Sigma elektrik

SWITCHGEAR BRAND OF **TÜRKİYE**

ORDER CATALOGUE



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1993

Company Profile

Since 1992, ÜNLÜ GRUP has been supporting Turkish economy by production and export in textile, construction and foreign trade in its 26,000 m^2 facility in Istanbul\Sancaktepe with more than 1500 employees. SİGMA ELEKTRİK, which entered electricity sector with automatic fuse production in 1993, continues its operations under ÜNLÜ GRUP since 2009 in its factory in Istanbul\Sancaktepe with more than 320 expert staffs.

SİGMA ELEKTRİK serves both Turkish and global markets with its domestic production since 1993.

Thanks to the power that comes from its expert staff, SİGMA ELEKTRİK serves Low Voltage Switchgear Products sector, mainly with Solar Products, LV Circuit Breakers, Miniature Circuit Breakers, Residual Current Circuit Breakers, LV Current Transformers, Fuse Switch Disconnectors, NH Fuses, Automatic Transfer Switches, LV Contactors and with other various LV Protection and Measurement Devices in seven regions of Türkiye through its dealership network. Besides, with a commitment to quality and competitive pricing, it has secured significant market shares through its distributors in more than 50 countries in Europe, South America, Africa, Asia, Australia and the Middle East.

SİGMA ELEKTRİK has also many government approvals for projects in and abroad, participating and being granted with approval certificates.

SİGMA ELEKTRİK as a global company participates every year in worldwide known fairs such as Frankfurt Light and Building Fair, Messe Hannover, Middle East Energy in Dubai, Asean Super 8 Fair in Malaysia, Elcom in Ukraine and many others.

SİGMA ELEKTRİK, having various quality certificates including especially TSE, has expanded the certificate range by attaining international ASTA certificate recently. In addition to those certificates, SİGMA ELEKTRİK executes all work processes under ISO9000 quality assurance. Quality and customer satisfaction are the priorities of SİGMA ELEKTRİK. Therefore, all input raw materials are tested in laboratories that possess the latest version of test instruments, according to international standards; only after they pass the regarding tests, they are dispatched to production. Likewise, process control is executed throughout the whole production phases in accordance with quality criteria, and the products are transferred to customers only after their final quality inspection just before the shipment.

NEW PRODUCT



Sigma Soligma Series LV Moulded Case Circuit Breakers “on page 218”

NEW PRODUCT



Sigma Soligma Series LV Air Circuit Breakers “on page 220”

NEW PRODUCT



800V AC String Inverter LV Surge Protection Devices “on page 225”

NEW PRODUCT



800V AC NH Fuses “on page 225”

NEW PRODUCT



800V AC Horizontal Type Fuse Switch Disconnectors “on page 224”

NEW PRODUCT



Ui:1000V LV Moulded Case Circuit Breakers “on page 211”

NEW PRODUCT



Adjustable Current-Voltage Protection Relay “on page 130”

NEW PRODUCT



Residential Type Automatic Transfer Switches “on page 77”

NEW PRODUCT



Changeover (Transfer) Switch “on page 84”

NEW PRODUCT



Manual Changeover (Transfer) Switch “on page 86”

NEW PRODUCT



SMP Series Thermal Magnetic Characteristic Motor Protection Switches “on page 167”

NEW PRODUCT



Summation Transformers “on page 194”

NEW PRODUCT



SCM Series 3 Pole Power Contactors and Accessories “on page 142”

NEW PRODUCT



Compensation Contactors (For SCM Series Contactors) “on page 205”

NEW PRODUCT



Delay Adjustable Electronic Thermal Relay “on page 157”

NEW PRODUCT



Ultra Fast Transfer Switches (RS485 Communication) **“on page 77”**

NEW PRODUCT



400V- 525V Heavy Duty Capacitors
400V- 525V Super Heavy Duty Capacitors
”on page 203”

NEW PRODUCT



2 Poles DC LV Moulded Case Circuit Breakers
”on page 211”

NEW PRODUCT



Split-Core Type Toroidal Current Transformers **”on page 25”**

NEW PRODUCT



New Air Circuit Breakers “on page 61”

CONTENTS

- LV Moulded Case Circuit Breakers
- Low Voltage Air Circuit Breakers
- Automatic Transfer Switches
- Fuse Switch Disconnectors
- Miniature Circuit Breakers
- Residual Current Circuit Breakers
- Modular Products
- LV Surge Protection Devices
- Power Contactors
- Rotary Cam Switches
- Motor Protection Switches
- LV Current Transformers
- Digital Measurement Devices
- Relays
- Compensation Products
- Ac and DC Renewable Energy Products

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LV MOULDED CASE
CIRCUIT BREAKERS

The most important function of compact switches, also known as circuit breakers, is to protect the circuit in short circuit and overload situations, as well as to enable on-off operations of the circuit. At the same time, when used with the combination of leakage current protection relays and toroidal transformers, they protect the circuit against leakage currents.

- 1, 2, 3 and 4 poles
- Rated currents from 16A to 2000A
- Up to 20kA to 150kA breaking capacities
- Thermal-magnetic adjustable and fixed type options
- Product versions with thermal-magnetic, residual current detection and electronic trip units
- Minimum short circuit breaking time thanks to Double Break design
- Additional protection and control functions thanks to their compatibility with accessories (motor mechanism, shunt trip release, undervoltage release, connection terminal block, extension bar set, rotary extension arm, rotary control arm, mechanical padlock apparatus, auxiliary contact, alarm contacts)
- Highly durable body design with BMC material

LV MCCB, Thermal-Magnetic Fixed Type - Technical Specifications

				A125	A160	A250	ALT250	ALT400	ALT630	ALT1250
Standard				IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2
Rated current (at 40°C)	In		A	20, 25, 32, 40, 50, 63, 80,100, 125	16, 20, 25, 32, 40, 50, 63, 80,100, 125, 160	200, 250	160, 200, 250	315, 400	500, 630	800, 1000, 1250
Number of poles				3 4	1 3 4	1	3 4	3 4	3 4	3 4
Rated operating voltage	Ue	V	AC	690V AC 250V DC	690V AC 250V DC	690V AC 250V DC	690V AC 250V DC	690V AC 250V DC	690V AC 250V DC	690V AC 250V DC
Rated insulation voltage	Ui	V	AC	750	750	750	1000	1000	1000	1000
Rated impulse with-stand voltage	Uimp	kV		8	8	8	8	8	8	8
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	7	8	12	12	12	12	15
			480-500V AC	8	10	15	15	15	15	20
			380-415V AC	20	25	36	36	36	36	50
			220-240V AC	30	35	50	50	50	50	65
			250V DC (3P series)	8	12	15	15	15	15	20
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	7	8	12	12	12	12	15
			480-500V AC	8	10	15	15	15	15	20
			380-415V AC	20	25	36	36	36	36	50
			220-240V AC	30	35	50	50	50	50	65
			250V DC (3P series)	8	12	15	15	15	15	20
Category				A	A	A	A	A	A	A
Pollution degree				3	3	3	3	3	3	3
Electrical life (No. operation)	ON-OFF		400/415 V AC	3.000	3.000	3.000	3.000	5.000	5.000	5.000
Mechanical life (No. operation)			ON-OFF	20.000	20.000	20.000	20.000	15.000	15.000	10.000
Thermal adjustment				Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Magnetic adjustment				Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Operating ambient temperature			°C	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60
Storage temperature			°C	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
Relative humidity			%	95	95	95	95	95	95	95

FIXED TYPE
LV CIRCUIT BREAKERS

ALT
SERIES

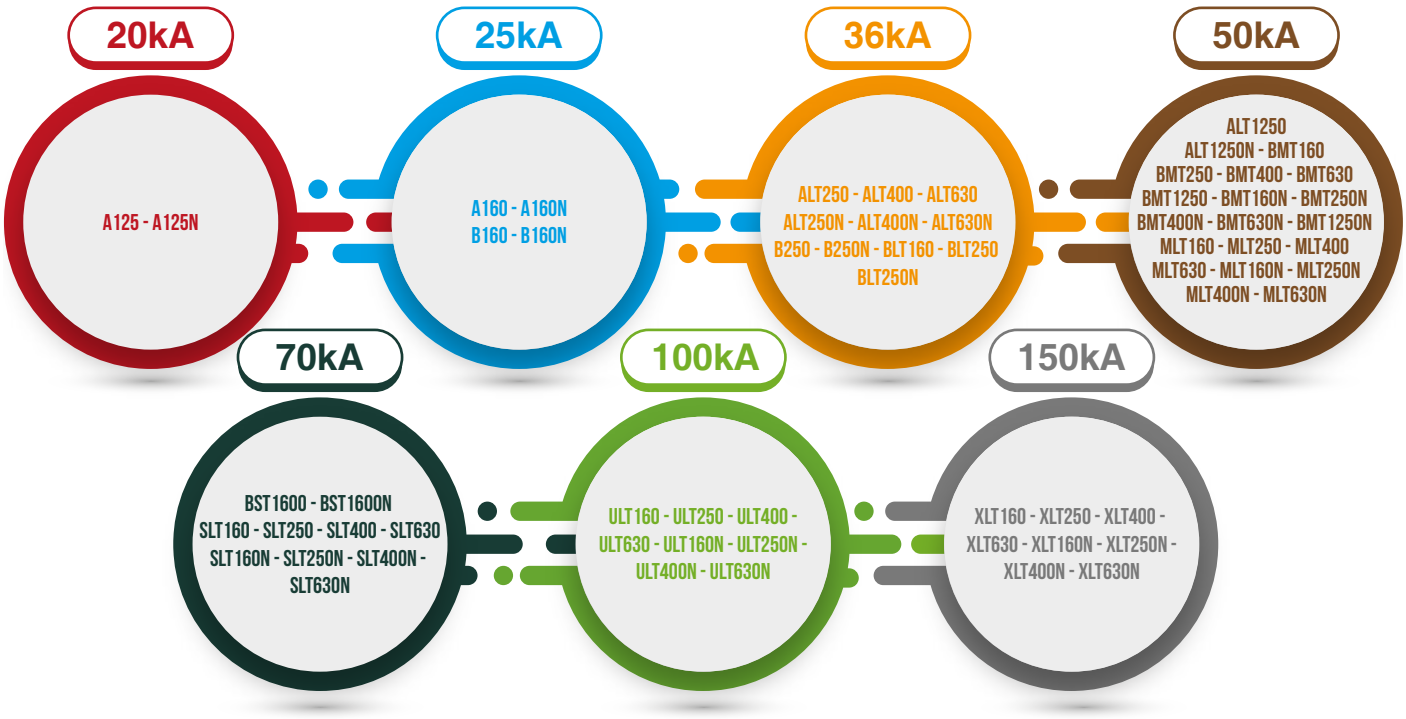


LV MCCB
Thermal-Magnetic Fixed Type

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LV MCCB, Thermal-Magnetic Adjustable Type - Technical Specifications

				B160	B250	BLT160	BLT250	BLT400
Standard				IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2	IEC / EN 60947-2
Rated current (at 40°C)	In		A	16,20, 25, 32, 40, 50, 63, 80, 100, 125, 160	100, 125, 160, 200, 250 / 200, 250	25, 32, 40, 50, 63, 80, 100, 125, 160	160, 200, 250	315, 400
Number of poles				2 / 3 / 4	3 / 4	3	3 / 4	3
Rated operating voltage	Ue	V	AC	690V AC / 250V DC	690V AC / 250V DC	690V AC - 250V DC		
Rated insulation voltage	Ui	V	AC	750	750	1000	1000	1000
Rated impulse Withstand voltage	Uimp	kV	AC	8	8	8	8	8
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	8	12	10	12	12
			480-500V AC	10	15	12	15	15
			380-415V AC	25	36	36	36	36
			220-240V AC	35	50	50	50	50
			250V DC (3P series)	12	15	15	15	15
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	8	12	10	12	12
			480-500V AC	10	15	12	15	15
			380-415V AC	25	36	36	36	36
			220-240V AC	35	50	50	50	50
			250V DC (3P series)	12	15	15	15	15
Category (IEC/EN 60947-2)				A	A	A	A	A
Pollution degree				3	3	3	3	3
Electrical life (No. operation)	ON - OFF		415V	3.000	3.000	3.000	3.000	5.000
Mechanical life (No. operation)	ON - OFF			20.000	20.000	20.000	20.000	15.000
Protection unit				Thermal Adjustable Magnetic Fixed		Thermal Adjustable Magnetic Adjustable		
Protection unit (power & network system protection)				Ir: (0,8-1)xIn; Im: 10xIn	Ir: (0,8-1)xIn; Im: 10xIn	Ir: (0,7-1)xIn Im: (5-10)xIn	Ir: (0,7-1)xIn Im: (5-10)xIn	Ir: (0,7-1)xIn Im: (5-10)xIn
Ambient operating temperature			°C	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60	-20 ... +60
Ambient storage temperature			°C	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
Relative humidity			%	95	95	95	95	95



BLT630	BMT160		BMT250		BMT400		BMT630		BMT1250		BST1600	
IEC / EN 60947-2	IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2	
500, 630	20, 25, 32, 40, 50, 63, 80, 100, 125, 160		200, 250		315, 400		500, 630		800, 1000, 1250		800, 1000, 1250, 1600	
3	3	4	3	4	3	4	3	4	3	4	3	4
690V AC - 250V DC	690V AC - 250V DC										380-415	
1000	1000		1000		1000		1000		1000		1000	
8	8		8		8		8		8		8	
12	15		15		15		15		15		20	
15	18		18		20		20		20		40	
36	50		50		50		50		50		70	
50	60		60		65		65		65		85	
15	20		20		20		20		20		30	
12	15		15		15		15		15		20	
15	18		18		20		20		20		40	
36	50		50		50		50		50		70	
50	60		60		65		65		65		85	
15	20		20		20		20		20		30	
A	A		A		A		A		A		A	
3	3		3		3		3		3		3	
5.000	5.000		5.000		5.000		5.000		5.000		5.000	
15.000	20.000		20.000		15.000		15.000		10,000		10.000	
Thermal Adjustable Magnetic Adjustable	Thermal Adjustable Magnetic Adjustable										Thermal Adjustable Magnetic Adjustable	
Ir: (0,7-1)xIn Im: (5-10)xIn	Ir: (0,7-1)xIn; Im: (5-10)xIn		Ir: (0,7-1)xIn; Im: (5-10)xIn		Ir: (0,7-1)xIn; Im: (5-10)xIn		Ir: (0,7-1)xIn; Im: (5-10)xIn		Ir: (0,7-1)xIn; Im: (5-10)xIn		Ir: (0,7-1)xIn Im: (7-10)xIn	
-20 ... +60	-20 ... +60		-20 ... +60		-20 ... +60		-20 ... +60		-20 ... +60		-20 ... +70	
-40 ... +80	-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80	
95%	95%		95%		95%		95%		95%		95%	

ADJUSTABLE TYPE
LV CIRCUIT BREAKERS

Earth Leakage Circuit Breakers - Technical Specifications

				H125		H250		H400	H630	G160N	G250N	G400N	G630N
Standard				IEC / EN 60947-2						IEC / EN 60947-2			
Number of poles				3	4	3	4	4	4	4	4	4	4
Rated current (at 40°C)	In		A	40, 50, 63, 80,100, 125	25, 32, 40, 50, 63, 80, 100, 125	160, 200, 250		315, 400	500, 630	25, 32, 40, 50, 63, 80, 100, 125, 160	200, 250	315, 400	500, 630
Sensitivity settings	IΔn		mA	30, 300, 500		30, 300, 500		30, 300, 500	30, 300, 500	30, 300, 500, 1000, 3000	30, 300, 500, 1000, 3000	30, 100, 500, 1000, 3000, 10000, 30000	30, 100, 500, 1000, 3000, 10000, 30000
Tripping time	IΔn		ms	100, 300, 1000		100, 300, 1000		100, 300, 1000	100, 300, 1000	100, 300, 500, 1000	100, 300, 500, 1000	60,150, 300, 1200, 4000	60,150, 300, 1200, 4000
Instantaneous tripping time			ms	<100		<100		<100	<100	<100	<100	<100	<100
Rated operating voltage	Ue	V	AC	690V AC / 250V DC		690V AC / 250V DC		690V AC / 250V DC		800	800	800	800
Rated insulation voltage	Ui	V	AC	690		690		690	690	1000	1000	1000	1000
Rated impulse withstand voltage	Uimp	kV	AC	8		8		8	8	8	8	8	8
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	8		12		12	12	15	15	15	15
			480-500V AC	10		15		15	15	20	20	20	20
			380-415V AC	25		36		36	36	50	50	50	50
			220-240V AC	35		50		50	50	70	70	70	70
			250V DC (3P series)	12		15		15	15	20	20	20	20
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	8		12		12	12	15	15	15	15
			480-500V AC	10		22		22	22	20	20	20	20
			380-415V AC	25		36		36	36	50	50	50	50
			220-240V AC	35		50		50	50	70	70	70	70
			250V DC (3P series)	12		15		15	15	20	20	20	20
Pollution degree				3		3		3	3	3	3	3	3
Electrical life (No. operation)	ON - OFF		400/415V AC	1.000		1.000		1.000	1.000	4.000-8.000	4.000-8.000	4.000-8.000	4.000-8.000
Mechanical life (No. operation)	ON - OFF			7.000		7.000		7.000	7.000	20.000	20.000	20.000	20.000
Protection unit				Thermal Adjustable Magnetic Fixed							Thermal Adjustable Magnetic Adjustable		
Rated short circuit breaking protection				Ir: (0,8-1)xIn Im: 10xIn		Ir: (0,8-1)xIn Im: 10xIn		Ir: (0,8-1)xIn Im: 10xIn		Ir: (0,7-1)xIn Im: 10xIn	Ir: (0,7-1)xIn Im: (5-10)xIn	Ir: (0,7-1)xIn Im: (5-10)xIn	Ir: (0,7-1)xIn Im: (5-10)xIn
Operating ambient temperature			°C	-20 ... +60		-20 ... +60		-20 ... +60		-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70
Storage temperature			°C	-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
Relative humidity			%	95		95		95		95	95	95	95

EARTH LEAKAGE
LV CIRCUIT BREAKERS

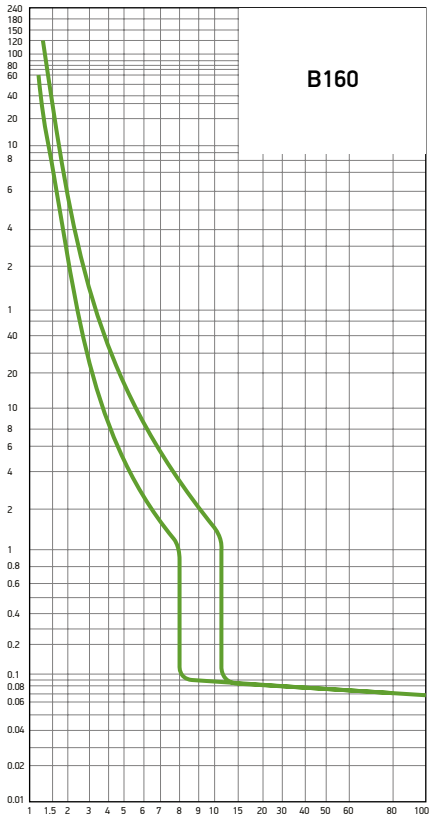
LV MCCB, Electronic Type - Technical Specifications

				BME160		BME250		BME400		BME630		BME1250		BSE1600		BSE2000	
Standard				IEC / EN 60947-2										IEC / EN 60947-2			
Number of poles				3	4	3	4	3	4	3	4	3	4	3	4	3	4
Rated current In (at 55°C)	In		A	63, 100, 160		250		400		630		800, 1000, 1250		800, 1000, 1250, 1600		2000	
Rated operating voltage	Ue	V	AC	400-415		400-415		400-415		400-415		400-415		380-415		380-415	
Rated insulation voltage	Ui	V	AC	1000		1000		1000		1000		1000		1000		1000	
Rated impulse Withstand voltage	Uimp	kV	AC	8		8		8		8		8		8		8	
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	15		15		15		15		15		20		20	
			480-500V AC	18		18		20		20		20		40		40	
			380-415V AC	50		50		50		50		50		70		70	
			220-240V AC	60		60		65		65		65		85		85	
			250V DC (3P series)	20		20		20		20		20		30		30	
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	15		15		15		15		15		20		20	
			480-500V AC	18		18		20		20		20		40		40	
			380-415V AC	50		50		50		50		50		70		70	
			220-240V AC	60		60		65		65		65		85		85	
			250V DC (3P series)	20		20		20		20		20		30		30	
Rated short-time withstand current for 1 Minute	Icw	kA		10		10		10		10		15		—		—	
Category (IEC/EN 60947-2)				B		B		B		B		B		B		B	
Pollution degree				3		3		3		3		3		3		3	
Electrical life (No. operation)	ON - OFF		415V	5.000		5.000		5.000		5.000		5.000		5.000		5.000	
Mechanical life (No. operation)	ON - OFF			20.000		20.000		15.000		15.000		10.000		10.000		10.000	
Protection unit				Electronic										Electronic			
Instantaneous Trip	Ii		A	(4-14)xIr										(4-12)xIr		(4-14)xIr	
Long time (thermal) protection	Ir		A	(0.4-1)xIn										(0.4-1)xIn+OFF			
Long-Time Delay	tr		sec	8 - 256										12-150		12-150	
Short time (magnetic) protection	Isd		A	(2-12)xIn										(4-12)xIn+OFF			
Short-Time Delay	Tsd		sec	0.05 - 0.3										0.1-0.4		0.05-0.3	
Ground fault protection	Tg		sec	—										(0.4-0.8) xIn+OFF		(0.6-1)xIn+OFF	
Ground fault protection time delay	Tg		sec	—										0,1-0,4		0,1-0,4	
Ambient operating temperature			°C	-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70	
Ambient storage temperature			°C	-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80	
Relative humidity			%	95		95		95		95		95		95		95	

ELECTRONIC TYPE
LV CIRCUIT BREAKERS

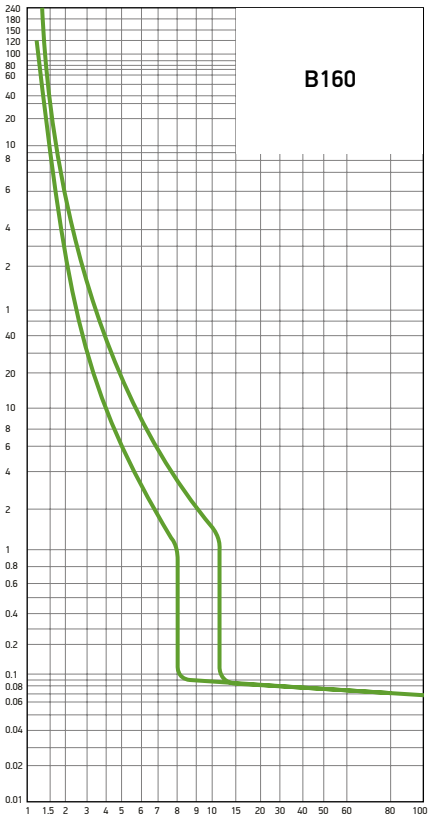
Time-Current Characteristic

16A~63A



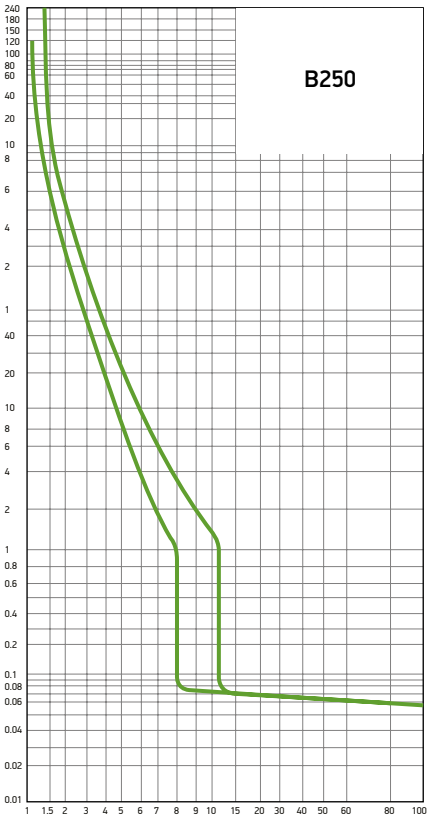
Attention: In≤32
Ii=400A(±%20)

80A~125A

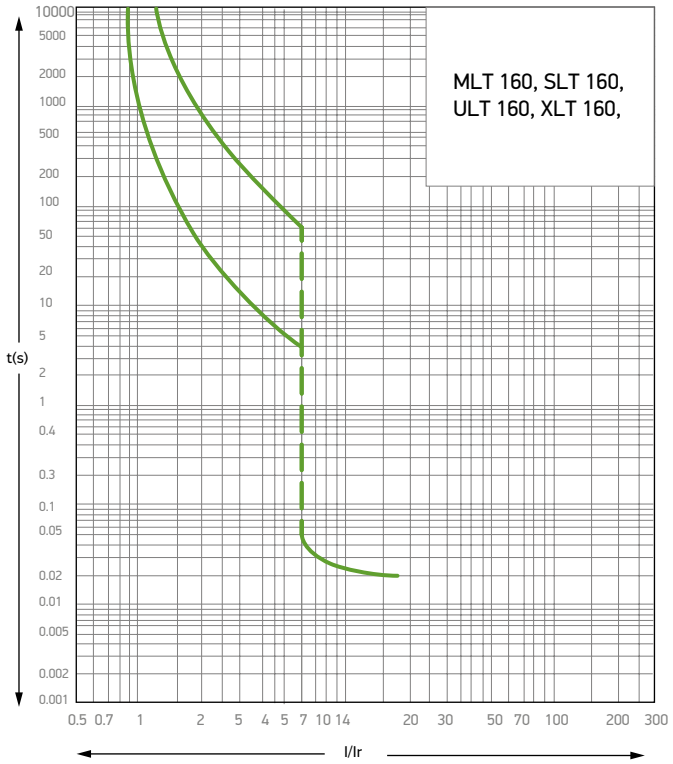


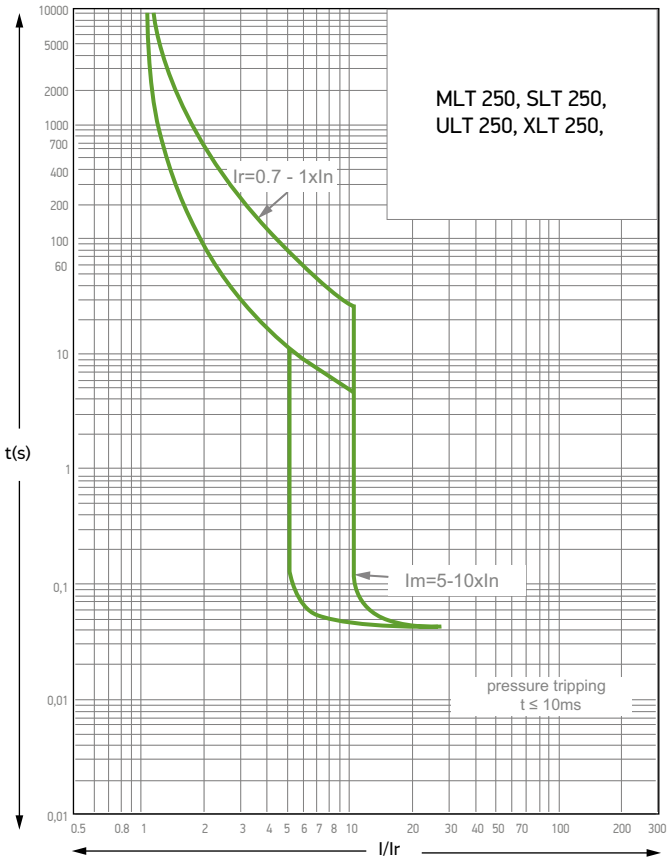
Attention: In>32
Ii=10*In(±%20)

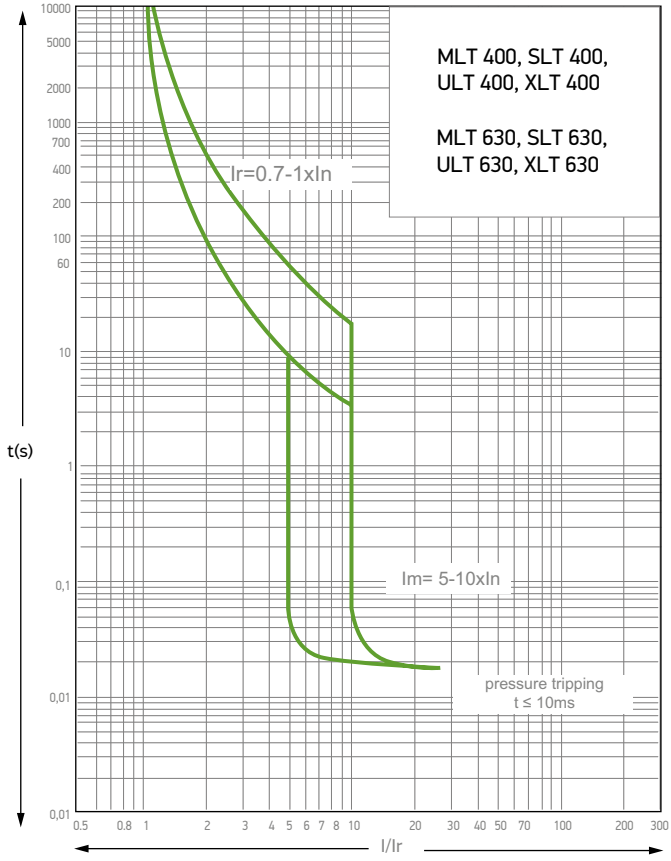
160A~250A

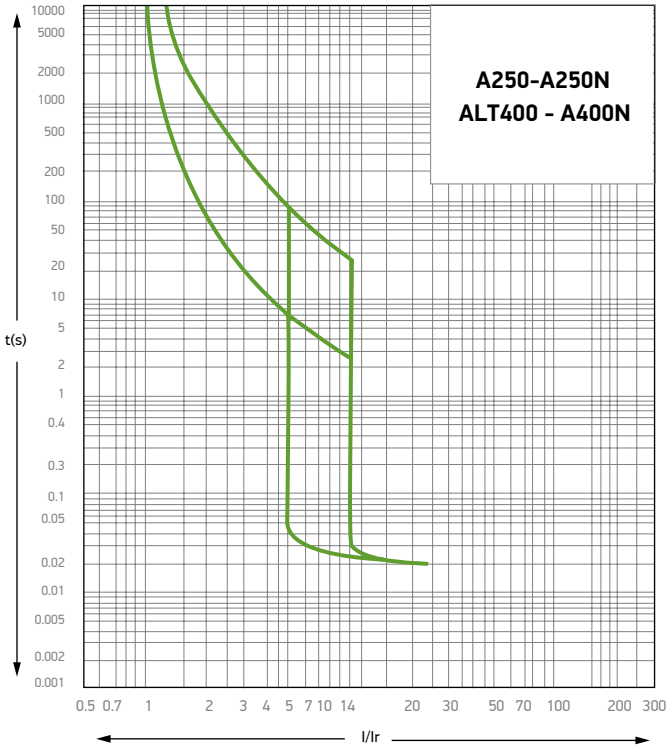


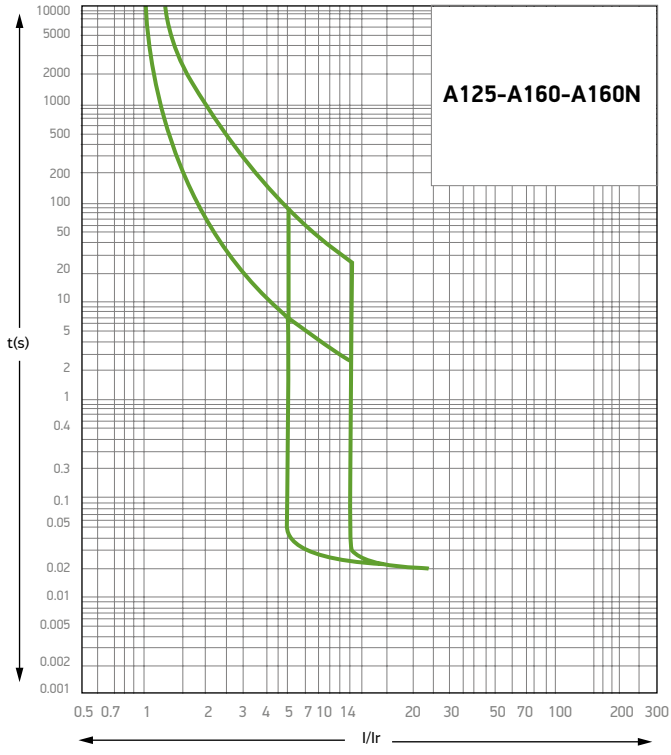
Attention: In>32
Ii=10*In(±%20)

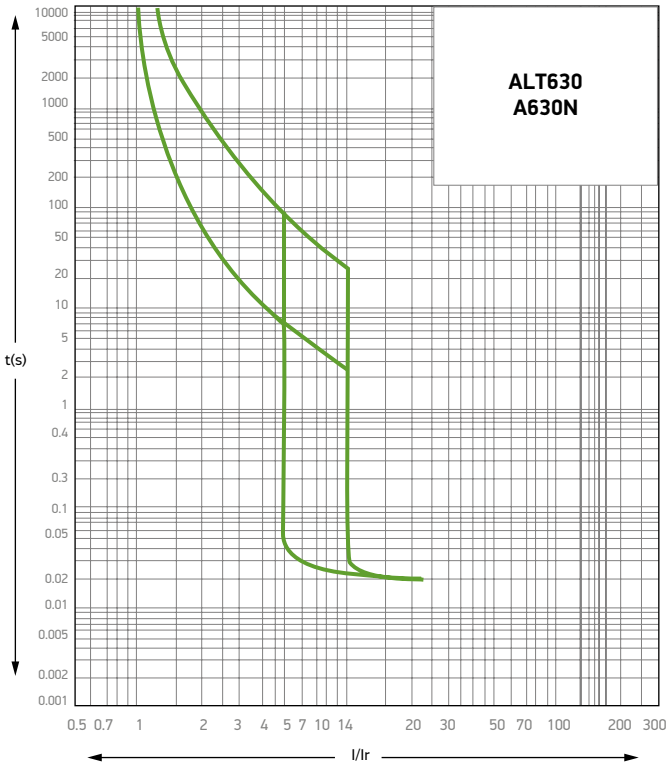




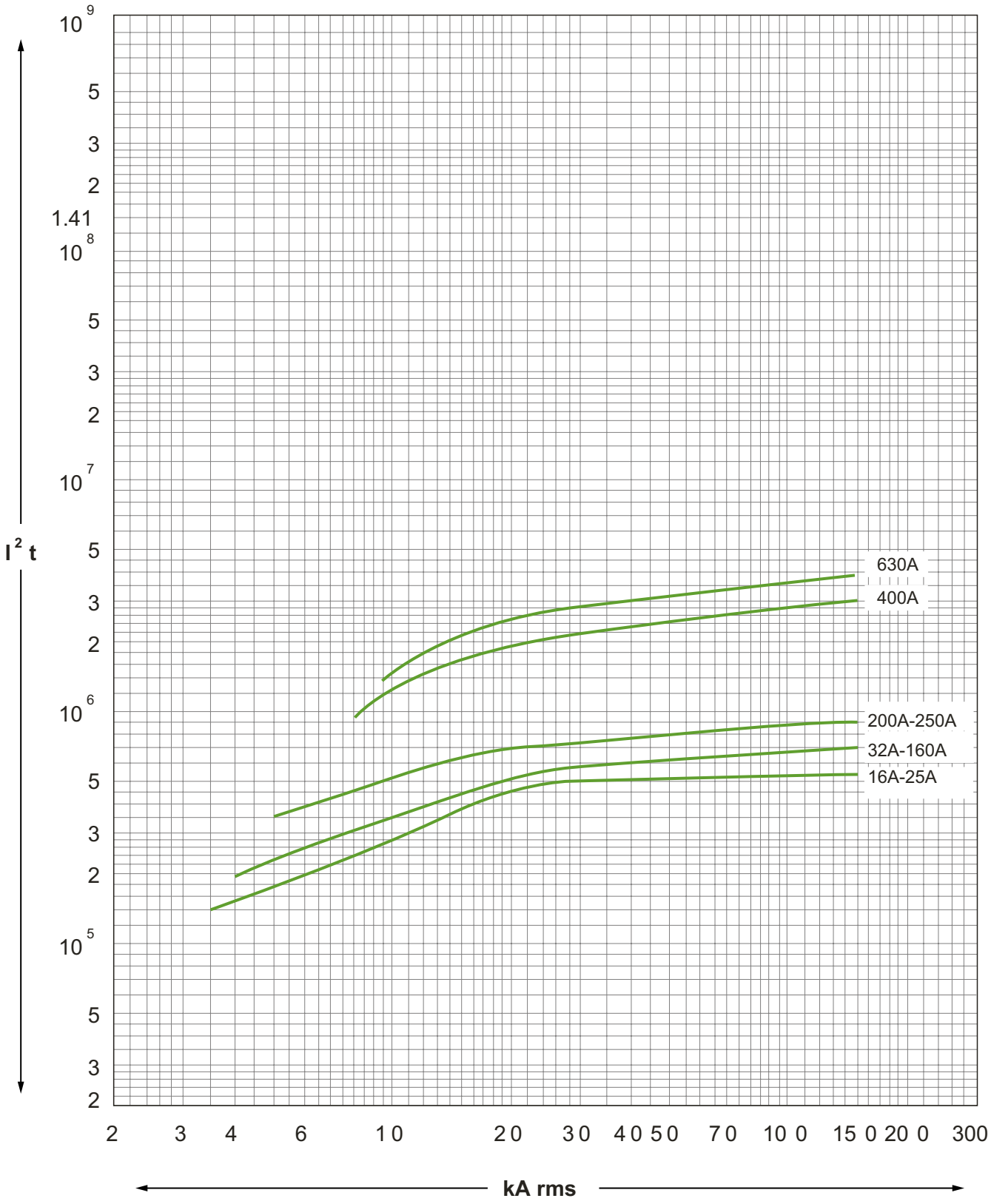

MLT 400, SLT 400,
ULT 400, XLT 400
MLT 630, SLT 630,
ULT 630, XLT 630
Ir=0.7-1xIn
Im= 5-10xIn
pressure tripping
t ≤ 10ms
t(s)
I/Ir


A250-A250N
ALT400 - A400N
t(s)
I/Ir


A125-A160-A160N
t(s)
I/Ir


ALT630
A630N
t(s)
I/Ir

MCCB I2T


10 9
5
3
2
1.41
10 8
5
3
2
10 7
5
3
2
10 6
5
3
2
10 5
5
3
2
I 2 t
630A
400A
200A-250A
32A-160A
16A-25A
2
3
4
6
10
20
30
40 50
70
10 0
15 0 20 0
300
kA rms

A Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
1 Poles - A Series Thermal Fixed Magnetic Fixed MCCB							
A160	16	Fixed	400A	25 kA	—	26	1A160016
	20			25 kA		26	1A160020
	25			25 kA		26	1A160025
	32			25 kA		26	1A160032
	40	Fixed	10xIn	25 kA		26	1A160040
	50			25 kA		26	1A160050
	63			25 kA		26	1A160063
	80			25 kA		26	1A160080
	100			25 kA		26	1A160100
	125			25 kA		26	1A160125
	160			25 kA		26	1A160160
A250	200	Fixed	10xIn	36 kA	—	26	1A250200
	250			36 kA		26	1A250250



2 Poles - A Series Thermal Fixed Magnetic Fixed MCCB							
A125	20	Fixed	10xIn	20 kA	—	24	2A125020
	25			20 kA		24	2A125025
	32			20 kA		24	2A125032
	40			20 kA		24	2A125040
	50			20 kA		24	2A125050
	63			20 kA		24	2A125063
	80			20 kA		24	2A125080
	100			20 kA		24	2A125100
	125			20 kA		24	2A125125



A160	20	Fixed	400A	25 kA	—	24	2A160020
	25			25 kA		24	2A160025
	32			25 kA		24	2A160032
	40		10xIn	25 kA		24	2A160040
	50			25 kA		24	2A160050
	63			25 kA		24	2A160063
	80			25 kA		24	2A160080
	100			25 kA		24	2A160100
	125			25 kA		24	2A160125
	160			25 kA		24	2A160160



3 Poles - A Series Thermal Fixed Magnetic Fixed MCCB							
A125	20	Fixed	10xIn	20 kA	A0125AB230AC	12	3A125020
	25			20 kA		12	3A125025
	32			20 kA		12	3A125032
	40			20 kA		12	3A125040
	50			20 kA		12	3A125050
	63			20 kA		12	3A125063
	80			20 kA		12	3A125080
	100			20 kA		12	3A125100
	125			20 kA		12	3A125125



A160	16	Fixed	400A	25 kA	B0160AB230AC	12	3A160016
	20			25 kA		12	3A160020
	25			25 kA		12	3A160025
	32			25 kA		12	3A160032
	40	Fixed	10xIn	25 kA		12	3A160040
	50			25 kA		12	3A160050
	63			25 kA		12	3A160063
	80			25 kA		12	3A160080
	100			25 kA		12	3A160100
	125			25 kA		12	3A160125
	160			25 kA		12	3A160160

A Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
4 Poles - A Series Thermal Fixed Magnetic Fixed MCCB							
A125N	20	Fixed	10xIn	20 kA	A0125AB230AC	6	4A125020
	25			20 kA		6	4A125025
	32			20 kA		6	4A125032
	40			20 kA		6	4A125040
	50			20 kA		6	4A125050
	63			20 kA		6	4A125063
	80			20 kA		6	4A125080
	100			20 kA		6	4A125100
	125			20 kA		6	4A125125



A160N	16	Fixed	400A	25 kA	B0160AB230AC	6	4A160016
	20			25 kA		6	4A160020
	25			25 kA		6	4A160025
	32			25 kA		6	4A160032
	40	Fixed	10xIn	25 kA		6	4A160040
	50			25 kA		6	4A160050
	63			25 kA		6	4A160063
	80			25 kA		6	4A160080
	100			25 kA		6	4A160100
	125			25 kA		6	4A160125
	160			25 kA		6	4A160160

ALT Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
3 Poles - ALT Series Thermal Fixed Magnetic Fixed MCCB							
ALT250	160	Fixed	10xIn	36 kA	BL0250AB230AC	6	3ALT250160
	200			36 kA		6	3ALT250200
	250			36 kA		6	3ALT250250
ALT400	315	Fixed	10xIn	36 kA	B0630AB230AC	2	3ALT400315
	400			36 kA		2	3ALT400400
ALT630	500	Fixed	10xIn	36 kA	B0630AB230AC	2	3ALT630500
	630			36 kA		2	3ALT630630
ALT1250	800	Fixed	10xIn	50 kA	BM1250AB230AC	2	3ALT1250080
	1000			50 kA		2	3ALT1250010
	1250			50 kA		2	3ALT1250012



4 Poles - ALT Series Thermal Fixed Magnetic Fixed MCCB							
ALT250N	160	Fixed	10xIn	36 kA	BL0250AB230AC	6	4ALT250160
	200			36 kA		6	4ALT250200
	250			36 kA		6	4ALT250250
ALT400N	315	Fixed	10xIn	36 kA	BM1250AB230AC	2	4ALT400315
	400			36 kA		2	4ALT400400
ALT630N	500	Fixed	10xIn	36 kA	BM1250AB230AC	2	4ALT630500
	630			36 kA		2	4ALT630630
ALT1250N	800	Fixed	10xIn	50 kA	BM1250AB230AC	1	4ALT1250080
	1000			50 kA		1	4ALT1250010
	1250			50 kA		1	4ALT1250012

B Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
2 Poles - B Series Thermal Adjustable Magnetic Fixed MCCB							
B160	16	(0.8-1)xIn	400A	25 kA	—	21	2B160016
	20			25 kA		21	2B160020
	25			25 kA		21	2B160025
	32			25 kA		21	2B160032
	40	(0.8-1)xIn	10xIn	25 kA		21	2B160040
	50			25 kA		21	2B160050
	63			25 kA		21	2B160063
	80			25 kA		21	2B160080
	100			25 kA		21	2B160100
	125			25 kA		21	2B160125
	160			25 kA		21	2B160160



3 Poles - B Series Thermal Adjustable Magnetic Fixed MCCB							
B160	16	(0.8-1)xIn	400A	25 kA	B0160AB230AC	8	3B160016
	20			25 kA		8	3B160020
	25			25 kA		8	3B160025
	32			25 kA		8	3B160032
	40	(0.8-1)xIn	10xIn	25 kA		8	3B160040
	50			25 kA		8	3B160050
	63			25 kA		8	3B160063
	80			25 kA		8	3B160080
	100			25 kA		8	3B160100
	125			25 kA		8	3B160125
	160			25 kA		8	3B160160



B250	100	(0.8-1)xIn	10xIn	36 kA	B0250AB230AC	4	3B250100
	125			36 kA		4	3B250125
	160			36 kA		4	3B250160
	200			36 kA		4	3B250200
	250			36 kA		4	3B250250

Note: B250 series is limited to stocks.



4 Poles - B Series Thermal Adjustable Magnetic Fixed MCCB							
B160N	16	(0.8-1)xIn	400A	25 kA	B0160AB230AC	8	4B160016
	20			25 kA		8	4B160020
	25			25 kA		8	4B160025
	32			25 kA		8	4B160032
	40	(0.8-1)xIn	10xIn	25 kA		8	4B160040
	50			25 kA		8	4B160050
	63			25 kA		8	4B160063
	80			25 kA		8	4B160080
	100			25 kA		8	4B160100
	125			25 kA		8	4B160125
	160			25 kA		8	4B160160



B250N	200	(0.8-1)xIn	10xIn	36 kA	B0250AB230AC	4	4B250200
	250			36 kA		4	4B250250

Note: B250N series is limited to stocks.

BLT Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
3 Poles - BLT Series Thermal Adjustable Magnetic Adjustable MCCB							
BLT160	25	(0.7-1)xIn	(5-10)xIn	36 kA	BL0160AB230AC	8	3BLT160025
	32			36 kA		8	3BLT160032
	40			36 kA		8	3BLT160040
	50			36 kA		8	3BLT160050
	63			36 kA		8	3BLT160063
	80			36 kA		8	3BLT160080
	100			36 kA		8	3BLT160100
	125			36 kA		8	3BLT160125
	160			36 kA		8	3BLT160160
BLT250	160	(0.7-1)xIn	(5-10)xIn	36 kA	BL0250AB230AC	4	3BLT250160
	200			36 kA		4	3BLT250200
	250			36 kA		4	3BLT250250
BLT400	315	(0.7-1)xIn	(5-10)xIn	36 kA	B0630AB230AC	2	3BLT400315
	400			36 kA		2	3BLT400400
BLT630	500	(0.7-1)xIn	(5-10)xIn	36 kA	B0630AB230AC	2	3BLT630500
	630			36 kA		2	3BLT630630
4 Poles - BLT Series Thermal Adjustable Magnetic Adjustable MCCB							
BLT250N	160	(0.7-1)xIn	(5-10)xIn	36 kA	BL0250AB230AC	4	4BLT250160
	200			36 kA		4	4BLT250200
	250			36 kA		4	4BLT250250



BMT Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Order Code
3 Poles - BMT Series Thermal Adjustable Magnetic Adjustable MCCB						
BMT160	20	(0.7-1)xIn	(5-10)xIn	50 kA	BM0160AB230AC	3BMT160020
	25			50 kA		3BMT160025
	32			50 kA		3BMT160032
	40			50 kA		3BMT160040
	50			50 kA		3BMT160050
	63			50 kA		3BMT160063
	80			50 kA		3BMT160080
	100			50 kA		3BMT160100
	125			50 kA		3BMT160125
	160			50 kA		3BMT160160
BMT250	200	(0.7-1)xIn	(5-10)xIn	50 kA	BM0250AB230AC	3BMT250200
	250			50 kA		3BMT250250
BMT400	315	(0.7-1)xIn	(5-10)xIn	50 kA	B0630AB230AC	3BMT400315
	400			50 kA		3BMT400400
BMT630	500	(0.7-1)xIn	(5-10)xIn	50 kA	B0630AB230AC	3BMT630500
	630			50 kA		3BMT630630
BMT1250	800	(0.7-1)xIn	(5-10)xIn	50 kA	BM1250AB230AC	3BMT125080
	1000			50 kA		3BMT125010
	1250			50 kA		3BMT125012



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Order Code
4 Poles - BMT Series Thermal Adjustable Magnetic Adjustable MCCB						
BMT160N	20	(0.7-1)xIn	(5-10)xIn	50 kA	BM0160AB230AC	4BMT160020
	25			50 kA		4BMT160025
	32			50 kA		4BMT160032
	40			50 kA		4BMT160040
	50			50 kA		4BMT160050
	63			50 kA		4BMT160063
	80			50 kA		4BMT160080
	100			50 kA		4BMT160100
	125			50 kA		4BMT160125
	160			50 kA		4BMT160160
BMT250N	200	(0.7-1)xIn	(5-10)xIn	50 kA	BM0250AB230AC	4BMT250200
	250			50 kA		4BMT250250
BMT400N	315	(0.7-1)xIn	(5-10)xIn	50 kA	BM1250AB230AC	4BMT400315
	400			50 kA		4BMT400400
BMT630N	500	(0.7-1)xIn	(5-10)xIn	50 kA	BM1250AB230AC	4BMT630500
	630			50 kA		4BMT630630
BMT1250N	800	(0.7-1)xIn	(5-10)xIn	50 kA	BM1250AB230AC	4BMT125080
	1000			50 kA		4BMT125010
	1250			50 kA		4BMT125012

BST Series Thermal - Magnetic MCCB (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Order Code
3 Poles - BST Series Thermal Adjustable Magnetic Adjustable MCCB						
BST1600	800	(0.7-1)xIn	(7-10)xIn	70 kA	BS1600AB230AC	3BST160080
	1000			70 kA		3BST160010
	1250			70 kA		3BST160012
	1600			70 kA		3BST160016
4 Poles - BST Series Thermal Adjustable Magnetic Adjustable MCCB						
BST1600N	800	(0.7-1)xIn	(7-10)xIn	70 kA	BS1600AB230AC	4BST160080
	1000			70 kA		4BST160010
	1250			70 kA		4BST160012
	1600			70 kA		4BST160016

BMT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection) (Ics:100%Icu)



Type Code	Rated Current In (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Order Code
3 Poles - BMT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)				
BMT160	20	(5-10)xIn	50 kA	3BMT160020M
	25		50 kA	3BMT160025M
	32		50 kA	3BMT160032M
	40		50 kA	3BMT160040M
	50		50 kA	3BMT160050M
	63		50 kA	3BMT160063M
	80		50 kA	3BMT160080M
	100		50 kA	3BMT160100M
	125		50 kA	3BMT160125M
	160		50 kA	3BMT160160M
BMT250	200	(5-10)xIn	50 kA	3BMT250200M
	250		50 kA	3BMT250250M
BMT400	315	(5-10)xIn	50 kA	3BMT400315M
	400		50 kA	3BMT400400M
BMT630	500	(5-10)xIn	50 kA	3BMT630500M
	630		50 kA	3BMT630630M
BMT1250	800	(5-10)xIn	50 kA	3BMT125080M
	1000		50 kA	3BMT125010M
	1250		50 kA	3BMT125012M



4 Poles - BMT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)				
BMT160N	20	(5-10)xIn	50 kA	4BMT160020M
	25		50 kA	4BMT160025M
	32		50 kA	4BMT160032M
	40		50 kA	4BMT160040M
	50		50 kA	4BMT160050M
	63		50 kA	4BMT160063M
	80		50 kA	4BMT160080M
	100		50 kA	4BMT160100M
	125		50 kA	4BMT160125M
	160		50 kA	4BMT160160M
BMT250N	200	(5-10)xIn	50 kA	4BMT250200M
	250		50 kA	4BMT250250M
BMT400N	315	(5-10)xIn	50 kA	4BMT400315M
	400		50 kA	4BMT400400M
BMT630N	500	(5-10)xIn	50 kA	4BMT630500M
	630		50 kA	4BMT630630M
BMT1250N	800	(5-10)xIn	50 kA	4BMT125080M
	1000		50 kA	4BMT125010M
	1250		50 kA	4BMT125012M

BST Series Magnetic MCCB (Magnetic Protection - without Thermal Protection) (Ics:100%Icu)



Type Code	Rated Current In (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - BST Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)					
BST1600	1600	(7-10)xIn	70 kA	1	3BST160016M

4 Poles - BST Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)					
BST1600N	1600	(7-10)xIn	70 kA	1	4BST160016M

3 Poles - MLT Series Thermal Magnetic MCCB (for Motor Protection) (Ics:100%Icu)



Type Code	Rated Current In (A)	Thermal Adj. Current (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
MLT160	25	(0.7-1)xIn	15xIn	50 kA	K0250AB230AC K0250AB030DC	8	3MLT160025MK
	32			50 kA		8	3MLT160032MK
	40			50 kA		8	3MLT160040MK
	50			50 kA		8	3MLT160050MK
	63			50 kA		8	3MLT160063MK
	80			50 kA		8	3MLT160080MK
	100			50 kA		8	3MLT160100MK
	125			50 kA		8	3MLT160125MK
	160			50 kA		8	3MLT160160MK
MLT250	100	(0.7-1)xIn	15xIn	50 kA	K0250AB230AC K0250AB030DC	6	3MLT250100MK
	125			50 kA		6	3MLT250125MK
	160			50 kA		2	3MLT250160MK
	200		(9-14)xIn	50 kA		2	3MLT250200MK
	250			50 kA		2	3MLT250250MK
MLT400	315	(0.7-1)xIn	(9-14)xIn	50 kA	K0250AB230AC K0250AB030DC	2	3MLT400315MK
	400			50 kA		2	3MLT400400MK
MLT630	500	(0.7-1)xIn	(9-14)xIn	50 kA	K0250AB230AC K0250AB030DC	2	3MLT630500MK
	630			50 kA		2	3MLT630630MK



BME Series Electronic MCCB (Ics:100%Icu)



Type Code	Usage Category	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - BME Series Electronic MCCB - Adjustable							
BME160	B	63	(0.4-1)xIn	(2-12)xIn	50 kA	6	3BME160063
	B	100			50 kA	6	3BME160100
	B	160			50 kA	6	3BME160160
BME250	B	250	(0.4-1)xIn	(2-12)xIn	50 kA	6	3BME250250
BME400	B	400	(0.4-1)xIn	(2-12)xIn	50 kA	6	3BME400400
BME630	B	630	(0.4-1)xIn	(2-12)xIn	50 kA	6	3BME630630
BME1250	B	800	(0.4-1)xIn	(2-12)xIn	50 kA	1	3BME125080
	B	1000			50 kA	1	3BME125010
	B	1250			50 kA	1	3BME125012



4 Poles - BME Series Electronic MCCB - Adjustable							
BME160N	B	63	(0.4-1)xIn	(2-12)xIn	50 kA	6	4BME160063
	B	100			50 kA	6	4BME160100
	B	160			50 kA	6	4BME160160
BME250N	B	250	(0.4-1)xIn	(2-12)xIn	50 kA	6	4BME250250
BME400N	B	400	(0.4-1)xIn	(2-12)xIn	50 kA	6	4BME400400
BME630N	B	630	(0.4-1)xIn	(2-12)xIn	50 kA	6	4BME630630
BME1250N	B	800	(0.4-1)xIn	(2-12)xIn	50 kA	1	4BME125080
	B	1000			50 kA	1	4BME125010
	B	1250			50 kA	1	4BME125012

BSE Series Electronic MCCB - (LSIG Protected) (Ics:100%Icu)



Type Code	Usage Category	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	LSIG Protection	Pcs in a Box	Order Code
3 Poles - BSE Series Electronic MCCB - Adjustable								
BSE1600	B	800	(0.4-1)xIn	(2-10)xIn	70 kA	✓	1	3BSE160080
	B	1000			70 kA	✓	1	3BSE160010
	B	1250			70 kA	✓	1	3BSE160012
	B	1600			70 kA	✓	1	3BSE160016
BSE2000	B	2000	(0.4-1)xIn	(2-12)xIn	70 kA	–	1	3BSE200020



4 Poles - BSE Series Electronic MCCB - Adjustable								
BSE1600N	B	800	(0.4-1)xIn	(2-10)xIn	70 kA	✓	1	4BSE160080
	B	1000			70 kA	✓	1	4BSE160010
	B	1250			70 kA	✓	1	4BSE160012
	B	1600			70 kA	✓	1	4BSE160016
BSE2000N	B	2000	(0.4-1)xIn	(2-12)xIn	70 kA	–	1	4BSE200020

Undervoltage Release

Applicable MCCB	Coil Voltage	Order Code
BLT160	400V AC	**BL0160DG400AC**
ALT250, BLT250, ALT250N, BLT250N	400V AC	**BL0250DG400AC**
BMT160, BME160, BMT160N, BME160N	400V AC	**BM0160DG400AC**
BMT250, BME250, BMT250N, BME250N	400V AC	**BM0250DG400AC**
ALT400, ALT630, BLT400, BLT630, BMT400, BMT630	400V AC	**B0630DG400AC**
ALT400N, ALT630N, BME400, BME630, BMT400N, BMT630N, BME400N, BME630N, BMT1250, BME1250, BMT1250N, BME1250N, ALT1250, ALT1250N, BLT400N, BLT630N	400V AC	**BM1250DG400AC**
BST1600, BST1600N, BSE1600, BSE1600N	400V AC	**BS1600DG400AC**
BST1600, BST1600N, BSE1600, BSE1600N	230V AC	**BS1600DG230AC**
BSE2000	400V AC	**BE2000DG400AC**

Note: It is not possible to use a undervoltage release and a shunt trip release simultaneously.

Shunt Trip Release

Applicable MCCB	Coil Voltage	Order Code
B160, B160N, A160, A160N	230V AC	**B0160AB230AC**
B250, B250N, A250, A250N	230V AC	**B0250AB230AC**
BMT160, BME160, BMT160N, BME160N	230V AC	**BM0160AB230AC**
A125, A125N	230V AC	**A0125AB230AC**
BMT250, BMT250N, BME250, BME250N	230V AC	**BM0250AB230AC**
BLT160	230V AC	**BL0160AB230AC**
ALT400, ALT630, BLT400, BLT630, BMT400, BMT630	230V AC	**B0630AB230AC**
ALT250, BLT250, ALT250N, BLT250N	230V AC	**BL0250AB230AC**
BLT400N, BLT630N, ALT400N, ALT630N, BME400, BME630, BMT400N, BMT630N, BME400N, BME630N, BMT1250, BME1250, BMT1250N, BME1250N, ALT1250, ALT1250N	230V AC	**BM1250AB230AC**
BSE2000	230V AC	**BE2000AB230AC**
BST1600, BST1600N, BSE1600, BSE1600N	230V AC	**BS1600AB230AC**

Auxiliary Contact

Applicable MCCB	Auxiliary Contact	Order Code
A125, A125N	1NO+1NC	**A0125YK**
B160, B160N, B250, B250N, A160, A160N, A250, A250N	1NO+1NC	**B0250YK**
BMT160, BME160, BMT160N, BME160N	1NO+1NC	**BM0160YK**
BMT250, BME250, BMT250N, BME250N	1NO+1NC	**BM0250YK**
B160, B160N, B250, B250N, A160, A160N, A250, A250N	2NO+2NC	**B0250YL**
BLT160	1NO+1NC	**BL0160YK**
ALT250, BLT250, ALT250N, BLT250N	1NO+1NC	**BL0250YK**
ALT400, ALT630, BLT400, BLT630	1NO+1NC	**B0630YK**
	2NO+2NC	**B0630YL**
BLT400N, BLT630N, ALT400N, ALT630N, BME400, BME630, BMT400N, BMT630N, BME400N, BME630N, BMT1250, BME1250, BMT1250N, BME1250N, BMT400, BMT630, ALT1250, ALT1250N	1NO+1NC	**BM1250YK**
BSE2000	1NO+1NC	**BE2000YK**
BST1600, BST1600N, BSE1600, BSE1600N	1NO+1NC	**BS1600YK**

Rotary Handle (Direct Assembly)

Applicable MCCB	Order Code
BST1600, BST1600N, BSE1600, BSE1600N	**BS1600DU**

Alarm Contacts - 1NO+1NC

Applicable MCCB	Order Code
B160, B160N, B250, B250N, A160, A160N, A250, A250N	**B0250AK**
BMT160, BME160, BMT160N, BME160N	**BM0160AK**
BLT160	**BL0160AK**
ALT250, BLT250, ALT250N, BLT250N	**BL0250AK**
ALT400, ALT630, BLT400, BLT630, BMT400, BMT630	**B0630AK**
BLT400N, BLT630N, ALT400N, ALT630N, BME400, BME400N, BME630, BME630N, BMT400N, BMT630N, ALT1250, ALT1250N, BMT1250, BMT1250N, BME1250, BME1250N	**BM1250AK**
BST1600, BST1600N, BSE1600, BSE1600N	**BS1600AK**
BSE2000	**BE2000AK**

Extension Bus Bar Set (6-8 Pcs/Set)

Applicable MCCB	Pcs	Order Code
A160, B160, BLT160	6	**B0160UB**
A160N, B160N	8	**B0160UN**
ALT250, BLT250, BMT250, BME250	6	**K0250UB**
ALT250N, BLT250N, BMT250N, BME250N	8	**K0250UN**
ALT400, BMT400, BME400, BLT400	6	**A0400UB**
for 800A; ALT1250, BMT1250	6	**BMT0800UB**
for 1000-1250A; ALT1250, BMT1250	6	**BMT1250UB**
ALT400N, BMT400N, BME400N, BLT400N,	8	**A0400UN**
ALT630, BMT630, BME630, BLT630	6	**K0630UB**
for 800A; ALT1250N, BMT1250N	8	**BMT0800UN**
for 1000-1250A; ALT1250N, BMT1250N	8	**BMT1250UN**
ALT630N, BMT630N, BME630N, BLT630N	8	**K0630UN**
BST1600, BSE1600	6	**BS1600UB**
BST1600N, BSE1600N	8	**BS1600UN**

Motor Operator - 230V AC

Applicable MCCB	Order Code
BLT160	**BL0160MM**
BME160, BME160N, BMT160, BMT160N	**BM0160MM**
ALT250, BLT250, ALT250N, BLT250N	**BL0250MM**
BMT250, BMT250N, BME250, BME250N	**BM0250MM**
(800A) ALT1250, ALT1250N, BMT1250, BMT1250N	**BM0800MM**
BLT400N, BLT630N, BME400, BME400N, BME630, BME630N, BMT400N, BMT630N, ALT400N, ALT630N	**BM0630MM**
ALT400, ALT630, BLT400, BLT630, BMT400, BMT630	**B0630MM**
(1000-1250A) ALT1250, ALT1250N, BMT1250, BMT1250N, BME1250, BME1250N	**BM1250MM**
BST1600, BST1600N, BSE1600, BSE1600N	**BS1600MM**
BSE2000	**BE2000MM**

Extension Rotary Handle (with extension shaft)

Applicable MCCB	Order Code
BLT160	**BL0160DK**
ALT250, BLT250, ALT250N, BLT250N	**BL0250DK**
ALT400, ALT630, BLT400, BLT630, BMT400, BMT630	**B0630DK**
BME160, BME160N, BMT160, BMT160N	**BM0160DK**
BMT250, BME250, BMT250N, BME250N	**BM0250DK**
BME400, BME630, BMT400N, BMT630N, BME400N, BME630N, BLT400N, BLT630N	**BM0630DK**
ALT1250, ALT1250N, BMT1250, BME1250, BMT1250N, BME1250N	**BM1250DK**
BST1600, BST1600N, BSE1600, BSE1600N	**BS1600DK**
BSE2000	**BE2000DK**

Earth Leakage MCCB (with Shunt Trip Release) - Adjustable (Ics:100%Icu)



Type Code	Rated Current (A)	Breaking Capacity (Icu)	Thermal Adj. Current Ir (A)	Residual Current IΔn (mA)	Tripping Time (s)	Pcs in a Box	Order Code
3 Poles - Earth Leakage MCCB (with Shunt Trip Release) - Adjustable (Fire Protection)							
H125	40	36 kA	(0.8-1)xIn	30-300-500	0.1-0.3-1	8	3J125040
	50	36 kA				8	3J125050
	63	36 kA				8	3J125063
	80	36 kA				8	3J125080
	100	36 kA				8	3J125100
	125	36 kA				8	3J125125
H250	160	36 kA	(0.8-1)xIn	30-300-500	0.1-0.3-1	4	3J250160
	200	36 kA				4	3J250200
	250	36 kA				4	3J250250



4 Poles - Earth Leakage MCCB (with Shunt Trip Release) - Adjustable (Fire Protection)							
H125N	25	36 kA	(0.8-1)xIn	30-300-500	0.1-0.3-1	8	4J125025
	32	36 kA				8	4J125032
	40	36 kA				8	4J125040
	50	36 kA				8	4J125050
	63	36 kA				8	4J125063
	80	36 kA				8	4J125080
	100	36 kA				8	4J125100
	125	36 kA				8	4J125125
H250N	160	36 kA	(0.8-1)xIn	30-300-500	0.1-0.3-1	4	4J250160
	200	36 kA				4	4J250200
	250	36 kA				4	4J250250
H400N	315	36 kA	Fixed	30-300-500	0.1-0.3-1	2	4J400315
	400	36 kA				2	4J400400
H630N	500	36 kA	Fixed	30-300-500	0.1-0.3-1	2	4J630500
	630	36 kA				2	4J630630

Earth Leakage MCCB (with Shunt Trip Release) - Adjustable (Ics:100%Icu)



Type Code	Rated Current (A)	Breaking Capacity Icu/Ics (kA)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Residual Current IΔn (mA)	Tripping Time (s)	Order Code
4 Poles - Earth Leakage MCCB (with Shunt Trip Release) - Adjustable							
MLT160N	25	50 kA	(0.7-1)xIn	10xIn	0,03-0,3-0,5-1-3	0-100-500-1000	4G160025
	32	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160032
	40	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160040
	50	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160050
	63	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160063
	80	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160080
	100	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160100
	125	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160125
	160	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G160160
MLT250N	200	50 kA	(0.7-1)xIn	(5-10)xIn	0,03-0,3-0,5-1-3	0-100-500-1000	4G250200
	250	50 kA			0,03-0,3-0,5-1-3	0-100-500-1000	4G250250
MLT400N	315	50 kA	(0.7-1)xIn	(5-10)xIn	0,03-0,1-0,3-0,5-1-3-10-30	0-0,06-0,15-0,3-0,5-0,8-1,2-4	4G400315
	400	50 kA			0,03-0,1-0,3-0,5-1-3-10-30	0-0,06-0,15-0,3-0,5-0,8-1,2-4	4G400400
MLT630N	500	50 kA	(0.7-1)xIn	(5-10)xIn	0,03-0,1-0,3-0,5-1-3-10-30	0-0,06-0,15-0,3-0,5-0,8-1,2-4	4G630500
	630	50 kA			0,03-0,1-0,3-0,5-1-3-10-30	0-0,06-0,15-0,3-0,5-0,8-1,2-4	4G630630



Earth Leakage Detection Relay

Type Code	Threshold Current (A)	Delay Time (s)	Tripping Time (s)	Pcs in a Box	Order Code
SAR-103LE	A	0,03 - 30	0,05-3	48	SAR103LE
SAR-53LE	F (with harmonic filter)	0,03 - 30	0-10 (Does not cover below 30mA)	48	SAR53LE

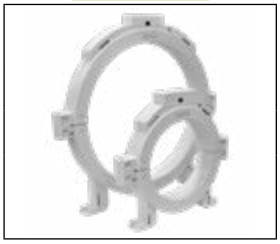
Toroidal Current Transformers



Type Code	Type	Inner Diameter Φ (mm)	Pcs in a Box	Order Code
ST-80	Toroidal	80	40	ST080
ST-110	Toroidal	110	30	ST110
ST-160	Toroidal	160	15	ST160
ST-210	Toroidal	210	12	ST210
ST-300	Toroidal	300	1	ST300
ST-280x115	Rectangle	280x115	1	STD280
ST-470x160	Rectangle	470x160	1	STD470

Note: Toroidal Current Transformers should be ordered with SAR-103LE and SAR-53LE Earth Leakage Protection Relay.

New Product!



Split-Core Type Toroidal Current Transformers

Type Code	Type	Inner Diameter Φ (mm)	Pcs in a Box	Order Code
STA-110	Toroidal (Split-Core)	110	1	STA-110
STA-210	Toroidal (Split-Core)	210	1	STA-210

Type	Inner Diameter	Type Code	Suitable MCCB	Connection via Cable	Connection with the Bar
Toroidal	80	ST-80	A125, A160, A160N, B160, B160N, BMT160, BLT160, MLT160, MLT160N, SLT160, SLT160N, ULT160, ULT160N, XLT160, XLT160N, BME160, BME160N, MLE160, MLE160N, SLE160, SLE160N, ULE160, ULE160N, XLE160, XLE160N	4x70mm²	
	110	ST-110	ALT250, ALT250N, B250, B250N, BLT250, BLT250N, BMT250, BMT250N, MLT250, MLT250N, SLT250, SLT250N, ULT250, ULT250N, XLT250, XLT250N, BME250, BME250N, MLE250, MLE250N, SLE250, SLE250N, ULE250, ULE250N, XLE250, XLE250N	8x120mm²	
	160	ST-160	ALT400, ALT400N, BMT400, BMT400N, MLT400, MLT400N, SLT400, SLT400N, ULT400, ULT400N, XLT400, XLT400N, BME400, BME400N, MLE400, MLE400N, SLE400, SLE400N, ULE400, ULE400N, XLE400, XLE400N	8x240mm²	
	210	ST-210	ALT630, ALT630N, BLT630, BLT630N, BMT630, BMT630N, MLT630, MLT630N, SLT630, SLT630N, ULT630, ULT630N, XLT630, XLT630N, BME630, BME630N, MLE630, MLE630N, SLE630, SLE630N, ULE630, ULE630N, XLE630, XLE630N	16x185mm²	2x40x5mm for each pole (max. 630A)
	300	ST-300	BMT1250, BMT1250N, BME1250, BME1250N, BST1600, BST1600N, BSE1600, BSE1600N		For each pole: 2x50x5mm (max. 800A), 2x60x5mm (max. 1000A), 2x80x5mm (max. 1250A), 2x100x5mm (max. 1600A)
Split-Core Type Toroidal	110	STA-110	A125, A125N, A160, A160N, ALT250, ALT250N, B160, B160N, B250, B250N, BMT160, BMT160N, MLT160, MLT160N, SLT160, SLT160N, ULT160, ULT160N, XLT160, XLT160N, BME160, BME160N, MLE160, MLE160N, SLE160, SLE160N, ULE160, ULE160N, XLE160, XLE160N, MLT250, MLT250N, SLT250, SLT250N, ULT250, ULT250N, XLT250, XLT250N, BME250, BME250N, MLE250, MLE250N, SLE250, SLE250N, ULE250, ULE250N, XLE250, XLE250N	8x120mm²	
	210	STA-210	ALT630, ALT630N, BLT630, BLT630N, BMT630, BMT630N, MLT630, MLT630N, SLT630, SLT630N, ULT630, ULT630N, XLT630, XLT630N, BME630, BME630N, MLE630, MLE630N, SLE630, SLE630N, ULE630, ULE630N, XLE630, XLE630N, ALT1250(800A), ALT1250N(800A), BMT1250(800A), BMT1250N(800A),	16x240mm²	For each pole: 2x40x5mm (max. 630A), 2x50x5mm (max. 800A)
Rectangle	280x115	STD280	ALT1250, ALT1250N, BMT1250, BMT1250N, BME1250, BME1250N, BST1600, BST1600N, BSE1600, BSE1600N		2x60x5mm (max. 1000A) for each pole, 2x80x5mm (max. 1250A), 2x100x5mm (max. 1600A)
	470x160	STD470	BSE2000, BSE2000N, SFA1600, SFA2000, SFA1600N, SFA2000N, SFA2500, SFA3200, SDA1000, SDA1250, SDA1600, SDA2000, SFA-3200, SFA-4000, SFA-6300, SDA-3200, SDA-4000, SDA-6300		2x60x5mm (max. 1000A) for each pole, 2x80x5mm (max. 1250A), 2x100x5mm (max. 1600A), 3x100x5 (max. 2000A), 4x100x5 (max. 2000A), 3x100x10 (max. 3200A)

Cable Connection Terminals

New Product!

MCCB Type	Material	Number of Cable Connections	Cable Range (mm²)	Tightening Torque (N.M)	Order Code
MLT160 - MLT250 SLT160 - SLT250 ULT160 - ULT250 XLT160 - XLT250	Aluminium	1	Ø16 - 95	10	KBTA0250001695
	Aluminium	6	Ø10 - 35	6	KBTA0250001035
	Aluminium	1	Ø50 - 240	25	KBTA0250050240
	Aluminium	2	Ø25 - 150	25	KBTA0250025150
MLT400 - MLT630 SLT400 - SLT630 ULT400 - ULT630 XLT400 - XLT630 ALT400 - ALT630 BLT400 - BLT630 BMT400 - BMT630 BME400 - BME630	Aluminium	1	Ø120 - 300	25	KBTA0630000240
	Aluminium	2	Ø35 - 95	10	KBTA063000359-2
	Aluminium	2	Ø120 - 240	25	KBTA0630120240-2
	Aluminium	4	Ø35 - 95	10	KBTA0630003595
	Aluminium	2	Ø120 - 240	25	KBTA0630120240-3

KBTA0250001695	KBTA0250001035	KBTA0250050240	KBTA0250025150	KBTA0630000240	KBTA063000359-2	KBTA0630120240-2	KBTA0630003595	KBTA0630120240-3
								

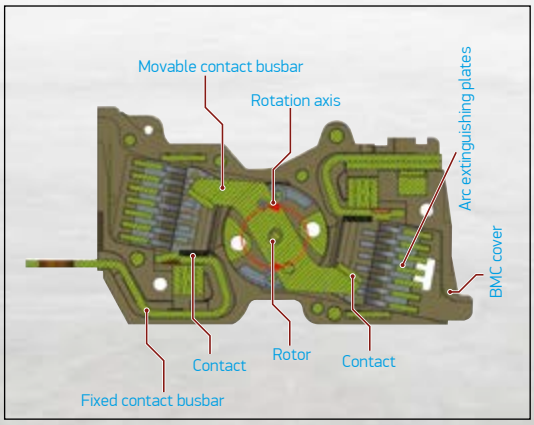


Sigma elektrik



150kA
Short Circuit Breaking Capacity

ROTARY CONTACT MCCB



ULTRA FAST
Double Break System

Rotary Switch LV MCCB, Thermal-Magnetic Adjustable Type - Technical Specifications

				MLT 160		SLT 160		ULT 160		XLT 160		MLT 250		SLT 250		ULT 250		XLT 250	
Standard				IEC / EN 60947-2								IEC / EN 60947-2							
Rated current (at 40°C)	In		A	20, 25, 32, 40, 50, 63, 80, 100, 125, 160								100, 125, 160, 200, 250							
Number of poles				3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
Rated operating voltage	Ue	V	AC	800		800		800		800		800		800		800		800	
Rated insulation voltage	Ui	V	AC	1000		1000		1000		1000		1000		1000		1000		1000	
Rated impulse Withstand voltage	Uimp	kV	AC	8		8		8		8		8		8		8		8	
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Category (IEC/EN 60947-2)				A		A		A		A		A		A		A		A	
Pollution degree				3		3		3		3		3		3		3		3	
Electrical life (No. operation)	ON - OFF		415V	4.000 - 8.000								4.000 - 8.000							
Mechanical life (No. operation)	ON - OFF			20.000		20.000		20.000		20.000		20.000		20.000		20.000		20.000	
Protection unit				Thermal Adjustable - Magnetic Fixed								Thermal - Magnetic Adjustable							
Protection unit (power & network system protection)				Ir: (0,7-1)xIn - Im: 10xIn								Ir: (0,7-1)xIn - Im: (0,5-10)xIn							
Ambient operating temperature			°C	-20 ... +70								-20 ... +70							
Ambient storage temperature			°C	-40 ... +80								-40 ... +80							
Relative humidity			%	95		95		95		95		95		95		95		95	

with ROTARY CONTACT
LV CIRCUIT BREAKERS

				MLT 400		SLT 400		ULT 400		XLT 400		MLT 630		SLT 630		ULT 630		XLT 630	
Standard				IEC / EN 60947-2								IEC / EN 60947-2							
Rated current (at 40°C)	In		A	320, 400								500, 600							
Number of poles				3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
Rated operating voltage	Ue	V	AC	800		800		800		800		800		800		800		800	
Rated insulation voltage	Ui	V	AC	1000		1000		1000		1000		1000		1000		1000		1000	
Rated impulse Withstand voltage	Uimp	kV	AC	8		8		8		8		8		8		8		8	
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Category (IEC/EN 60947-2)				A		A		A		A		A		A		A		A	
Pollution degree				3		3		3		3		3		3		3		3	
Electrical life (No. operation)	ON - OFF		415V	4.000-8.000								4.000-8.000							
Mechanical life (No. operation)	ON - OFF			20.000		20.000		20.000		20.000		20.000		20.000		20.000		20.000	
Protection unit				Thermal - Magnetic Adjustable								Thermal - Magnetic Adjustable							
Protection unit (power & network system protection)				Ir: (0,7-1)xIn - Im: (0,5-10)xIn								Ir: (0,7-1)xIn - Im: (0,5-10)xIn							
Ambient operating temperature			°C	-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70		-20 ... +70	
Ambient storage temperature			°C	-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80		-40 ... +80	
Relative humidity			%	95		95		95		95		95		95		95		95	

LV MCCB, Electronic Series - Technical Specifications

				MLE 160		SLE 160		ULE 160		XLE 160		MLE 250		SLE 250		ULE 250		XLE 250	
Standard				IEC / EN 60947-2								IEC / EN 60947-2							
Number of poles				3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
Rated current In (at 40°C)	In		A	40, 100, 160								250							
Rated operating voltage	Ue	V	AC	800		800		800		800		800		800		800		800	
Rated insulation voltage	Ui	V	AC	1000		1000		1000		1000		1000		1000		1000		1000	
Rated impulse Withstand voltage	Uimp	kV	AC	8		8		8		8		8		8		8		8	
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Category (IEC/EN 60947-2)				A		A		A		A		A		A		A		A	
Pollution degree				3		3		3		3		3		3		3		3	
Electrical life (No. operation)	ON - OFF		415V	4.000 - 8.000								4.000 - 8.000							
Mechanical life (No. operation)	ON - OFF			20.000								20.000							
Protection unit				Electronic								Electronic							
Protection unit (power & network system protection)				Ir: (0.4-1)xIn, Im: 1.5-10)xIn								Ir: (0.4-1)xIn, Im: 1.5-10)xIn							
Ambient operating temperature			°C	-20 ... +70								-20 ... +70							
Ambient storage temperature			°C	-40 ... +80								-40 ... +80							
Relative humidity			%	95		95		95		95		95		95		95		95	

ELECTRONIC SERIES
LV CIRCUIT BREAKERS

				MLE 400		SLE 400		ULE 400		XLE 400		MLE 630		SLE 630		ULE 630		XLE 630	
Standard				IEC / EN 60947-2								IEC / EN 60947-2							
Number of poles				3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
Rated current In (at 40°C)	In		A	400								630							
Rated operating voltage	Ue	V	AC	800								800							
Rated insulation voltage	Ui	V	AC	1000								1000							
Rated impulse Withstand voltage	Uimp	kV	AC	8		8		8		8		8		8		8		8	
Rated ultimate short circuit breaking capacity	Icu	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Rated service short circuit breaking capacity	Ics	kA	660-690V AC	15		20		36		50		15		20		36		50	
			480-500V AC	20		45		50		70		20		45		50		70	
			380-415V AC	50		70		100		150		50		70		100		150	
			220-240V AC	70		100		120		150		70		100		120		150	
			250V DC (3P series)	20		25		30		36		20		25		30		36	
Category (IEC/EN 60947-2)				A		A		A		A		A		A		A		A	
Pollution degree				3		3		3		3		3		3		3		3	
Electrical life (No. operation)	ON - OFF		415V	4.000 - 8.000								4.000 - 8.000							
Mechanical life (No. operation)	ON - OFF			20.000		20.000		20.000		20.000		20.000		20.000		20.000		20.000	
Protection unit				Electronic		Electronic		Electronic		Electronic		Electronic		Electronic		Electronic		Electronic	
Protection unit (power & network system protection)				Ir: (0.4-1)xIn, Im: 1.5-10)xIn								Ir: (0.4-1)xIn, Im: 1.5-10)xIn							
Ambient operating temperature			°C	-20 ... +70								-20 ... +70							
Ambient storage temperature			°C	-40 ... +80								-40 ... +80							
Relative humidity			%	95		95		95		95		95		95		95		95	

MLT Series Thermal-Magnetic MCCB (Ics:100%Icu)

New Product!



Type Code	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - MLT Series Thermal Adjustable-Magnetic Fixed MCCB						
MLT160	20	(0.7-1)xIn	10xIn	50 kA	8	3MLT160020
	25			50 kA	8	3MLT160025
	32			50 kA	8	3MLT160032
	40			50 kA	8	3MLT160040
	50			50 kA	8	3MLT160050
	63			50 kA	8	3MLT160063
	80			50 kA	8	3MLT160080
	100			50 kA	8	3MLT160100
	125			50 kA	8	3MLT160125
	160			50 kA	8	3MLT160160



3 Poles - MLT Series Thermal Adjustable-Magnetic Adjustable MCCB						
MLT250	100	(0.7-1)xIn	(5-10)xIn	50 kA	6	3MLT250100
	125			50 kA	6	3MLT250125
	160			50 kA	6	3MLT250160
	200			50 kA	6	3MLT250200
	250			50 kA	6	3MLT250250
MLT400	320	(0.7-1)xIn	(5-10)xIn	50 kA	2	3MLT400320
	400			50 kA	2	3MLT400400
MLT630	500	(0.7-1)xIn	(5-10)xIn	50 kA	2	3MLT630500
	630			50 kA	2	3MLT630630



4 Poles - MLT Series Thermal Adjustable-Magnetic Fixed MCCB						
MLT160N	25	(0.7-1)xIn	10xIn	50 kA	4	4MLT160025
	32			50 kA	4	4MLT160032
	40			50 kA	4	4MLT160040
	50			50 kA	4	4MLT160050
	63			50 kA	4	4MLT160063
	80			50 kA	4	4MLT160080
	100			50 kA	4	4MLT160100
	125			50 kA	4	4MLT160125
	160			50 kA	4	4MLT160160



4 Poles - MLT Series Thermal Adjustable-Magnetic Adjustable MCCB						
MLT250N	100	(0.7-1)xIn	(5-10)xIn	50 kA	4	4MLT250100
	125			50 kA	4	4MLT250125
	160			50 kA	4	4MLT250160
	200			50 kA	4	4MLT250200
	250			50 kA	4	4MLT250250
MLT400N	320	(0.7-1)xIn	(5-10)xIn	50 kA	2	4MLT400320
	400			50 kA	2	4MLT400400
MLT630N	500	(0.7-1)xIn	(5-10)xIn	50 kA	2	4MLT630500
	630			50 kA	2	4MLT630630

SLT Series Thermal-Magnetic MCCB (Ics:100%Icu)

New Product!



Type Code	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - MLT Series Thermal Adjustable-Magnetic Fixed MCCB						
SLT160	20	(0.7-1)xIn	10xIn	**70 kA**	6	**3SLT160020**
	25			**70 kA**	6	**3SLT160025**
	32			**70 kA**	6	**3SLT160032**
	40			**70 kA**	6	**3SLT160040**
	50			**70 kA**	6	**3SLT160050**
	63			**70 kA**	6	**3SLT160063**
	80			**70 kA**	6	**3SLT160080**
	100			**70 kA**	6	**3SLT160100**
	125			**70 kA**	6	**3SLT160125**
	160			**70 kA**	6	**3SLT160160**



3 Poles - SLT Series Thermal Adjustable-Magnetic Adjustable MCCB						
SLT250	100	(0.7-1)xIn	(5-10)xIn	**70 kA**	6	**3SLT250100**
	125			**70 kA**	6	**3SLT250125**
	160			**70 kA**	6	**3SLT250160**
	200			**70 kA**	6	**3SLT250200**
	250			**70 kA**	6	**3SLT250250**
SLT400	320	(0.7-1)xIn	(5-10)xIn	**70 kA**	2	**3SLT400320**
	400			**70 kA**	2	**3SLT400400**
SLT630	500	(0.7-1)xIn	(5-10)xIn	**70 kA**	2	**3SLT630500**
	630			**70 kA**	2	**3SLT630630**



4 Poles - SLT Series Thermal Adjustable-Magnetic Fixed MCCB						
SLT160N	25	(0.7-1)xIn	10xIn	**70 kA**	4	**4SLT160025**
	32			**70 kA**	4	**4SLT160032**
	40			**70 kA**	4	**4SLT160040**
	50			**70 kA**	4	**4SLT160050**
	63			**70 kA**	4	**4SLT160063**
	80			**70 kA**	4	**4SLT160080**
	100			**70 kA**	4	**4SLT160100**
	125			**70 kA**	4	**4SLT160125**
	160			**70 kA**	4	**4SLT160160**



4 Poles - SLT Series Thermal Adjustable-Magnetic Fixed MCCB						
SLT250N	100	(0.7-1)xIn	(5-10)xIn	**70 kA**	4	**4SLT250100**
	125			**70 kA**	4	**4SLT250125**
	160			**70 kA**	4	**4SLT250160**
	200			**70 kA**	4	**4SLT250200**
	250			**70 kA**	4	**4SLT250250**
SLT400N	320	(0.7-1)xIn	(5-10)xIn	**70 kA**	2	**4SLT400320**
	400			**70 kA**	2	**4SLT400400**
SLT630N	500	(0.7-1)xIn	(5-10)xIn	**70 kA**	2	**4SLT630500**
	630			**70 kA**	2	**4SLT630630**

ULT Series Thermal-Magnetic MCCB (Ics:100%Icu)

New Product!



Type Code	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - ULT Series Thermal Adjustable-Magnetic Fixed MCCB						
ULT160	25	(0.7-1)xIn	10xIn	100 kA	6	3ULT160025
	32			100 kA	6	3ULT160032
	40			100 kA	6	3ULT160040
	50			100 kA	6	3ULT160050
	63			100 kA	6	3ULT160063
	80			100 kA	6	3ULT160080
	100			100 kA	6	3ULT160100
	125			100 kA	6	3ULT160125
	160			100 kA	6	3ULT160160



3 Poles - ULT Series Thermal Adjustable-Magnetic Adjustable MCCB						
ULT250	100	(0.7-1)xIn	(5-10)xIn	100 kA	6	3ULT250100
	125			100 kA	6	3ULT250125
	160			100 kA	6	3ULT250160
	200			100 kA	6	3ULT250200
	250			100 kA	6	3ULT250250
ULT400	320	(0.7-1)xIn	(5-10)xIn	100 kA	2	3ULT400320
	400			100 kA	2	3ULT400400
ULT630	500	(0.7-1)xIn	(5-10)xIn	100 kA	2	3ULT630500
	630			100 kA	2	3ULT630630



4 Poles - ULT Series Thermal Adjustable-Magnetic Fixed MCCB						
ULT160N	25	(0.7-1)xIn	10xIn	100 kA	4	4ULT160025
	32			100 kA	4	4ULT160032
	40			100 kA	4	4ULT160040
	50			100 kA	4	4ULT160050
	63			100 kA	4	4ULT160063
	80			100 kA	4	4ULT160080
	100			100 kA	4	4ULT160100
	125			100 kA	4	4ULT160125
	160			100 kA	4	4ULT160160



4 Poles - ULT Series Thermal Adjustable-Magnetic Fixed MCCB						
ULT250N	100	(0.7-1)xIn	(5-10)xIn	100 kA	4	4ULT250100
	125			100 kA	4	4ULT250125
	160			100 kA	4	4ULT250160
	200			100 kA	4	4ULT250200
	250			100 kA	4	4ULT250250
ULT400N	320	(0.7-1)xIn	(5-10)xIn	100 kA	2	4ULT400320
	400			100 kA	2	4ULT400400
ULT630N	500	(0.7-1)xIn	(5-10)xIn	100 kA	2	4ULT630500
	630			100 kA	2	4ULT630630

XLT Series Thermal-Magnetic MCCB (Ics:100%Icu)

New Product!



Type Code	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - XLT Series Thermal Adjustable-Magnetic Fixed MCCB						
XLT160	25	(0.7-1)xIn	10xIn	**150 kA**	6	**3XLT160025**
	32			**150 kA**	6	**3XLT160032**
	40			**150 kA**	6	**3XLT160040**
	50			**150 kA**	6	**3XLT160050**
	63			**150 kA**	6	**3XLT160063**
	80			**150 kA**	6	**3XLT160080**
	100			**150 kA**	6	**3XLT160100**
	125			**150 kA**	6	**3XLT160125**
	160			**150 kA**	6	**3XLT160160**



3 Poles - XLT Series Thermal Adjustable-Magnetic Adjustable MCCB						
XLT250	100	(0.7-1)xIn	(5-10)xIn	**150 kA**	6	**3XLT250100**
	125			**150 kA**	6	**3XLT250125**
	160			**150 kA**	6	**3XLT250160**
	200			**150 kA**	6	**3XLT250200**
	250			**150 kA**	6	**3XLT250250**
XLT400	320	(0.7-1)xIn	(5-10)xIn	**150 kA**	2	**3XLT400320**
	400			**150 kA**	2	**3XLT400400**
XLT630	500	(0.7-1)xIn	(5-10)xIn	**150 kA**	2	**3XLT630500**
	630			**150 kA**	2	**3XLT630630**



4 Poles - XLT Series Thermal Adjustable-Magnetic Fixed MCCB						
XLT160N	25	(0.7-1)xIn	10xIn	**150 kA**	4	**4XLT160025**
	32			**150 kA**	4	**4XLT160032**
	40			**150 kA**	4	**4XLT160040**
	50			**150 kA**	4	**4XLT160050**
	63			**150 kA**	4	**4XLT160063**
	80			**150 kA**	4	**4XLT160080**
	100			**150 kA**	4	**4XLT160100**
	125			**150 kA**	4	**4XLT160125**
	160			**150 kA**	4	**4XLT160160**



4 Poles - XLT Series Thermal Adjustable-Magnetic Fixed MCCB						
XLT250N	100	(0.7-1)xIn	(5-10)xIn	**150 kA**	4	**4XLT250100**
	125			**150 kA**	4	**4XLT250125**
	160			**150 kA**	4	**4XLT250160**
	200			**150 kA**	4	**4XLT250200**
	250			**150 kA**	4	**4XLT250250**
XLT400N	320	(0.7-1)xIn	(5-10)xIn	**150 kA**	2	**4XLT400320**
	400			**150 kA**	2	**4XLT400400**
XLT630N	500	(0.7-1)xIn	(5-10)xIn	**150 kA**	2	**4XLT630500**
	630			**150 kA**	2	**4XLT630630**

MLT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection) (Ics:100%Icu)



Type Code	Rated Current In (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - MLT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)					
MLT160	25	10xIn	**50 kA**	8	**3MLT160025M**
	32		**50 kA**	8	**3MLT160032M**
	40		**50 kA**	8	**3MLT160040M**
	50		**50 kA**	8	**3MLT160050M**
	63		**50 kA**	8	**3MLT160063M**
	80		**50 kA**	8	**3MLT160080M**
	100		**50 kA**	8	**3MLT160100M**
	125		**50 kA**	8	**3MLT160125M**
	160		**50 kA**	8	**3MLT160160M**
MLT250	200	10xIn	**50 kA**	8	**3MLT250200M**
	250		**50 kA**	6	**3MLT250250M**



4 Poles - MLT Series Magnetic MCCB (Magnetic Protection - without Thermal Protection)					
MLT160N	25	10xIn	**50 kA**	8	**4MLT160025M**
	32		**50 kA**	8	**4MLT160032M**
	40		**50 kA**	8	**4MLT160040M**
	50		**50 kA**	8	**4MLT160050M**
	63		**50 kA**	8	**4MLT160064M**
	80		**50 kA**	8	**4MLT160080M**
	100		**50 kA**	8	**4MLT160100M**
	125		**50 kA**	8	**4MLT160125M**
	160		**50 kA**	8	**4MLT160160M**
MLT250N	200	10xIn	**50 kA**	8	**4MLT250200M**
	250		**50 kA**	6	**4MLT250250M**

Electronic Type MCCB (Ics:100%Icu)

New Product!



Type Code	Usage Category	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - MLE Series Electronic MCCB - Adjustable							
MLE160	**A**	40	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**3MLE160040**
	A	100			**50 kA**	6	**3MLE160100**
	A	160			**50 kA**	6	**3MLE160160**
MLE250	**A**	250	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**3MLE250250**
MLE400	**A**	400	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**3MLE400400**
MLE630	**A**	630	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**3MLE630630**



4 Poles - MLE Series Electronic MCCB - Adjustable							
MLE160N	**A**	40	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**4MLE160040**
	A	100			**50 kA**	6	**4MLE160100**
	A	160			**50 kA**	6	**4MLE160160**
MLE250N	**A**	250	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**4MLE250250**
MLE400N	**A**	400	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**4MLE400400**
MLE630N	**A**	630	(0.4-1)xIn	(2-12)xIn	**50 kA**	6	**4MLE630630**

Electronic Type MCCB (Ics:100%Icu)

New Product!



Type Code	Usage Category	Rated Current (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Pcs in a Box	Order Code
3 Poles - SLE Series Electronic MCCB - Adjustable							
SLE160	A	40	(0.4-1)xIn	(2-12)xIn	70 kA	6	3SLE160040
	A	100			70 kA	6	3SLE160100
	A	160			70 kA	6	3SLE160160
SLE250	A	250	(0.4-1)xIn	(2-12)xIn	70 kA	6	3SLE250250
SLE400	A	400	(0.4-1)xIn	(2-12)xIn	70 kA	6	3SLE400400
SLE630	A	630	(0.4-1)xIn	(2-12)xIn	70 kA	6	3SLE630630



4 Poles - SLE Series Electronic MCCB - Adjustable							
SLE160N	A	40	(0.4-1)xIn	(2-12)xIn	70 kA	6	4SLE160040
	A	100			70 kA	6	4SLE160100
	A	160			70 kA	6	4SLE160160
SLE250N	A	250	(0.4-1)xIn	(2-12)xIn	70 kA	6	4SLE250250
SLE400N	A	400	(0.4-1)xIn	(2-12)xIn	70 kA	6	4SLE400400
SLE630N	A	630	(0.4-1)xIn	(2-12)xIn	70 kA	6	4SLE630630



3 Poles - ULE Series Electronic MCCB - Adjustable							
ULE160	A	40	(0.4-1)xIn	(2-12)xIn	100 kA	6	3ULE160040
	A	100			100 kA	6	3ULE160100
	A	160			100 kA	6	3ULE160160
ULE250	A	250	(0.4-1)xIn	(2-12)xIn	100 kA	6	3ULE250250
ULE400	A	400	(0.4-1)xIn	(2-12)xIn	100 kA	6	3ULE400400
ULE630	A	630	(0.4-1)xIn	(2-12)xIn	100 kA	6	3ULE630630



4 Poles - ULE Series Electronic MCCB - Adjustable							
ULE160N	A	40	(0.4-1)xIn	(2-12)xIn	100 kA	6	4ULE160040
	A	100			100 kA	6	4ULE160100
	A	160			100 kA	6	4ULE160160
ULE250N	A	250	(0.4-1)xIn	(2-12)xIn	100 kA	6	4ULE250250
ULE400N	A	400	(0.4-1)xIn	(2-12)xIn	100 kA	6	4ULE400400
ULE630N	A	630	(0.4-1)xIn	(2-12)xIn	100 kA	6	4ULE630630



3 Poles - XLE Series Electronic MCCB - Adjustable							
XLE160	A	40	(0.4-1)xIn	(2-12)xIn	150 kA	6	3XLE160040
	A	100			150 kA	6	3XLE160100
	A	160			150 kA	6	3XLE160160
XLE250	A	250	(0.4-1)xIn	(2-12)xIn	150 kA	6	3XLE250250
XLE400	A	400	(0.4-1)xIn	(2-12)xIn	150 kA	6	3XLE400400
XLE630	A	630	(0.4-1)xIn	(2-12)xIn	150 kA	6	3XLE630630



4 Poles - XLE Series Electronic MCCB - Adjustable							
XLE160N	A	40	(0.4-1)xIn	(2-12)xIn	150 kA	6	4XLE160040
	A	100			150 kA	6	4XLE160100
	A	160			150 kA	6	4XLE160160
XLE250N	A	250	(0.4-1)xIn	(2-12)xIn	150 kA	6	4XLE250250
XLE400N	A	400	(0.4-1)xIn	(2-12)xIn	150 kA	6	4XLE400400
XLE630N	A	630	(0.4-1)xIn	(2-12)xIn	150 kA	6	4XLE630630

Undervoltage Release - 400V AC

Applicable MCCB	Coil Voltage	Order Code
MLT160, MLT160N, MLT250, MLT250N, MLT400, MLT400N, MLT630, MLT630N, MLE160, MLE160N, MLE250, MLE250N, MLE400, MLE400N, MLE630, MLE630N SLT160, SLT160N, SLT250, SLT250N, SLT400, SLT400N, SLT630, SLT630N, SLE160, SLE160N, SLE250, SLE250N, SLE400, SLE400N, SLE630, SLE630N XLT160, XLT160N, XLT250, XLT250N, XLT400, XLT400N, XLT630, XLT630N, XLE160, XLE160N, XLE250, XLE250N, XLE400, XLE400N, XLE630, XLE630N ULT160, ULT160N, ULT250, ULT250N, ULT400, ULT400N, ULT630, ULT630N, ULE160, ULE160N, ULE250, ULE250N, ULE400, ULE400N, ULE630, ULE630N	400V AC	**K0250DG400AC**

Note: It is not possible to use a undervoltage release and a shunt trip release simultaneously.

Shunt Trip Release

Applicable MCCB	Coil Voltage	Order Code
MLT160, MLT160N, MLT250, MLT250N, MLT400, MLT400N, MLT630, MLT630N, MLE160, MLE160N, MLE250, MLE250N, MLE400, MLE400N, MLE630, MLE630N SLT160, SLT160N, SLT250, SLT250N, SLT400, SLT400N, SLT630, SLT630N, SLE160, SLE160N, SLE250, SLE250N, SLE400, SLE400N, SLE630, SLE630N	230V AC	**K0250AB230AC**
XLT160, XLT160N, XLT250, XLT250N, XLT400, XLT400N, XLT630, XLT630N, XLE160, XLE160N, XLE250, XLE250N, XLE400, XLE400N, XLE630, XLE630N ULT160, ULT160N, ULT250, ULT250N, ULT400, ULT400N, ULT630, ULT630N, ULE160, ULE160N, ULE250, ULE250N, ULE400, ULE400N, ULE630, ULE630N	24-30V DC	**K0250AB030DC**

Auxiliary Contact

Applicable MCCB	Coil Voltage	Order Code
MLT160, MLT160N, MLT250, MLT250N, MLT400, MLT400N, MLT630, MLT630N, MLE160, MLE160N, MLE250, MLE250N, MLE400, MLE400N, MLE630, MLE630N SLT160, SLT160N, SLT250, SLT250N, SLT400, SLT400N, SLT630, SLT630N, SLE160, SLE160N, SLE250, SLE250N, SLE400, SLE400N, SLE630, SLE630N XLT160, XLT160N, XLT250, XLT250N, XLT400, XLT400N, XLT630, XLT630N, XLE160, XLE160N, XLE250, XLE250N, XLE400, XLE400N, XLE630, XLE630N ULT160, ULT160N, ULT250, ULT250N, ULT400, ULT400N, ULT630, ULT630N, ULE160, ULE160N, ULE250, ULE250N, ULE400, ULE400N, ULE630, ULE630N	1NO+1NC	**K0250YK**

Alarm Contact - 1NO+1NC

Applicable MCCB	Order Code
MLT160, MLT160N, MLT250, MLT250N, MLT400, MLT400N, MLT630, MLT630N, MLE160, MLE160N, MLE250, MLE250N, MLE400, MLE400N, MLE630, MLE630N SLT160, SLT160N, SLT250, SLT250N, SLT400, SLT400N, SLT630, SLT630N, SLE160, SLE160N, SLE250, SLE250N, SLE400, SLE400N, SLE630, SLE630N XLT160, XLT160N, XLT250, XLT250N, XLT400, XLT400N, XLT630, XLT630N, XLE160, XLE160N, XLE250, XLE250N, XLE400, XLE400N, XLE630, XLE630N ULT160, ULT160N, ULT250, ULT250N, ULT400, ULT400N, ULT630, ULT630N, ULE160, ULE160N, ULE250, ULE250N, ULE400, ULE400N, ULE630, ULE630N	**K0250AK**

Mechanical Pad Lock

Applicable MCCB	Order Code
MLT160, MLT160N, MLT250, MLT250N, MLT400, MLT400N, MLT630, MLT630N, MLE160, MLE160N, MLE250, MLE250N, MLE400, MLE400N, MLE630, MLE630N SLT160, SLT160N, SLT250, SLT250N, SLT400, SLT400N, SLT630, SLT630N, SLE160, SLE160N, SLE250, SLE250N, SLE400, SLE400N, SLE630, SLE630N XLT160, XLT160N, XLT250, XLT250N, XLT400, XLT400N, XLT630, XLT630N, XLE160, XLE160N, XLE250, XLE250N, XLE400, XLE400N, XLE630, XLE630N ULT160, ULT160N, ULT250, ULT250N, ULT400, ULT400N, ULT630, ULT630N, ULE160, ULE160N, ULE250, ULE250N, ULE400, ULE400N, ULE630, ULE630N	**SEMK101**

Connection Terminal

Applicable MCCB	Pcs	Order Code
MLT160, MLT250, MLE160, MLE250 SLT160, SLT250, SLE160, SLE250 ULT160, ULT250, ULE160, ULE250 XLT160, XLT250, XLE160, XLE250	6	**K3250BK**
MLT160N, MLT250N, MLE160N, MLE250N SLT160N, SLT250N, SLE160N, SLE250N ULT160N, ULT250N, ULE160N, ULE250N XLT160N, XLT250N, XLE160N, XLE250N	8	**K4250BK**

Extension Bus Bar Set (6-8 Pcs/Set)

Applicable MCCB	Pcs	Order Code
MLT160, MLT250, MLE160, MLE250 SLT160, SLT250, SLE160, SLE250 ULT160, ULT250, ULE160,ULE250 XLT160 XLT250 XLE160 XLE250	6	**K0250UB**
MLT160N, MLT250N, MLE160N, MLE250N SLT160N, SLT250N, SLE160N, SLE250N ULT160N, ULT250N, ULE160N, ULE250N XLT160N, XLT250N, XLE160N, XLE250N	8	**K0250UN**
MLT400, MLE400, SLT400, SLE400, ULT400, ULE400, XLT400, XLE400	6	**A0400UB**
MLT400N, MLE400N, SLT400N, SLE400N, ULT400N, ULE400N, XLT400N, XLE400N	8	**A0400UN**
MLT630, MLE630, SLT630, SLE630, ULT630, ULE630, XLT630, XLE630	6	**KLT0630UB**
MLT630N, MLE630N, SLT630N, SLE630N, ULT630N, ULE630N, XLT630N, XLE630N	8	**KLT0630UN**

Motor Operator - 230V AC

Applicable MCCB	Order Code
MLT160, MLT250, MLE160, MLE250 SLT160, SLT250, SLE160, SLE250 ULT160, ULT250, ULE160, ULE250 XLT160, XLT250, XLE160, XLE250	**K0250MM**
MLT160N, MLT250N, MLE160N, MLE250N SLT160N, SLT250N, SLE160N, SLE250N ULT160N, ULT250N, ULE160N, ULE250N XLT160N, XLT250N, XLE160N, XLE250N	**K0250MMN**
MLT400, MLT630, MLE400, MLE630 SLT400, SLT630, SLE400, SLE630 ULT400, ULT630, ULE400, ULE630 XLT400, XLT630, XLE400, XLE630	**MLT0630MM**
MLT400N, MLT630N, MLE400N, MLE630N SLT400N, SLT630N, SLE400N, SLE630N ULT400N, ULT630N, ULE400N, ULE630N XLT400N, XLT630N, XLE400N, XLE630N	**MLT0630MMN**

Rotary Handle (Direct Assembly)

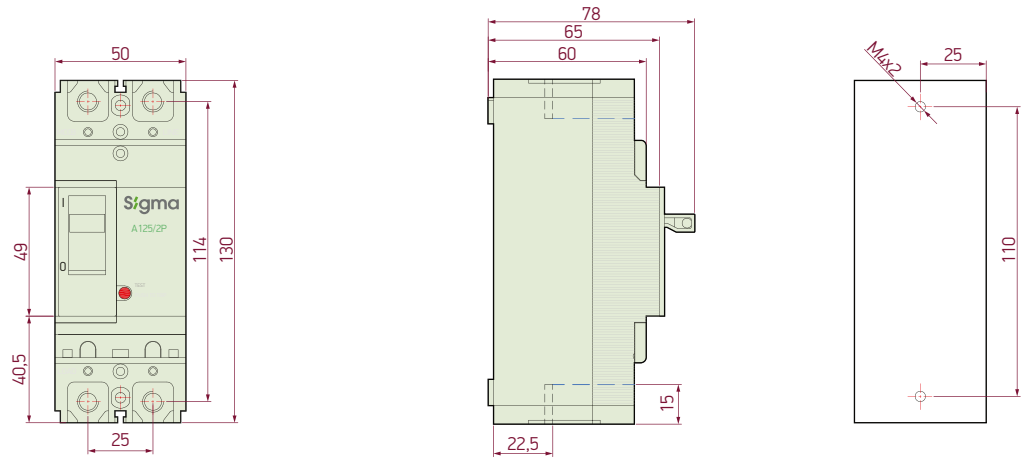
Applicable MCCB	Order Code
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Extension Rotary Handle (with extension shaft)

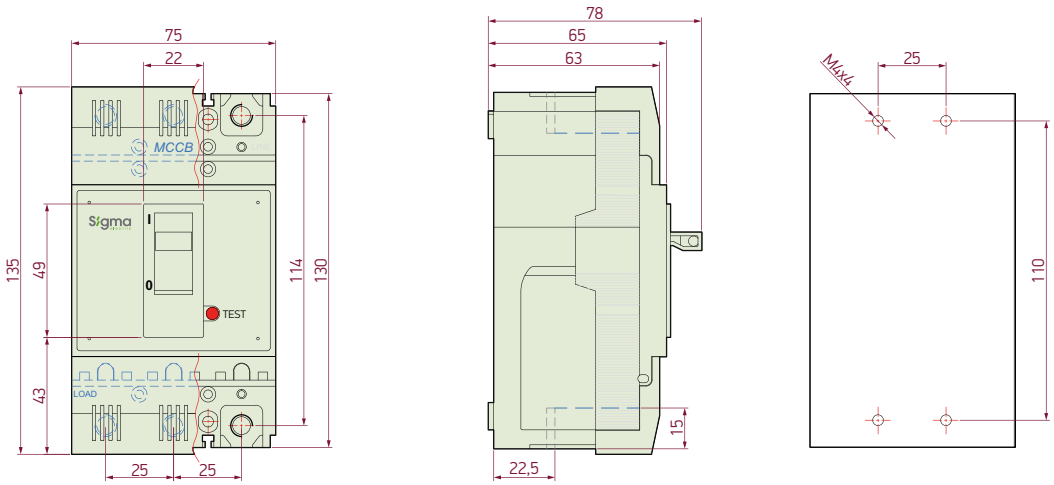
Applicable MCCB	Order Code
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MLT400, MLT400N, MLT630, MLT630N, MLE400, MLE400N, MLE630, MLE630N SLT400, SLT400N, SLT630, SLT630N, SLE400, SLE400N, SLE630, SLE630N ULT400, ULT400N, ULT630, ULT630N, ULE400, ULE400N, ULE630, ULE630N XLT400, XLT400N, XLT630, XLT630N, XLE400, XLE400N, XLE630, XLE630N	**K0630DK**

Dimensions

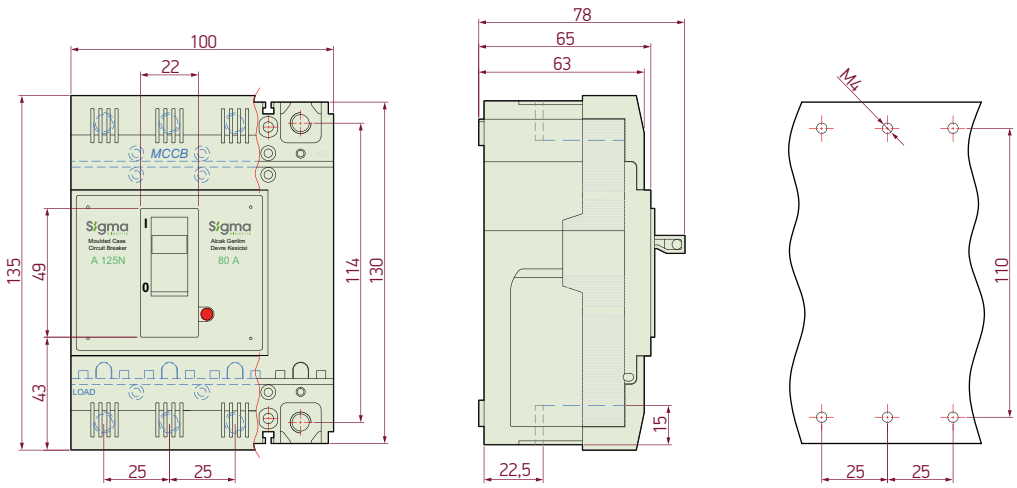
A125 (2P)



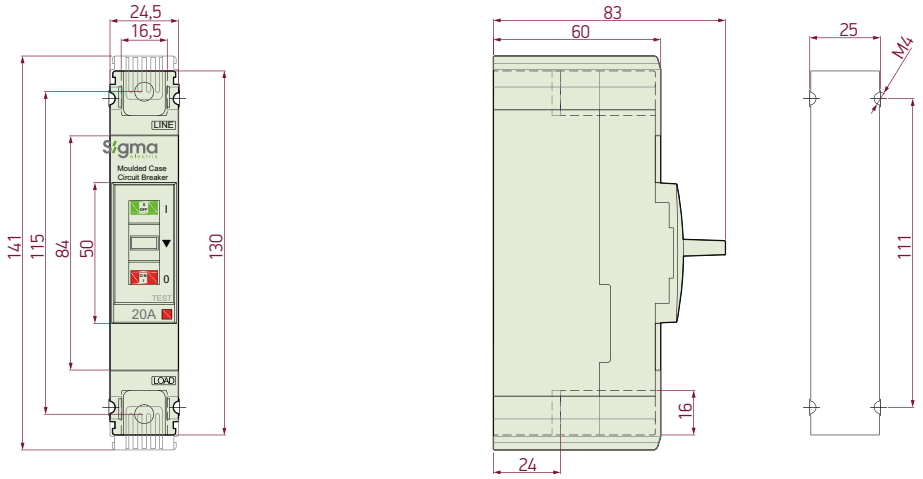
A125



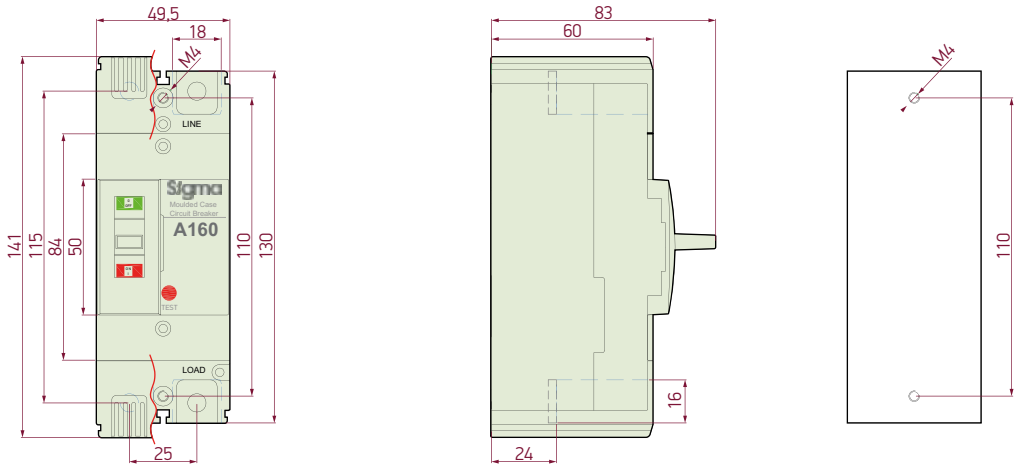
A125N



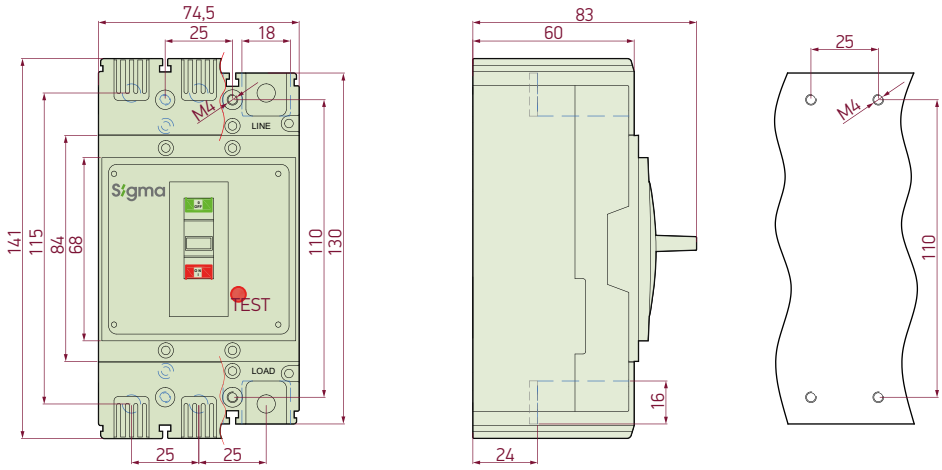
A160 (1P)



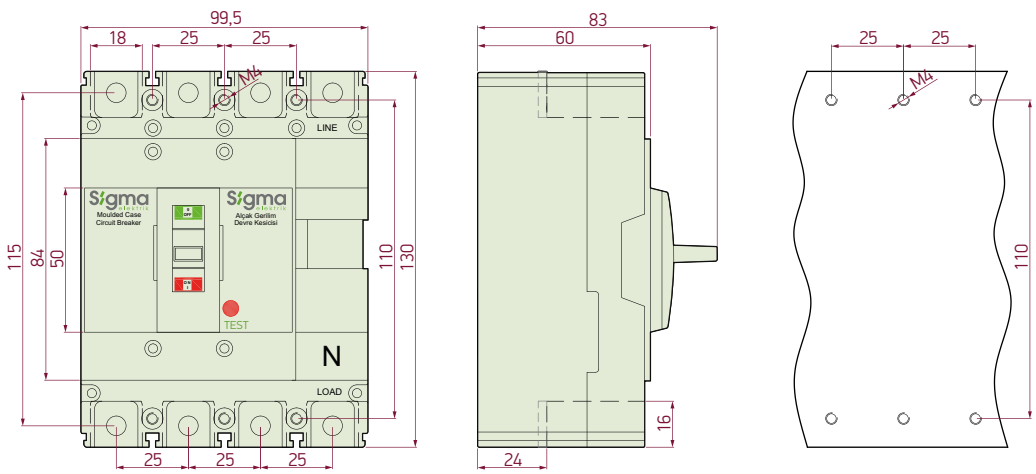
A160 (2P)



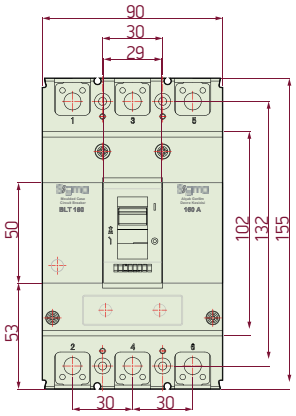
A160

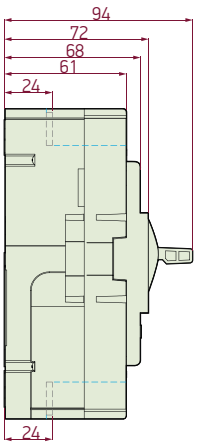


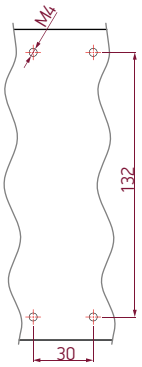
A160N



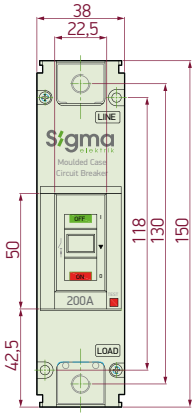
BLT160

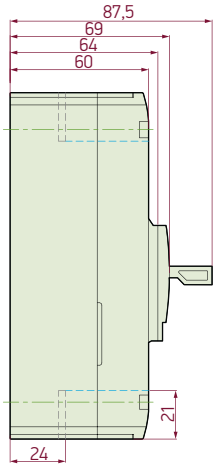


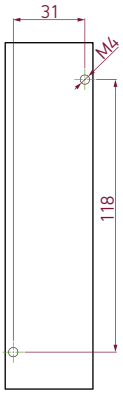




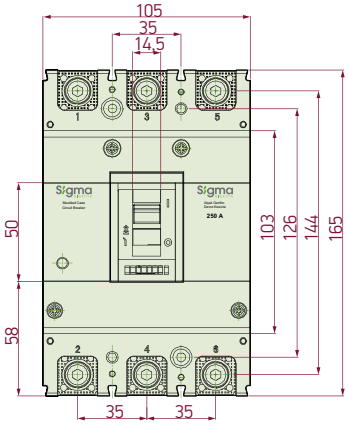
A250-1P

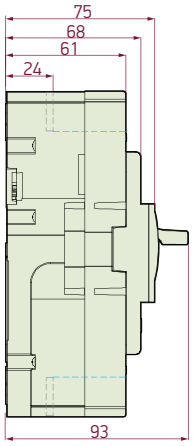


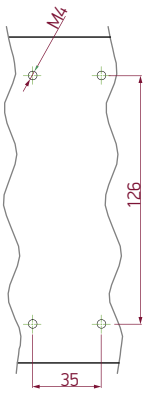




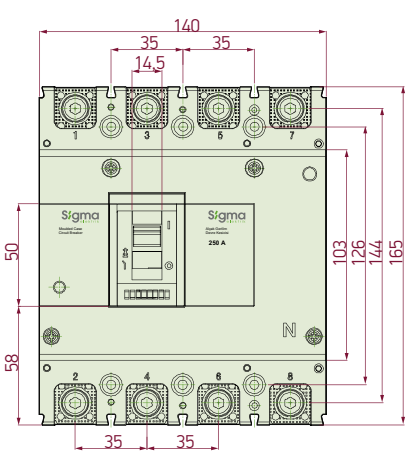
ALT250 - BLT250

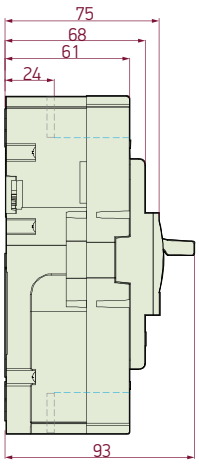


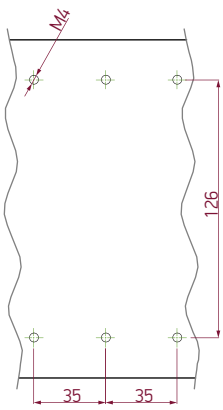




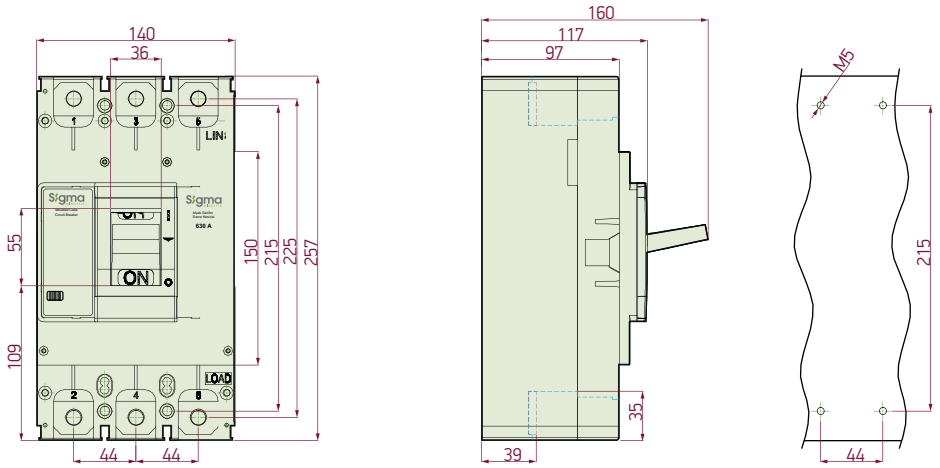
ALT250N - BLT250N



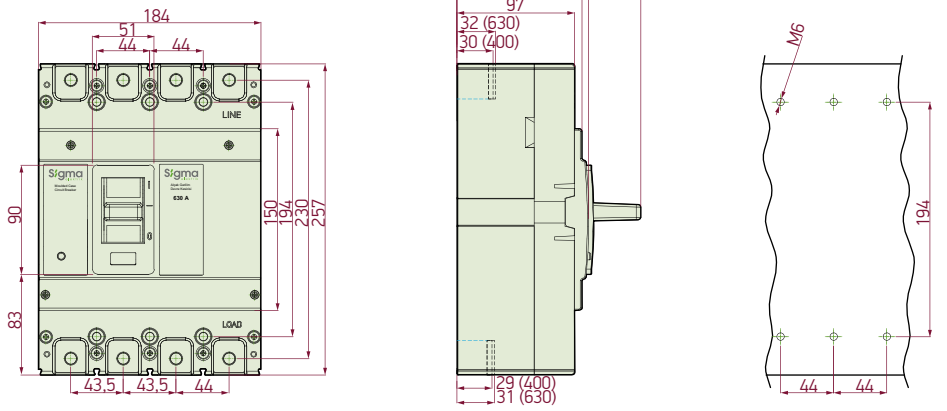




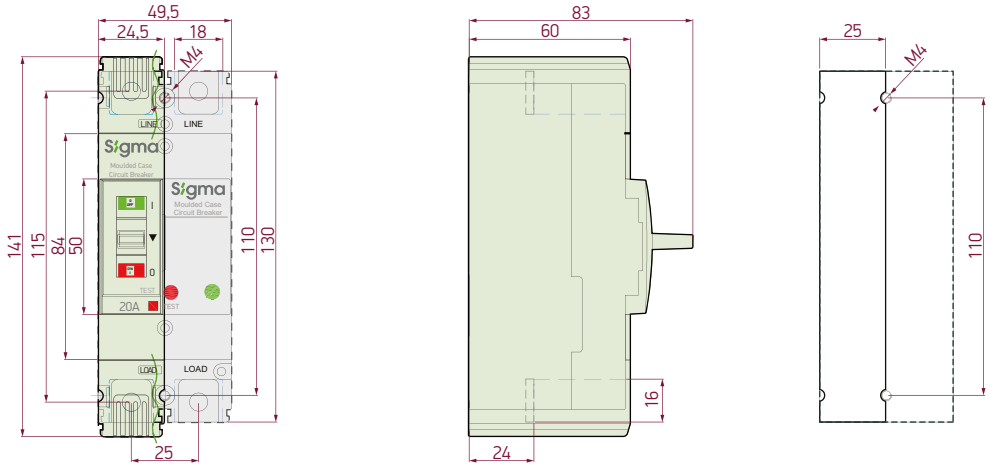
ALT400 / ALT630 - BLT400 / BLT630



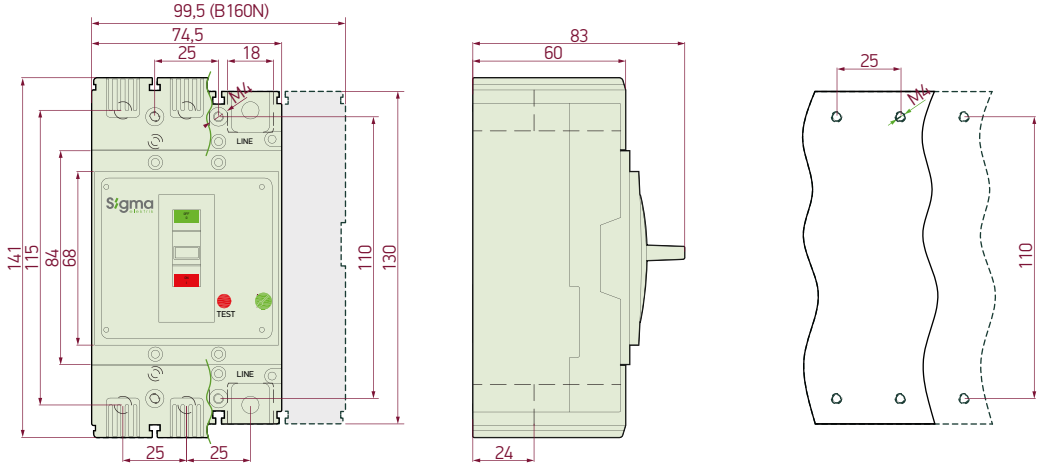
ALT400N / ALT630N - BLT400 / BLT630



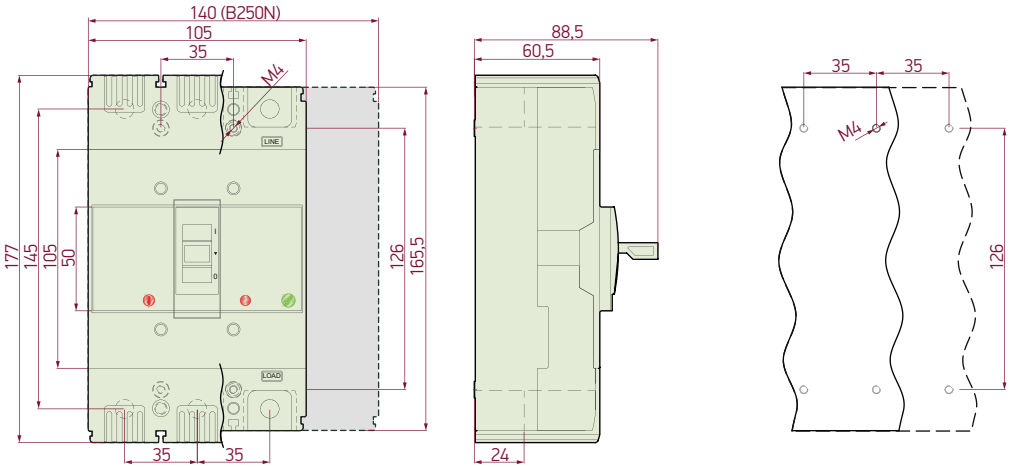
B160 (2P)



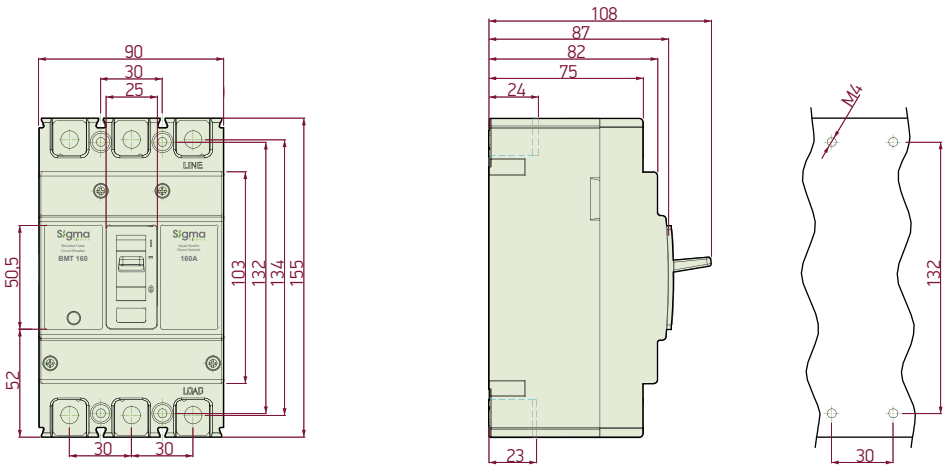
B160 - B160N



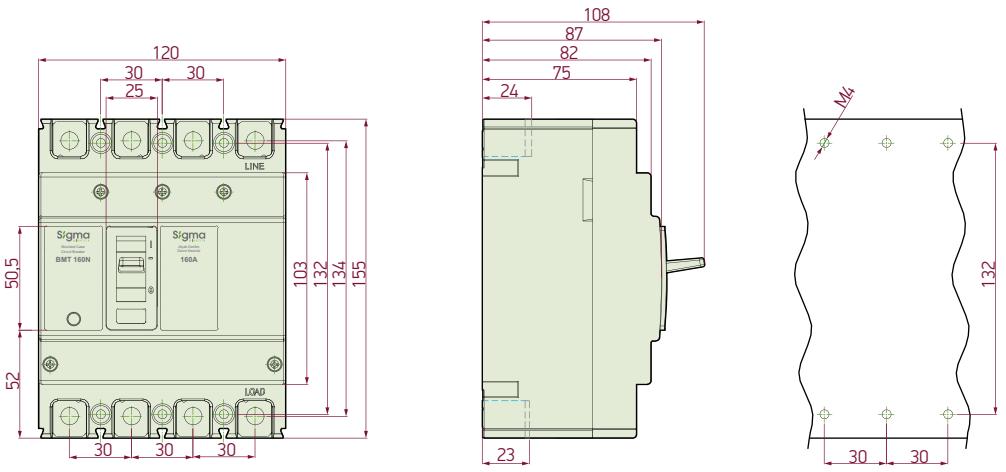
B250 - B250N



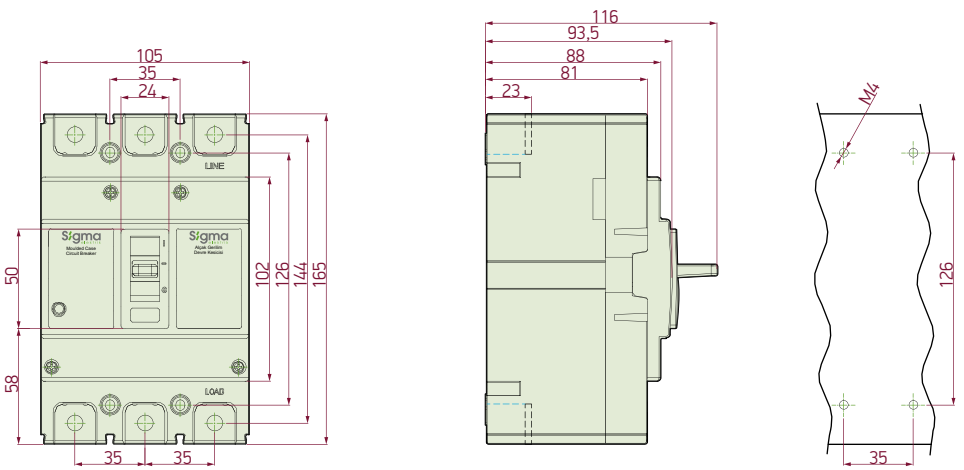
BMT160-3P



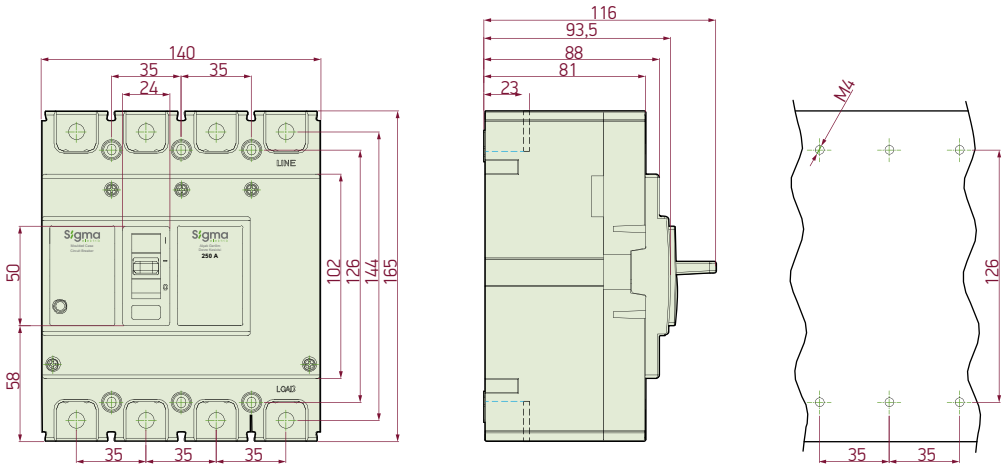
BMT160-4P



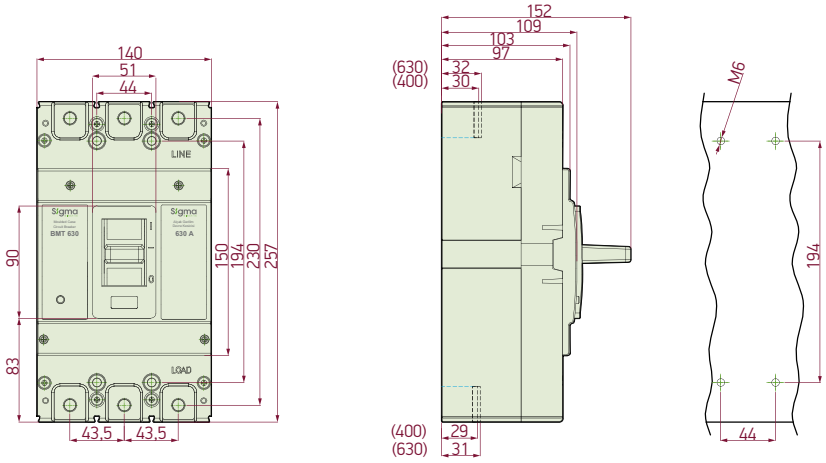
BMT250-3P



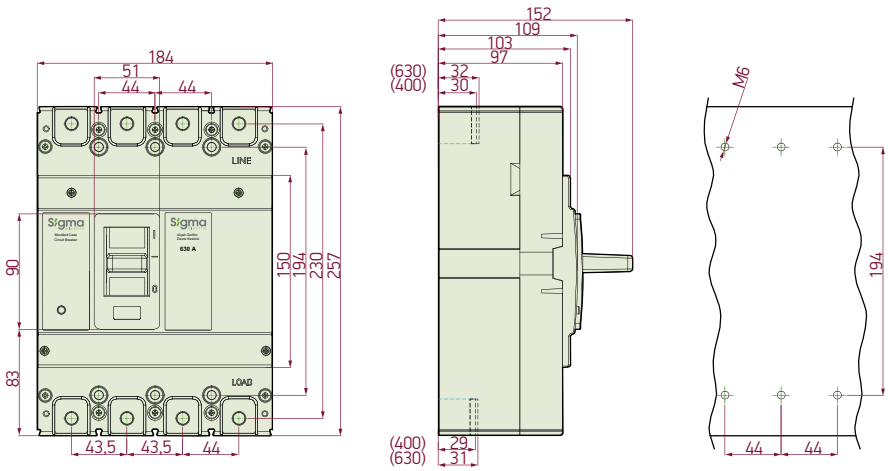
BMT250-4P



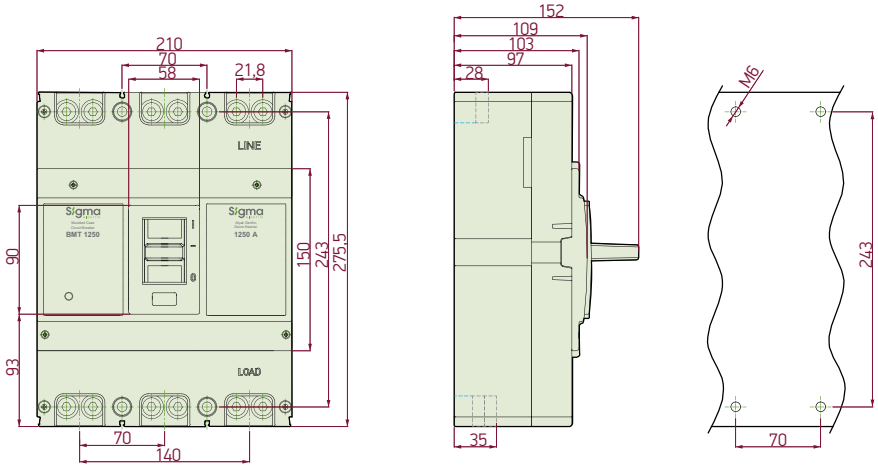
BMT400 / BMT630 - 3P



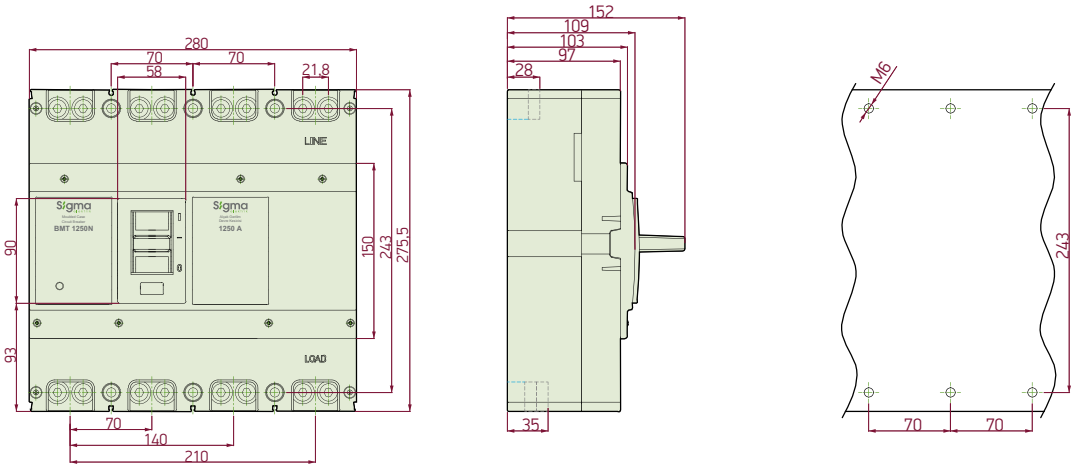
BMT400 / BMT630 - 4P



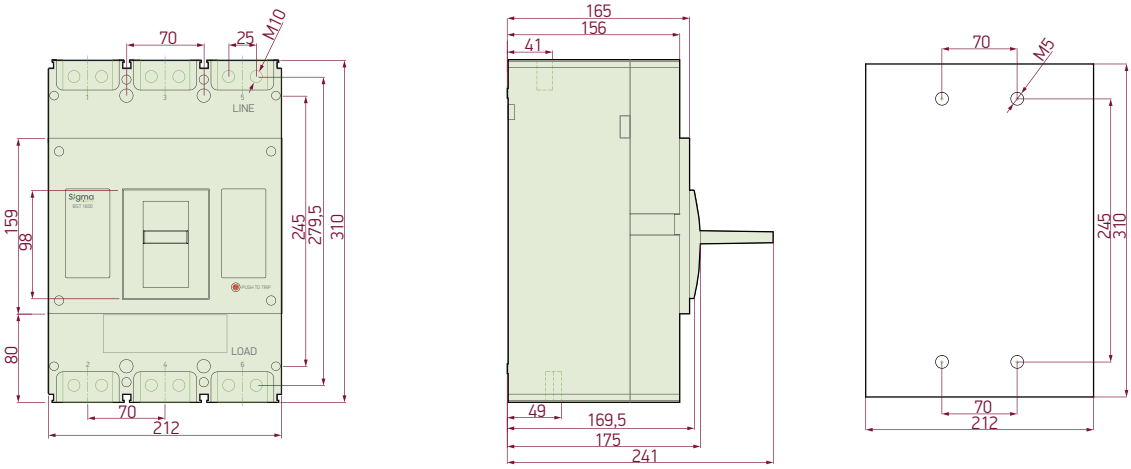
BMT1250-3P



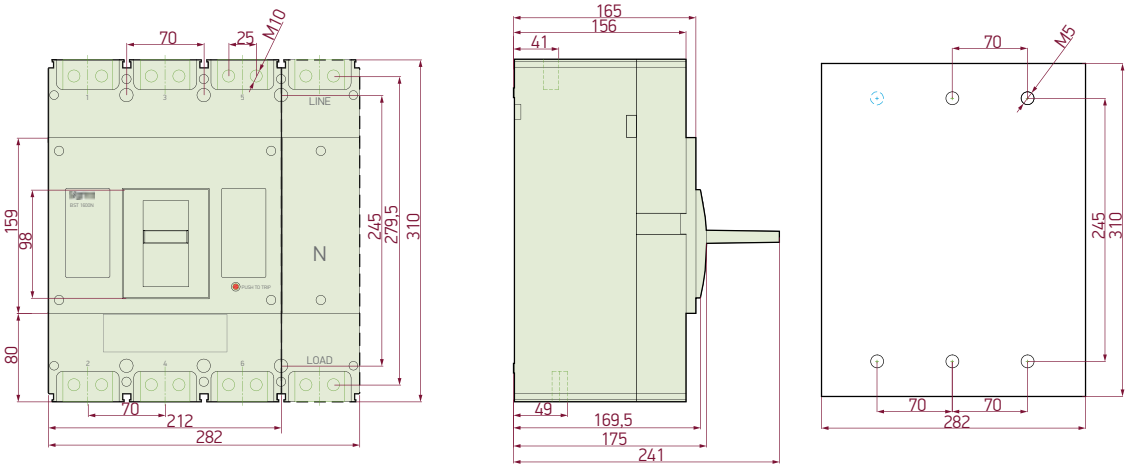
BMT1250-4P



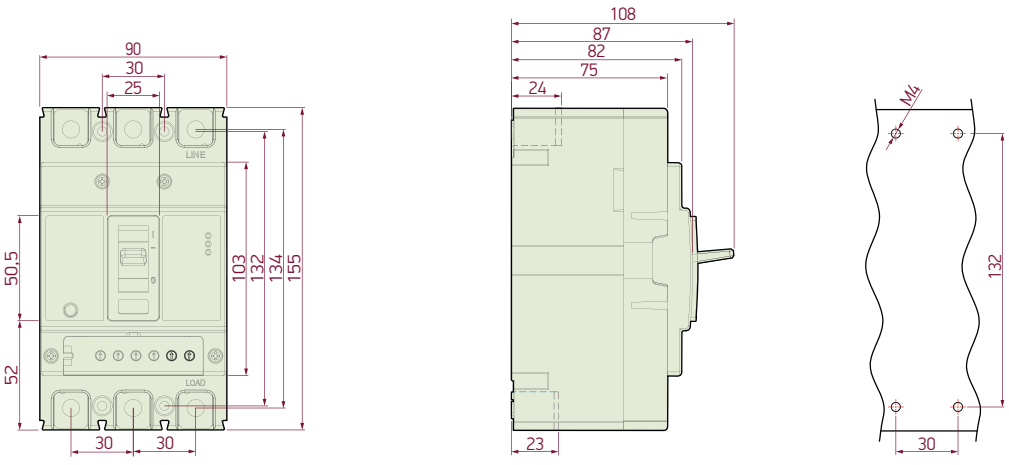
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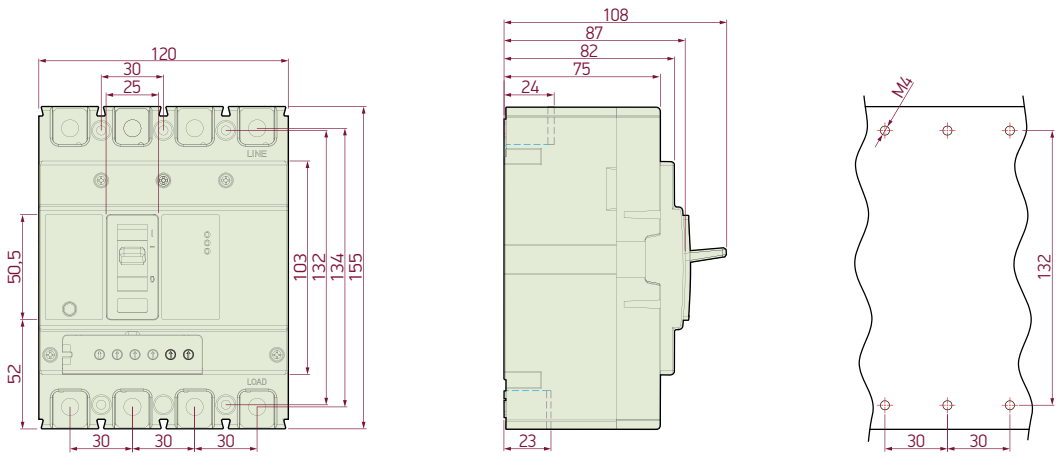
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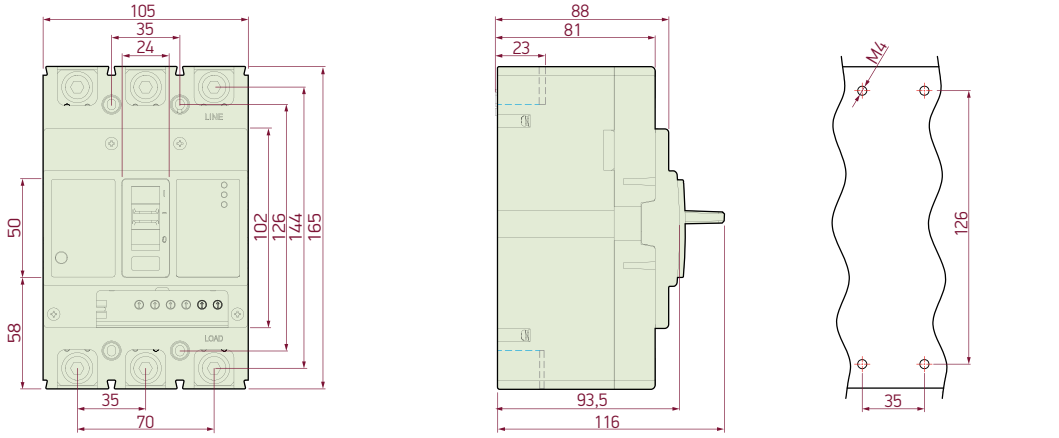
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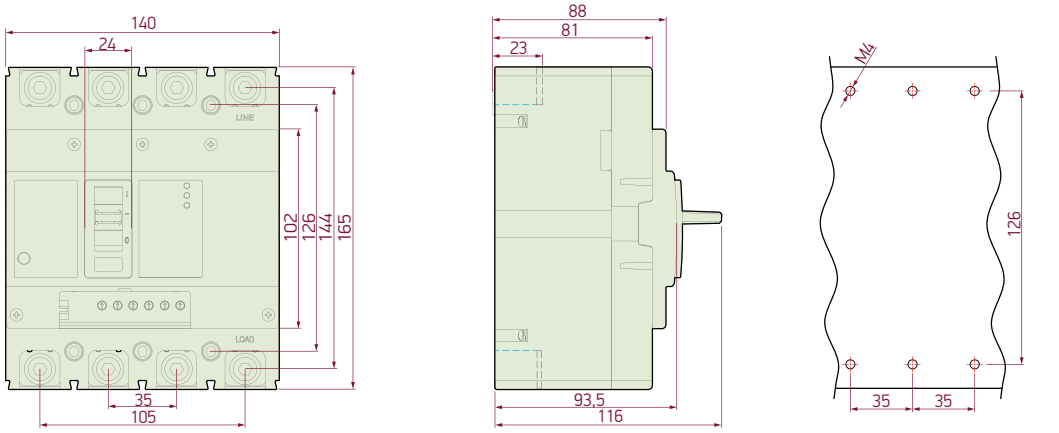
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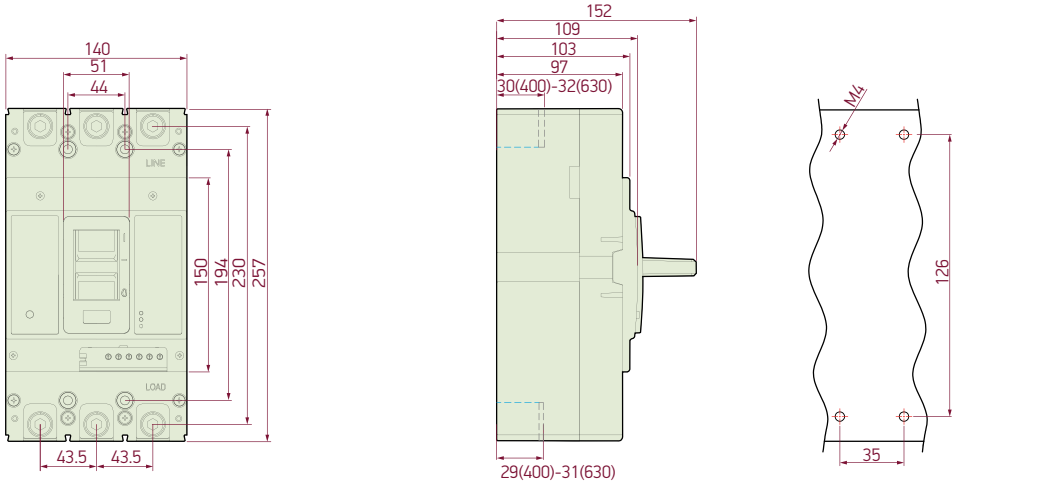
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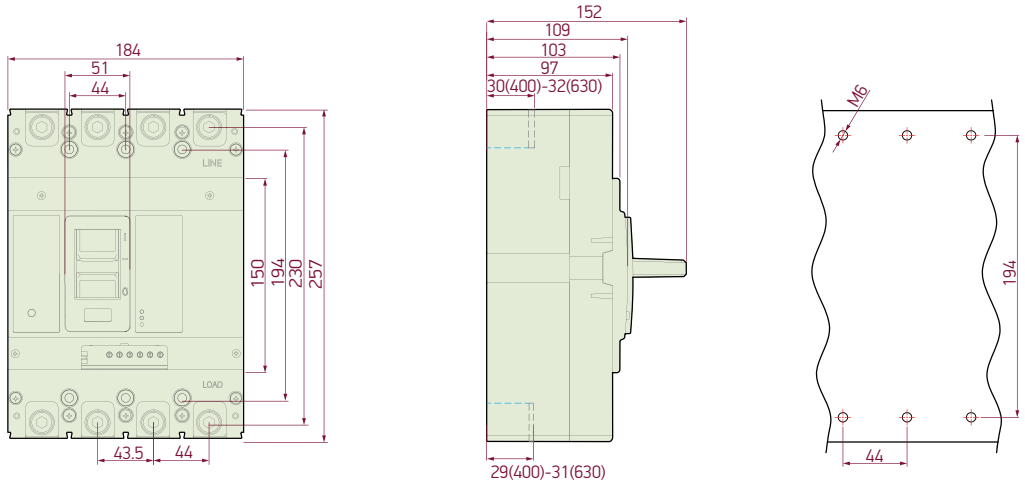
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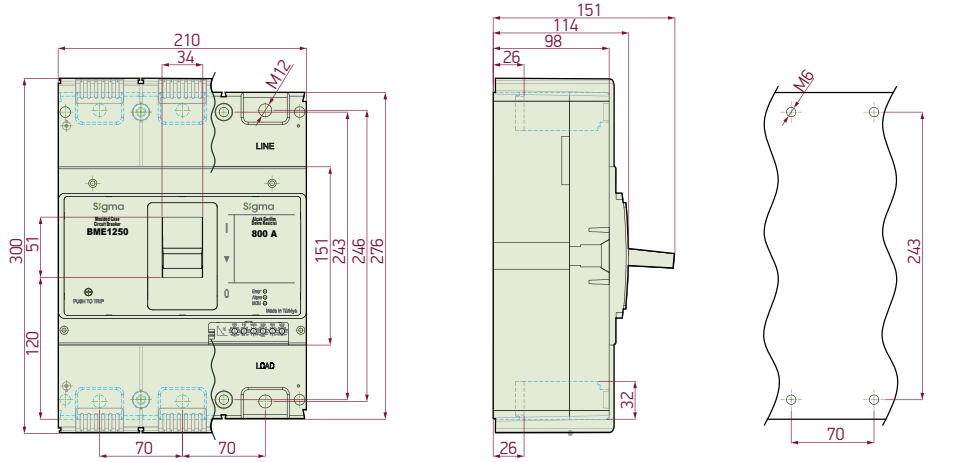
BME 400-630



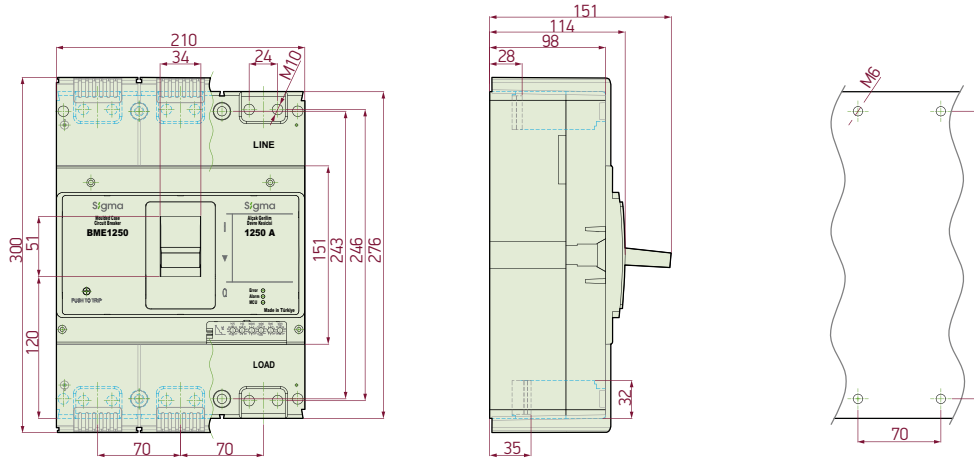
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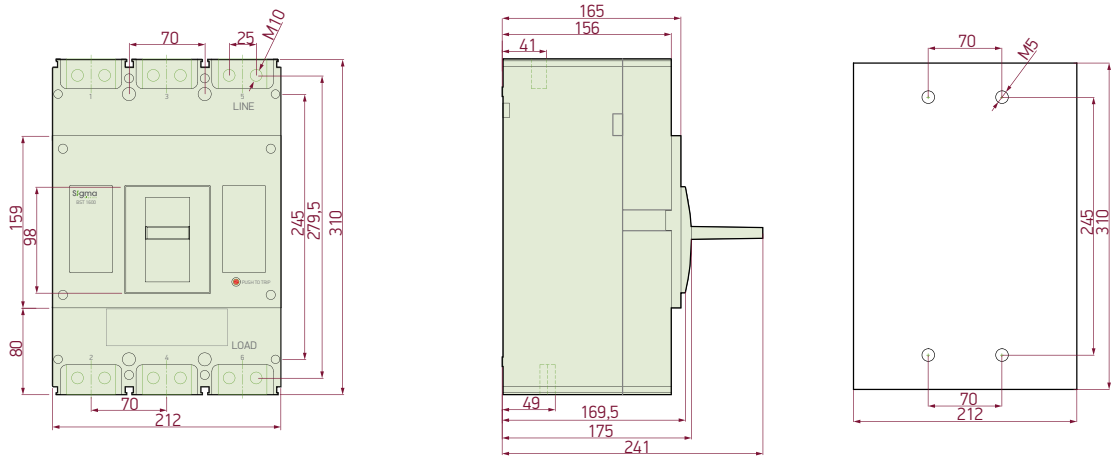
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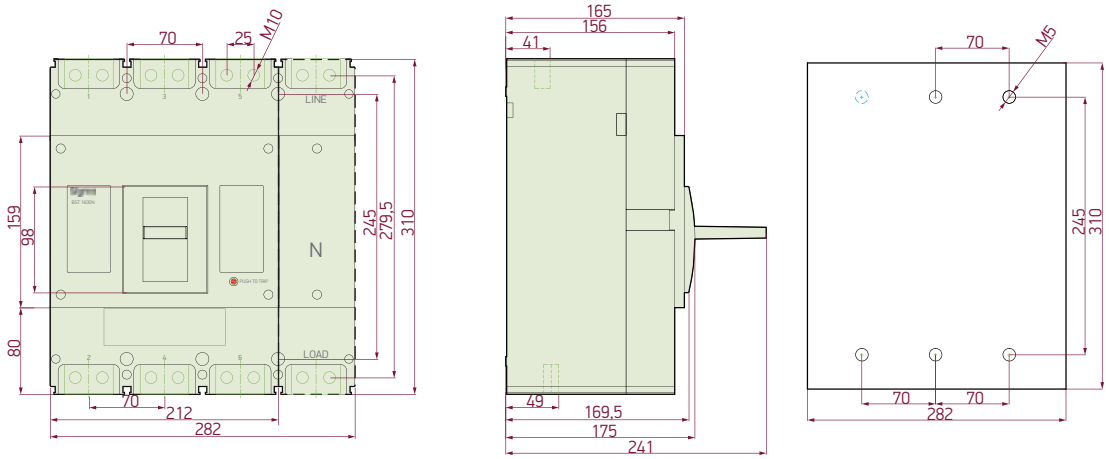
BME 1250 (1000A - 1250A)



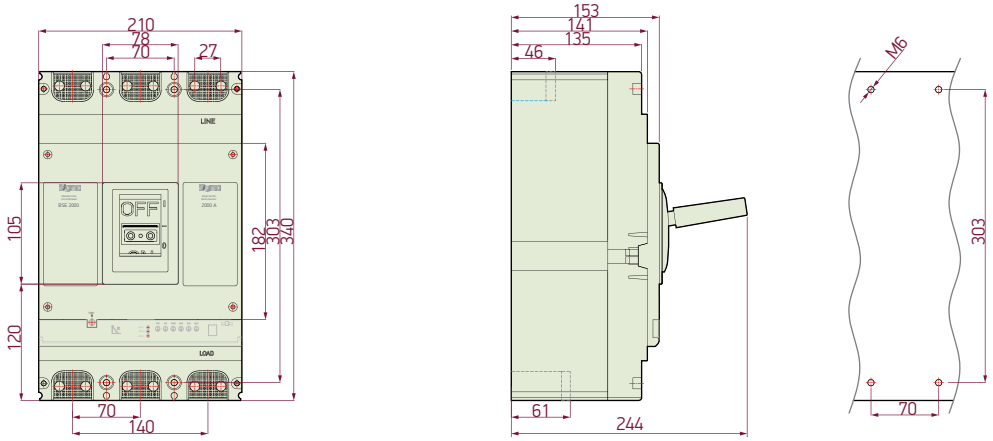
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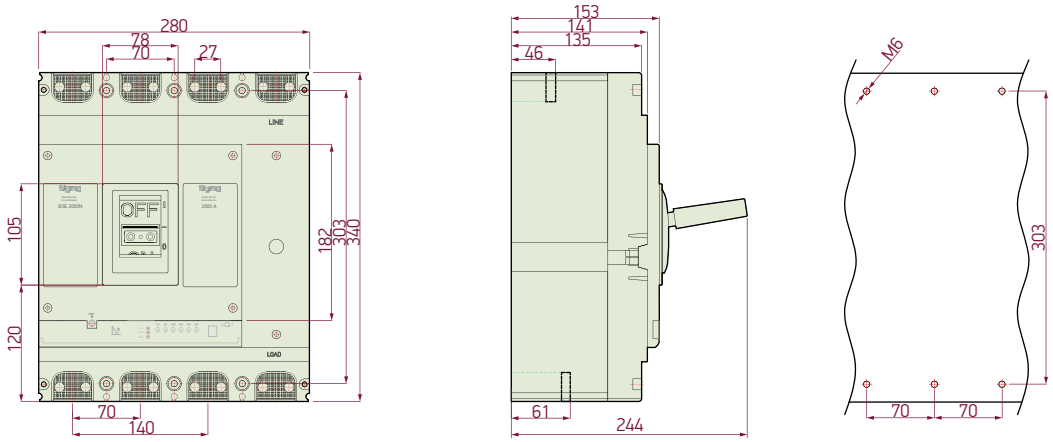
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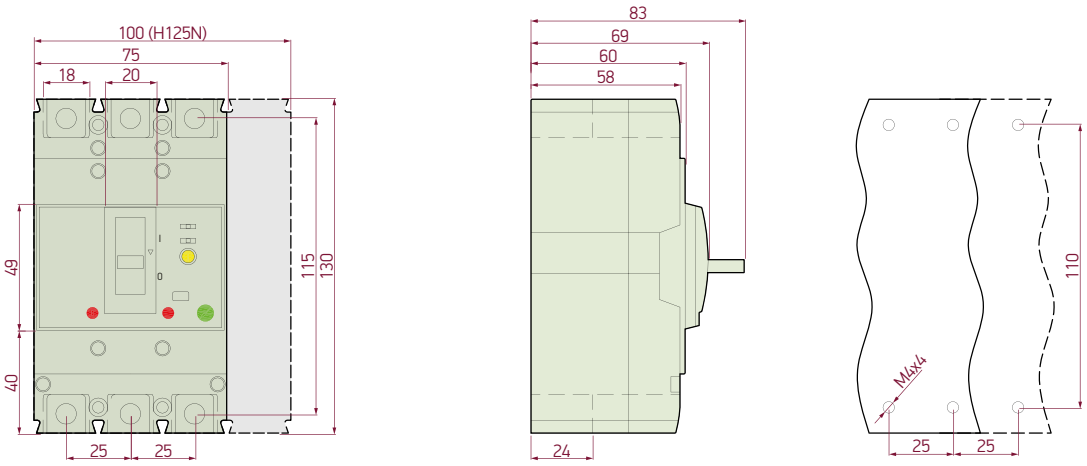
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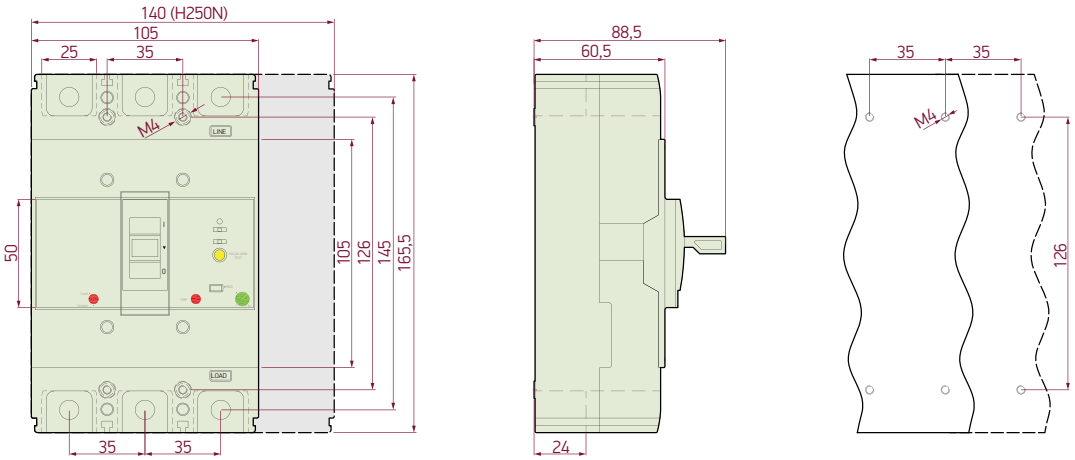
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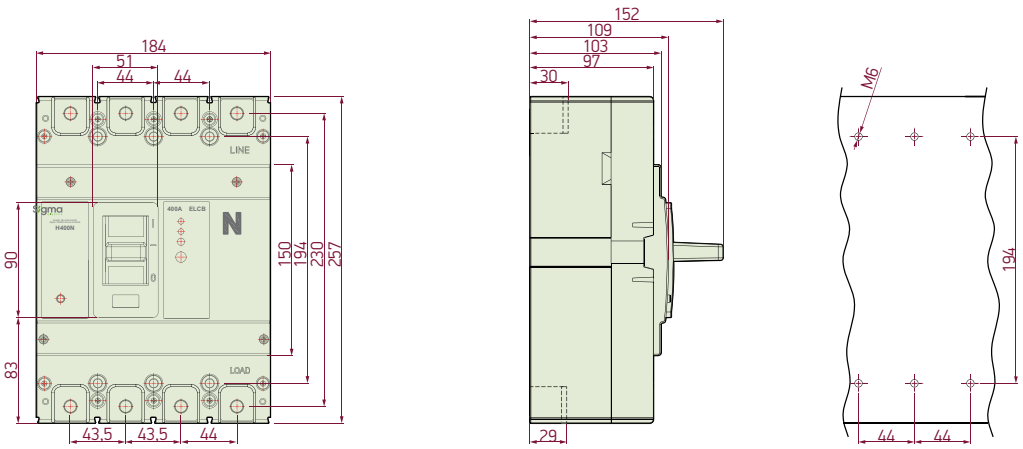
H125 - H125N



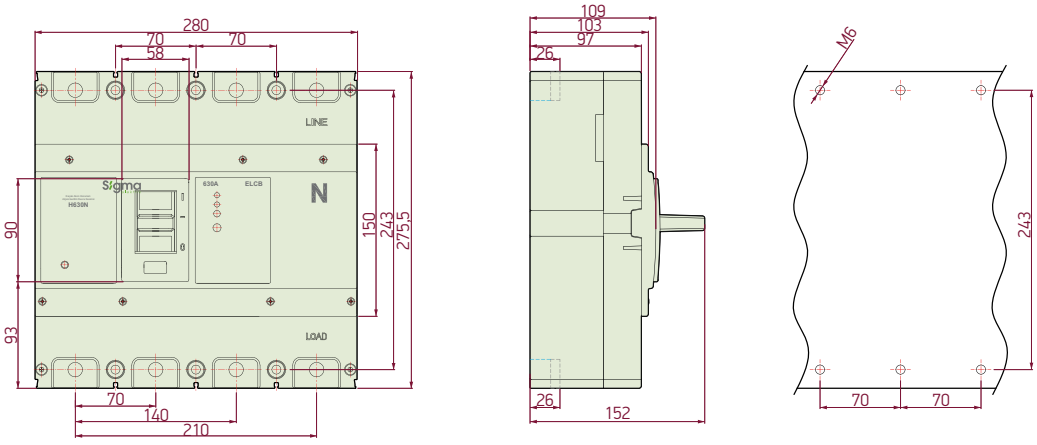
H250 - H250N



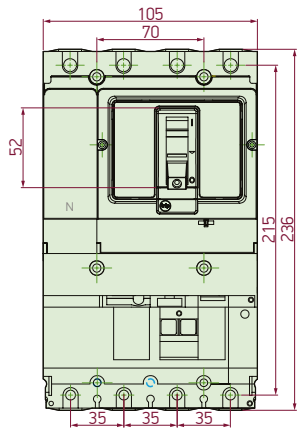
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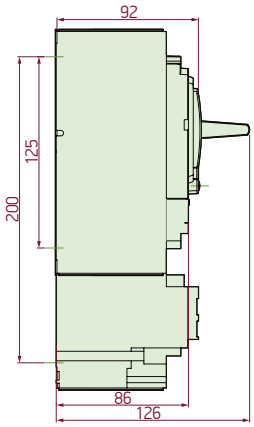


H630N

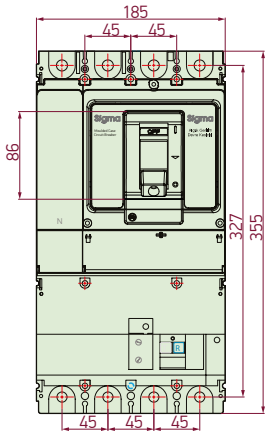


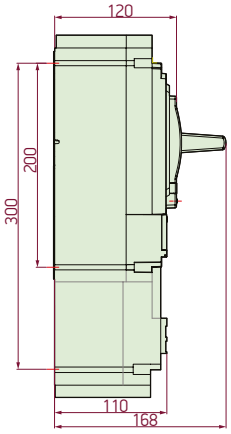
G250N


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70
52
215
236
35
35
35

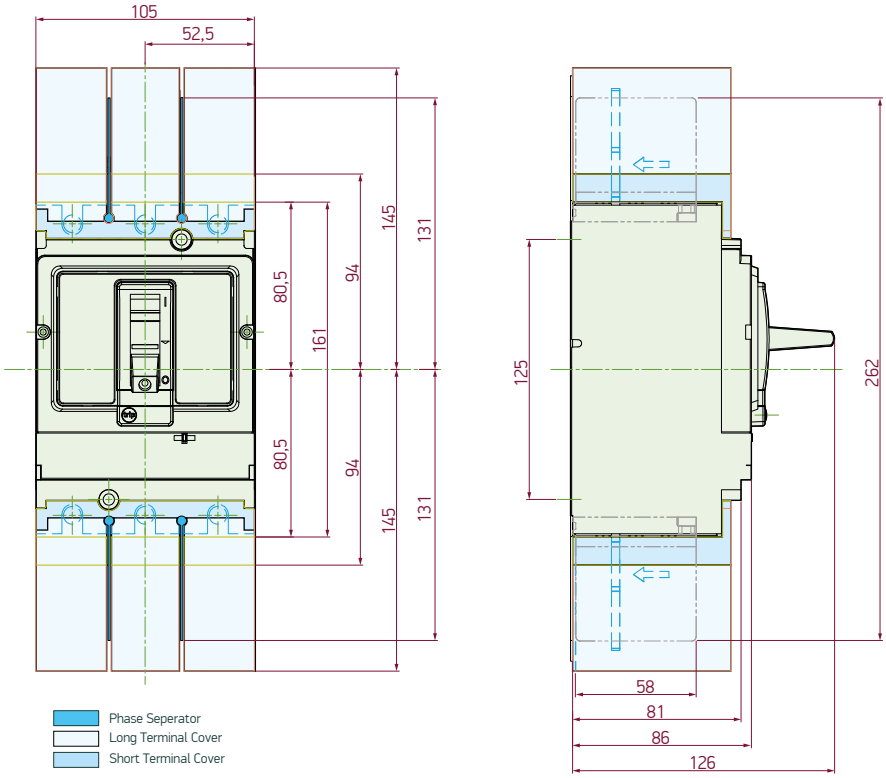

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125
200
86
126

G630N

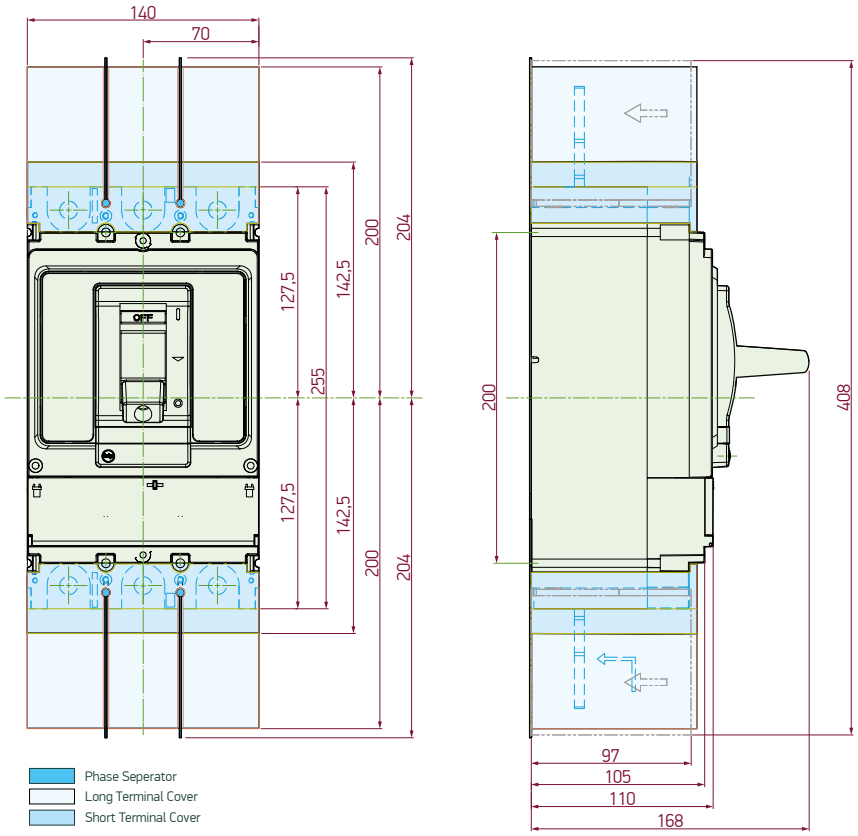

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45
45
86
327
355
45
45
45


120
200
300
110
168

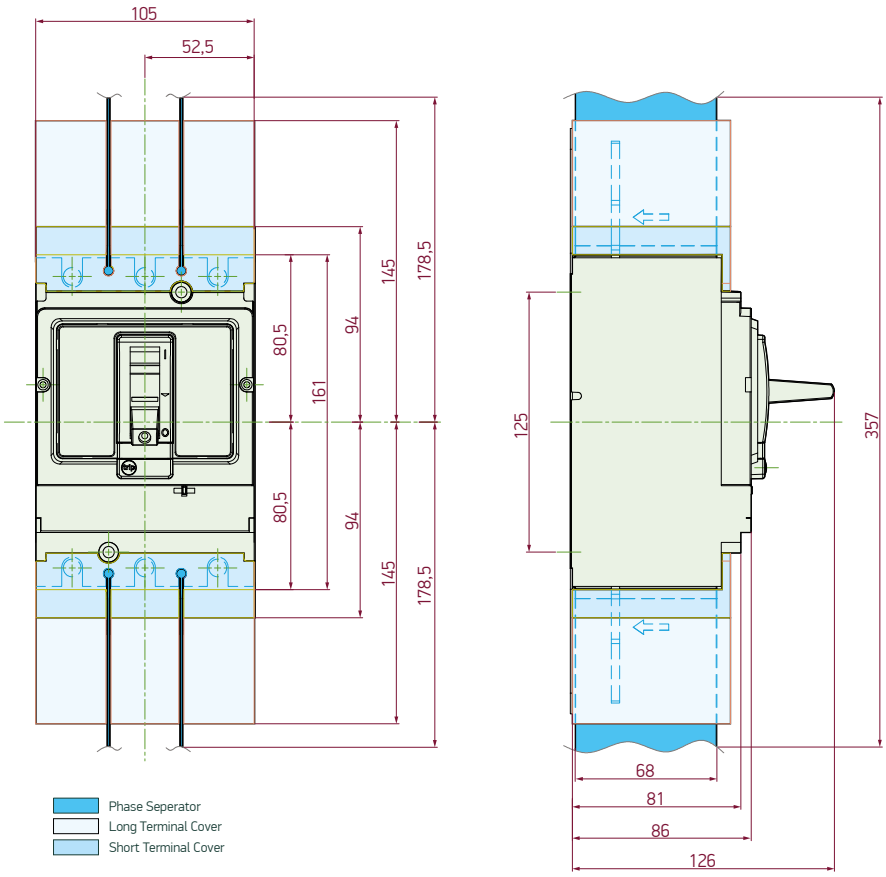
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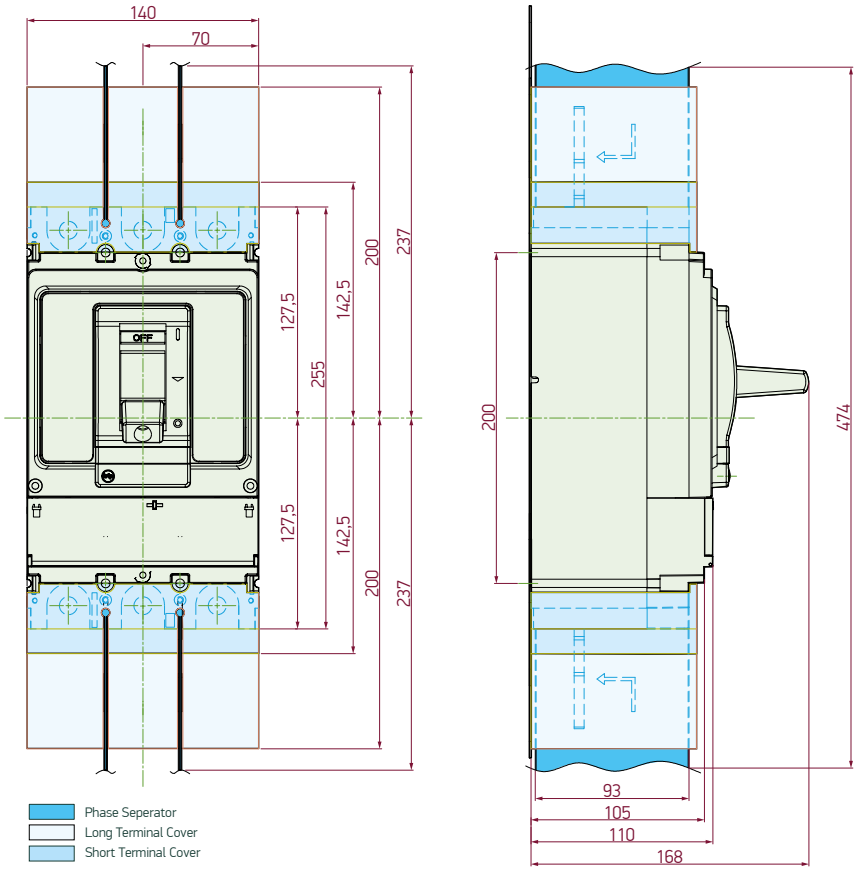
MLT-SLT-ULT 630



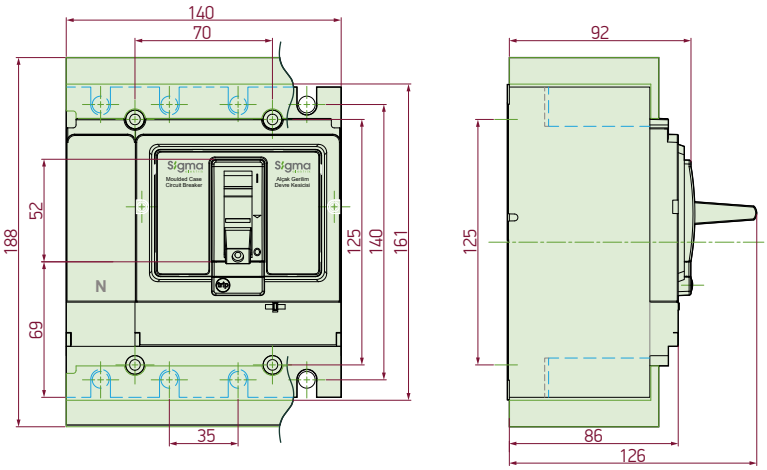
XLT160 - XLT250



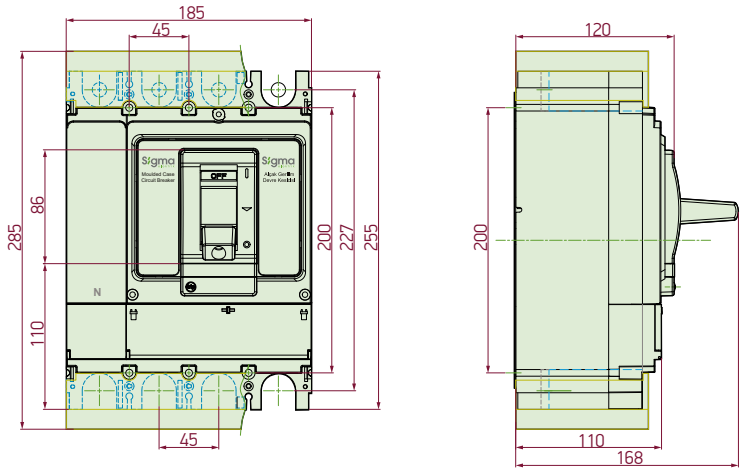
XLT400 - XLT630



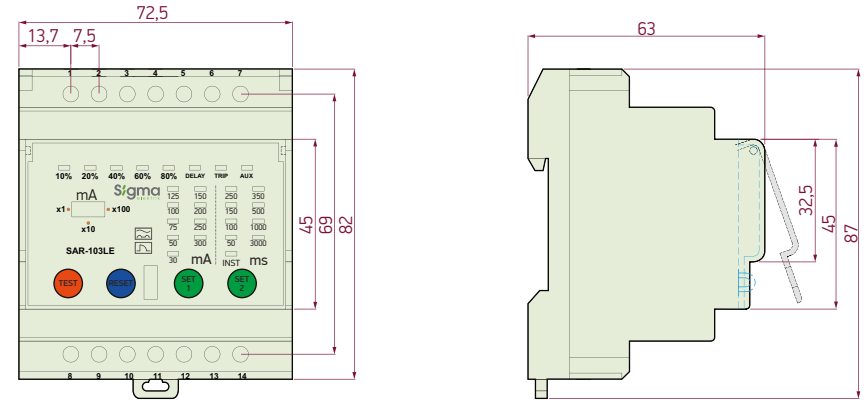
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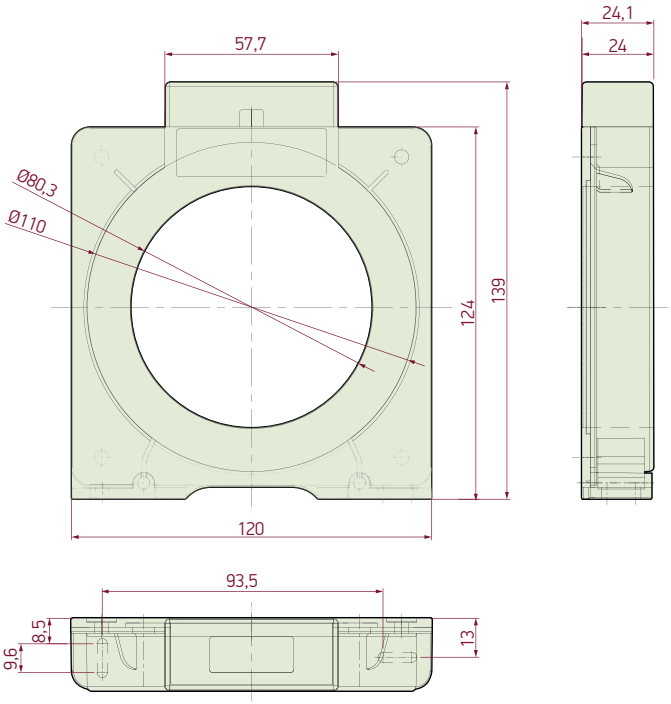
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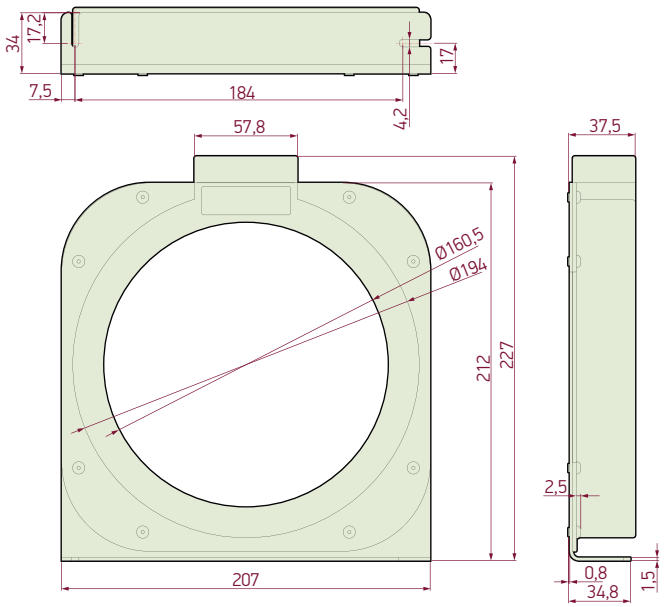
SAR-103LE



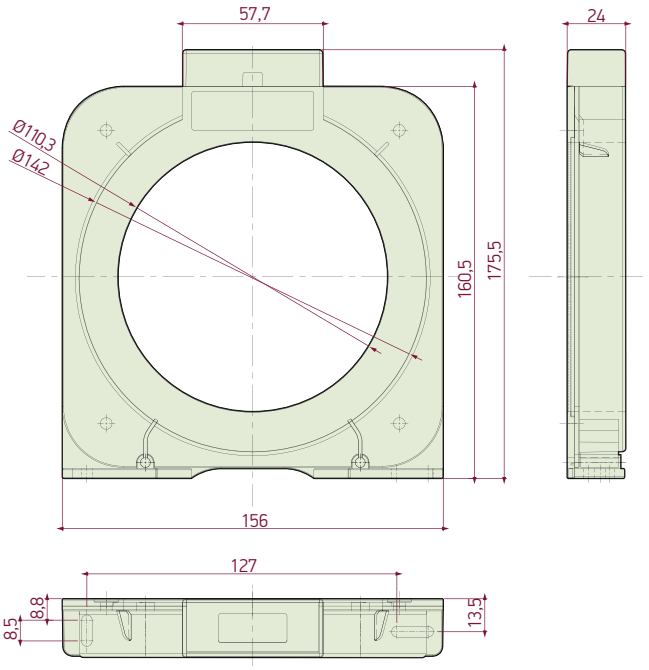
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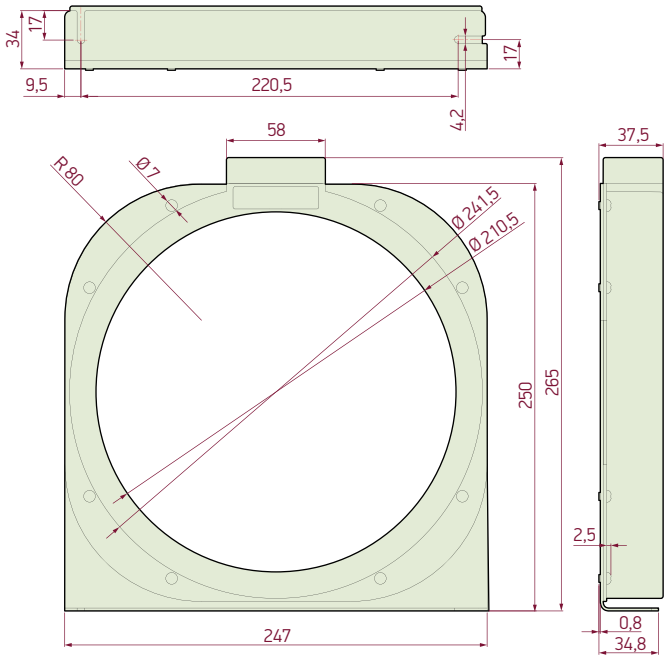
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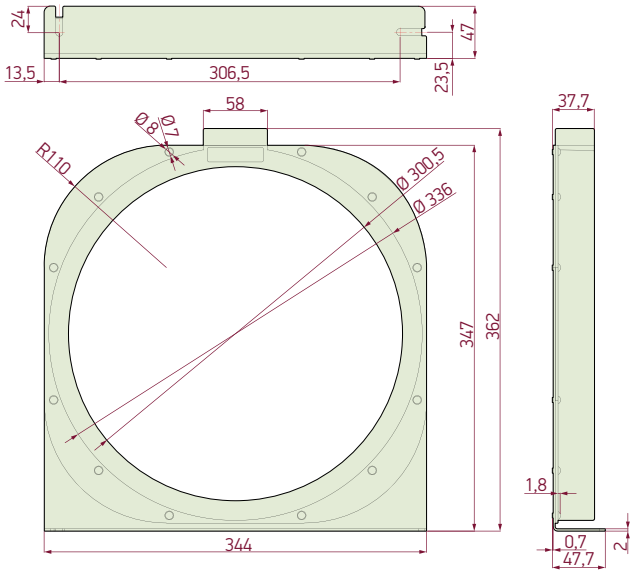
ST110



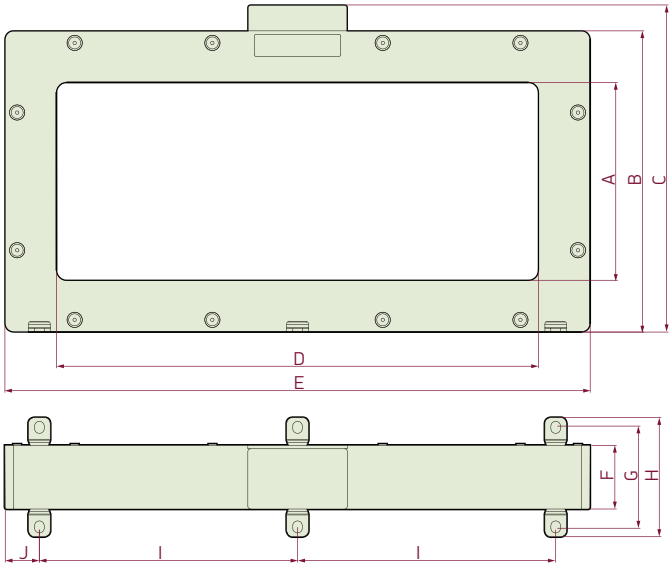
ST210



ST300

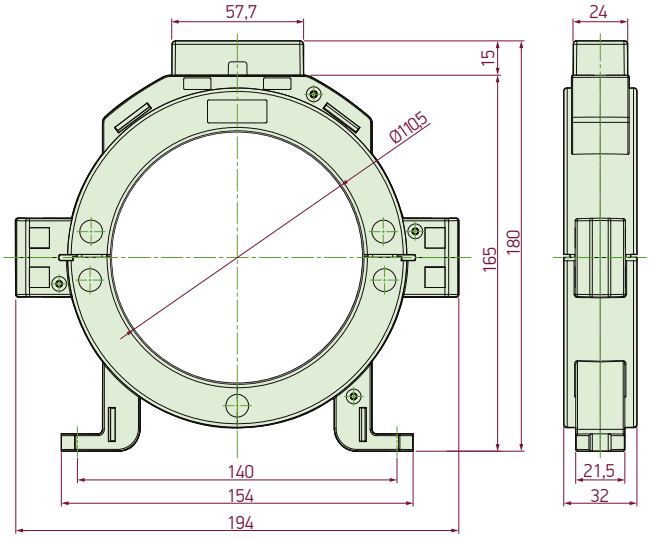


STD280x115 - STD470x160

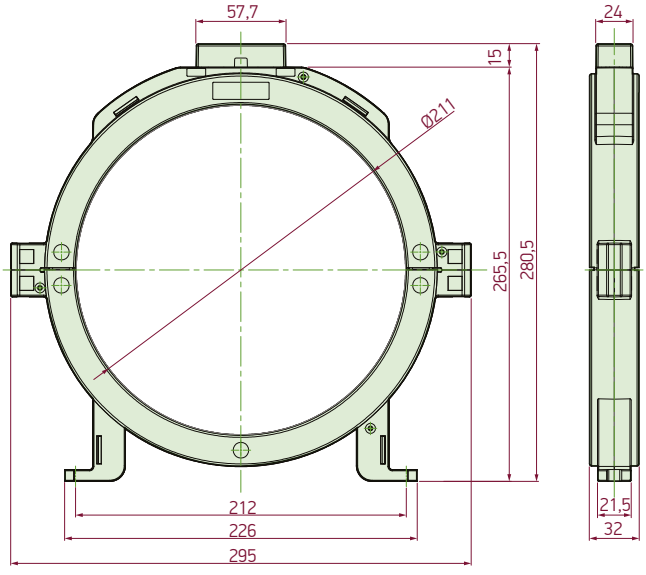


	A	B	C	D	E	F	G	H	I	J
STD280x115	115	175	190	280	340	37	59	69	150	20
STD470x160	161	234	249	471	546	37,5	64	78	180	-

STA-110



STA-210



Sigma elektrik



LOW VOLTAGE
AIR CIRCUIT BREAKERS

Air circuit breakers are designed as main breaker to protect electrical equipment against overload currents, short circuit currents and ground faults. They are suitable for use in power plants, factories, mines and smart building distribution systems, especially in buildings that are expected to draw high loads. When equipped with a motor mechanism, they are ready to get shut off at any time.

- 3 and 4 poles
- 42kA, 80kA, 100kA and 120kA short circuit breaking capacity
- Rated current from 630A to 6300A
- 1000V AC rated insulation voltage
- Possibility of maintenance and repair without cutting off system power with draw-out types
- Possibility to monitor phase voltages and phase currents on the LCD screen
- Showing phase information where the error occurred
- Versions that communicate via RS485
- Internal counter feature

LV Air Circuit Breakers - Technical Specifications

			SMA-1600 SCA-1600	SDA-2000 SFA-2000	SDA-3200 SFA-3200	SDA-4000 SFA-4000	SDA-6300 SFA-6300
Type of structure			Draw-Out/Fixed	Draw-Out/Fixed	Draw-Out/Fixed	Draw-Out/Fixed	Draw-Out/Fixed
Number of poles			3-4	3-4	3-4	3-4	3-4
Electrical specifications							
Rated current (at 40°C)		A	630, 800, 1000, 1250, 1600	630, 800, 1000, 1250, 1600, 2000	2500, 3200	4000	5000, 6300
Rated operating voltage	Ue	V AC	415	415	415	415	415
Rated insulation voltage	Ui	V	1000	1000	1000	1000	1000
Rated impulse withstand voltage	Uimp	KV	8	8	8	8	8
Breaking capacity							
Rated ultimate short circuit breaking capacity	(Icu)	690V AC	35	50	80	80	80
		415V AC	42	80	100	100	120
Rated service short circuit breaking capacity	Ics (kA)	690V AC	25	40	50	50	50
		415V AC	30	50	65	65	65
Utilization category			A, B	A, B	A, B	A, B	A, B
Pollution degree			3	3	3	3	3
Electrical life (No. operation)	ON-OFF	415V	500	1000	500	500	500
Mechanical life (No. operation)	ON-OFF		10000	10000	10000	8000	8000
Protection unit			Electronic	Electronic	Electronic	Electronic	Electronic
Long time delay current	Ir1	A	(0,4-1)xIn	(0,4-1)xIn	(0,4-1)xIn	(0,4-1)xIn	(0,4-1)xIn
Long time delay time	t1	sec	0-480	0-480	0-480	0-480	0-480
Short time delay current	Ir2	A	(0,4-15)xIn	(0,4-15)xIn	(0,4-15)xIn	(0,4-15)xIn	(0,4-15)xIn
Short time delay time	t1	sec	0.1-1	0,1-1	0,1-1	0,1-1	0,1-1
Instantaneous breaking current	Ir3	A	In ... 50kA +OFF	In ... 50kA +OFF	In ... 50kA +OFF	In ... 50kA +OFF	In ... 50kA +OFF
Earth fault current	Ir4	A	(0,2-0.8)xIn+OFF	(0,2-0,8)xIn+OFF	(0,2-0,8)xIn+OFF	(0,2-0,8)xIn.OFF	(0,2-0,8)xIn.OFF
Operating ambient temperature		°C	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70
Storage temperature		°C	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
Relative humidity		%	95	95	95	95	95
Accessories							
Shunt trip coil		230V AC	On request	On request	On request	On request	On request
Undervoltage coil		230V AC	On request	On request	On request	On request	On request
Delay type undervoltage coil		230V AC	On request	On request	On request	On request	On request
Closing coil		230V AC	On request	On request	On request	On request	On request
Auxiliary contact		4NO+4NC	Standard	Standard	Standard	Standard	Standard
Motor operator		230V AC	On request	On request	On request	On request	On request
Mechanical interlock			On request	On request	On request	On request	On request
Counter			Standard	Standard	Standard	Standard	Standard

Protection Specifications for Air Circuit Breakers

Long-Time Delay Overcurrent Protection

Setting Current (Ir1)	Error	Current	Tripping Time (sec)						Time Error
(0.4~1)xIn	±%10	1.05xIr1	<2h non-tripping						
		1.30xIr1	<1h trip						
		1.5x Ir1 (t1)	15	30	60	120	240	480	±10%
		2.0xIr1	8.4	16.9	33.7	67.5	135	270	±10%

Short-Time Delay Overcurrent Protection

Setting Current (Ir1)	Error	Current	Tripping Time (sec)				Time Error
(0,4~15)xIr2	±%10	≤0.9xIr2	<2h non-tripping				
		>1.1xIr2	<1h trip				
		Delay setting (ts)	0.1	0.2	0.3	0.4	±15%
		>8xIr2	0.06	0.14	0.23	0.35	±15%

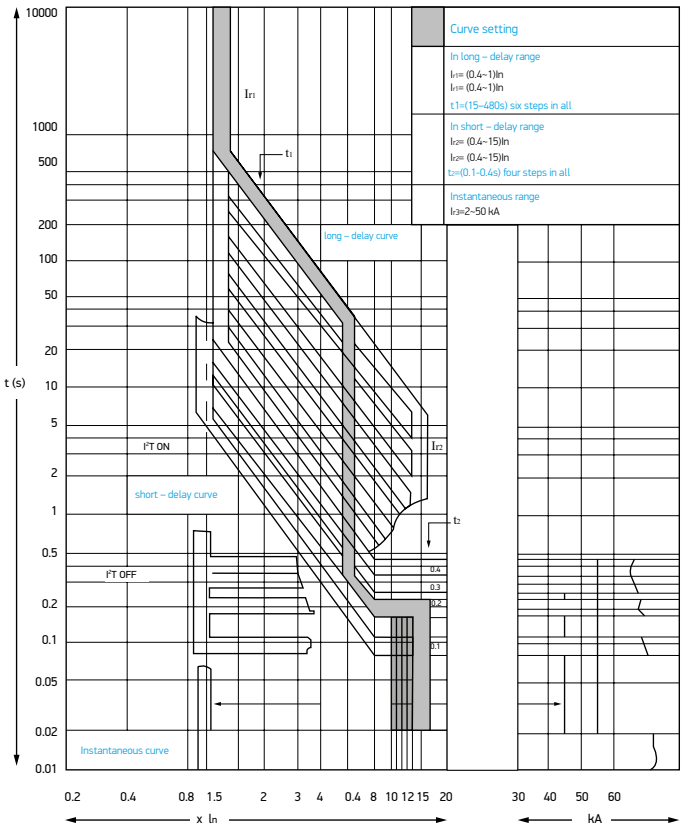
Instantaneous Tripping Protection

Setting Current (Ir1)	Error	Current	Time Error
1.0 In~50kA	±%15	≤0.85Ir3	non-tripping
		>1.15Ir3	trip

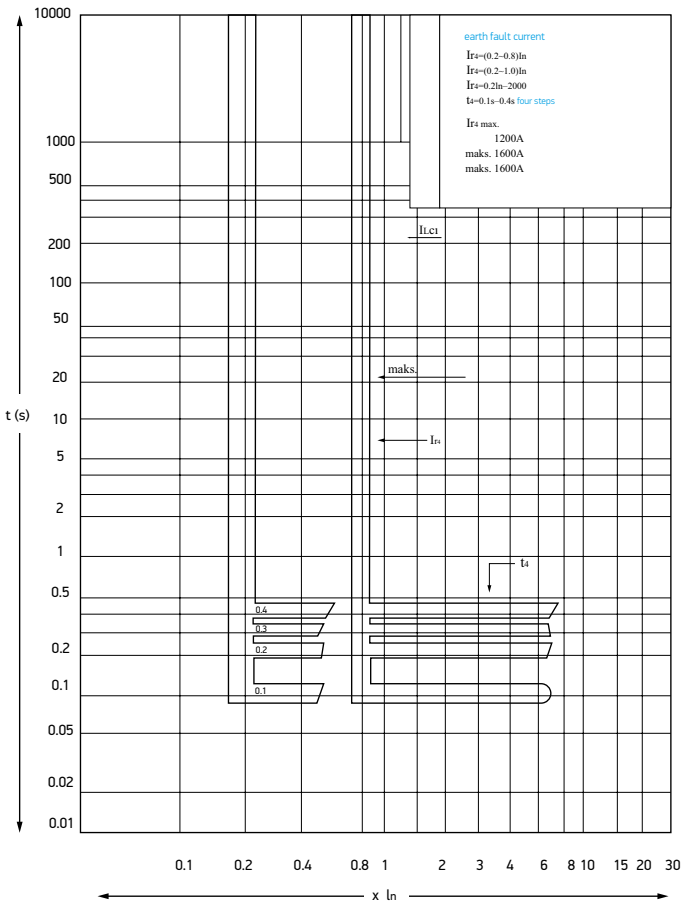
Ground Fault Protection

Setting Current (Ir1)	Error	Current	Tripping Time (sec)				Time Error
(0.2~0.8)Ir4	±%10	≤0.9xIr4	non-tripping				
		>1.10Ir4	Tripping				
		Tripping time (sec)	0.1	0.2	0.3	0.4	±15%

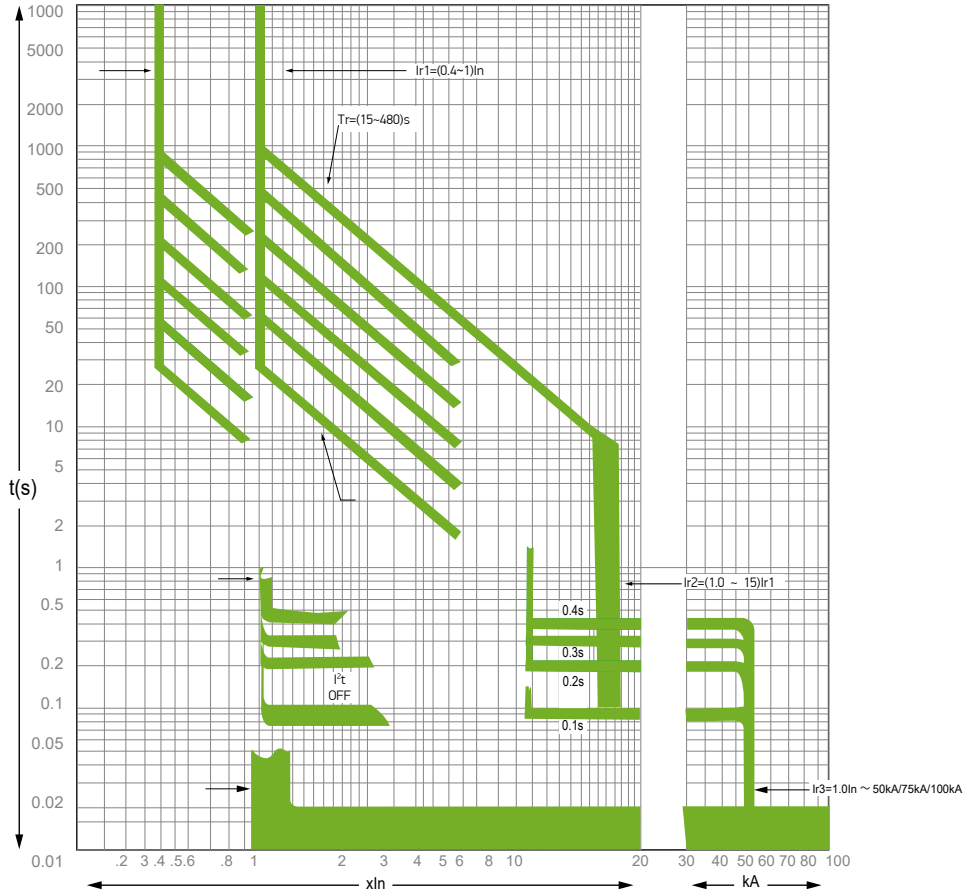
Overcurrent Protection Current-Time Curve



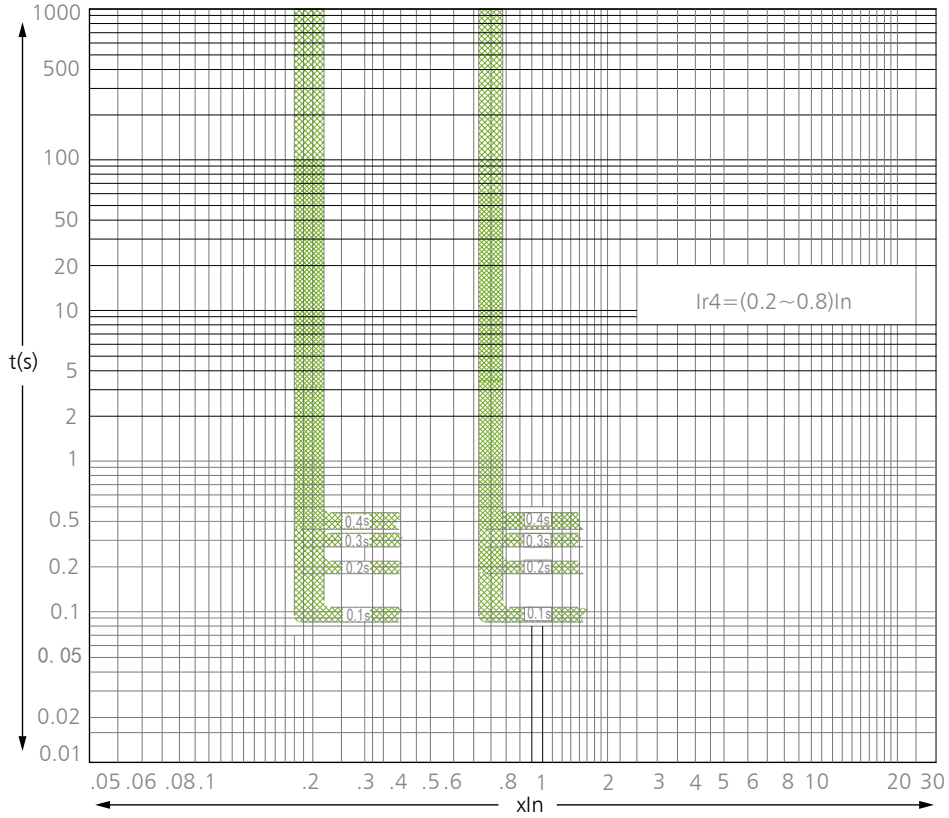
Ground Fault Protection Current-Time Curve



Overload Time-Current Characteristic for ACB



Ground Fault Protection Time-Current Characteristic for ACB



3 Poles, Fixed Type, Air Circuit Breakers (LSIG protection)



Type Code	New Product	Rated Current In (A)	Adjustable Current Range (Ir1)	Breaking Capacity (Icu)	Operation Mechanism	Order Code	Order Code (with RS485)
SMA-1600	New	630	252-630	42 kA	Manual	SMA0630H3	—
	New	800	320-800	42 kA	Manual	SMA0800H3	—
	New	1000	400-1000	42 kA	Manual	SMA1000H3	—
	New	1250	500-1250	42 kA	Manual	SMA1250H3	—
	New	1600	640-1600	42 kA	Manual	SMA1600H3	—
SFA-2000		630	252-630	80 kA	Manual	SFA0630H3	SFA0630H3C
		800	320-800	80 kA	Manual	SFA0800H3	SFA0800H3C
		1000	400-1000	80 kA	Manual	SFA1000H3	SFA1000H3C
		1250	500-1250	80 kA	Manual	SFA1250H3	SFA1250H3C
		1600	640-1600	80 kA	Manual	SFA1600H3	SFA1600H3C
		2000	1200-2000	80 kA	Manual	SFA2000H3	SFA2000H3C
SFA-3200		2500	1000-2500	100 kA	Manual	SFA2500H3	SFA2500H3C
		3200	1280-3200	100 kA	Manual	SFA3200H3	SFA3200H3C
SFA-4000		4000	1600-4000	100 kA	Manual	SFA4000H3	SFA4000H3C
SFA-6300	NEW	5000	2000-5000	120 kA	Manual	SFA5000H3	SFA5000H3C
	NEW	6300	2520-6300	120 kA	Manual	SFA6300H3	SFA6300H3C
SMA-1600	NEW	630	252-630	42 kA	Motorized	SMA0630M3	—
	NEW	800	320-800	42 kA	Motorized	SMA0800M3	—
	NEW	1000	400-1000	42 kA	Motorized	SMA1000M3	—
	NEW	1250	500-1250	42 kA	Motorized	SMA1250M3	—
	NEW	1600	640-1600	42 kA	Motorized	SMA1600M3	—
SFA-2000		630	252-630	80 kA	Motorized	SFA2000M3	SFA0630M3C
		800	320-800	80 kA	Motorized	SFA0800M3	SFA0800M3C
		1000	400-1000	80 kA	Motorized	SFA1000M3	SFA1000M3C
		1250	500-1250	80 kA	Motorized	SFA1250M3	SFA1250M3C
		1600	640-1600	80 kA	Motorized	SFA1600M3	SFA1600M3C
		2000	1200-2000	80 kA	Motorized	SFA2000M3	SFA2000M3C
SFA-3200		2500	1000-2500	100 kA	Motorized	SFA2500M3	SFA2500M3C
		3200	1280-3200	100 kA	Motorized	SFA3200M3	SFA3200M3C
SFA-4000		4000	1600-4000	100 kA	Motorized	SFA4000M3	SFA4000M3C
SFA-6300	NEW	5000	2000-5000	120 kA	Motorized	SFA5000H3	SFA5000H3C
	NEW	6300	2520-6300	120 kA	Motorized	SFA6300H3	SFA6300H3C

Note: All ACBs have 4NO+4NC auxiliary contacts as standard product.

3 Poles Draw-Out Type Air Circuit Breakers (LSIG protection)



Type Code	New Product	Rated Current In (A)	Adjustable Current Range (Ir1)	Breaking Capacity (Icu)	Operation Mechanism	Order Code	Order Code (with RS485)
SCA-1600	New	630	252-630	42 kA	Manual	SCA0630H3	—
	New	800	320-800	42 kA	Manual	SCA0800H3	—
	New	1000	400-1000	42 kA	Manual	SCA1000H3	—
	New	1250	500-1250	42 kA	Manual	SCA1250H3	—
	New	1600	640-1600	42 kA	Manual	SCA1600H3	—
SDA-2000	New	630	252-630	80 kA	Manual	SDA0630H3	SDA0630H3C
	New	800	320-800	80 kA	Manual	SDA0800H3	SDA0800H3C
		1000	400-1000	80 kA	Manual	SDA1000H3	SDA1000H3C
		1250	500-1250	80 kA	Manual	SDA1250H3	SDA1250H3C
		1600	640-1600	80 kA	Manual	SDA1600H3	SDA1600H3C
		2000	1200-2000	80 kA	Manual	SDA2000H3	SDA2000H3C
SDA-3200		2500	1000-2500	100 kA	Manual	SDA2500H3	SDA2500H3C
		3200	1280-3200	100 kA	Manual	SDA3200H3	SDA3200H3C
SDA-4000		4000	1600-4000	100 kA	Manual	SDA4000H3	SDA4000H3C
SDA-6300		5000	2000-5000	120 kA	Manual	SDA5000H3	SDA5000H3C
		6300	2560-6300	120 kA	Manual	SDA6300H3	SDA6300H3C
SCA-1600	New	630	252-630	42 kA	Motorized	SCA0630M3	—
	New	800	320-800	42 kA	Motorized	SCA0800M3	—
	New	1000	400-1000	42 kA	Motorized	SCA1000M3	—
	New	1250	500-1250	42 kA	Motorized	SCA1250M3	—
	New	1600	640-1600	42 kA	Motorized	SCA1600M3	—
SDA-2000	New	630	252-630	80 kA	Motorized	SDA0630M3	SDA0630M3C
	New	800	320-800	80 kA	Motorized	SDA0800M3	SDA0800M3C
		1000	400-1000	80 kA	Motorized	SDA1000M3	SDA1000M3C
		1250	500-1250	80 kA	Motorized	SDA1250M3	SDA1250M3C
		1600	640-1600	80 kA	Motorized	SDA1600M3	SDA1600M3C
		2000	1200-2000	80 kA	Motorized	SDA2000M3	SDA2000M3C
SDA-3200		2500	1000-2500	100 kA	Motorized	SDA2500M3	SDA2500M3C
		3200	1280-3200	100 kA	Motorized	SDA3200M3	SDA3200M3C
SDA-4000		4000	1600-4000	100 kA	Motorized	SDA4000M3	SDA4000M3C
SDA-6300		5000	2000-5000	120 kA	Motorized	SDA5000M3	SDA5000M3C
		6300	2560-6300	120 kA	Motorized	SDA6300M3	SDA6300M3C

Note: All ACBs have 4NO+4NC auxiliary contacts as standard product.

4 Poles, Fixed Type, Air Circuit Breakers (LSIG protection)



Type Code	New Product	Rated Current In (A)	Adjustable Current Range (Ir1)	Breaking Capacity (Icu)	Operation Mechanism	Order Code	Order Code (with RS485)
SMA-1600	New	630	252-630	42 kA	Manual	SMA0630H4	—
	New	800	320-800	42 kA	Manual	SMA0800H4	—
	New	1000	400-1000	42 kA	Manual	SMA1000H4	—
	New	1250	500-1250	42 kA	Manual	SMA1250H4	—
	New	1600	640-1600	42 kA	Manual	SMA1600H4	—
SFA-2000	New	630	252-630	80 kA	Manual	SFA0630H4	SFA0630H4C
	New	800	320-800	80 kA	Manual	SFA0800H4	SFA0800H4C
		1000	400-1000	80 kA	Manual	SFA1000H4	SFA1000H4C
		1250	500-1250	80 kA	Manual	SFA1250H4	SFA1250H4C
		1600	640-1600	80 kA	Manual	SFA1600H4	SFA1600H4C
		2000	1200-2000	80 kA	Manual	SFA2000H4	SFA2000H4C
SFA-3200		2500	1000-2500	100 kA	Manual	SFA2500H4	SFA2500H4C
		3200	1280-3200	100 kA	Manual	SFA3200H4	SFA3200H4C
SFA-4000	New	4000	1600-4000	100 kA	Manual	SFA4000H4	SFA4000H4C
SFA-6300	New	5000	2000-5000	120 kA	Manual	SFA5000H4	SFA5000H4C
	New	6300	2520-6300	120 kA	Manual	SFA6300H4	SFA6300H4C
SMA-1600	New	630	252-630	42 kA	Motorized	SMA0630M4	—
	New	800	320-800	42 kA	Motorized	SMA0800M4	—
	New	1000	400-1000	42 kA	Motorized	SMA1000M4	—
	New	1250	500-1250	42 kA	Motorized	SMA1250M4	—
	New	1600	640-1600	42 kA	Motorized	SMA1600M4	—
SFA-2000	New	630	252-630	80 kA	Motorized	SFA0630M4	SFA0630M4C
	New	800	320-800	80 kA	Motorized	SFA0800M4	SFA0800M4C
		1000	400-1000	80 kA	Motorized	SFA1000M4	SFA1000M4C
		1250	500-1250	80 kA	Motorized	SFA1250M4	SFA1250M4C
		1600	640-1600	80 kA	Motorized	SFA1600M4	SFA1600M4C
		2000	1200-2000	80 kA	Motorized	SFA2000M4	SFA2000M4C
SFA-3200		2500	1000-2500	100 kA	Motorized	SFA2500M4	SFA2500M4C
		3200	1280-3200	100 kA	Motorized	SFA3200M4	SFA3200M4C
SFA-4000	New	4000	1600-4000	100 kA	Motorized	SFA4000M4	SFA4000M4C
SFA-6300	New	5000	2000-5000	120 kA	Motorized	SFA5000M4	SFA5000M4C
	New	6300	2520-6300	120 kA	Motorized	SFA6300M4	SFA6300M4C

4 Poles Draw-Out Type Air Circuit Breakers (LSIG protection)



Type Code	New Product	Rated Current In (A)	Adjustable Current Range (Ir1)	Breaking Capacity (Icu)	Operation Mechanism	Order Code	Order Code (with RS485)
SCA-1600	New	630	252-630	42 kA	Manual	SCA0630H4	—
	New	800	320-800	42 kA	Manual	SCA0800H4	—
	New	1000	400-1000	42 kA	Manual	SCA1000H4	—
	New	1250	500-1250	42 kA	Manual	SCA1250H4	—
	New	1600	640-1600	42 kA	Manual	SCA1600H4	—
SDA-2000	New	630	252-630	80 kA	Manual	SDA0630H4	SDA0630H4C
	New	800	320-800	80 kA	Manual	SDA0800H4	SDA0800H4C
		1000	400-1000	80 kA	Manual	SDA1000H4	SDA1000H4C
		1250	500-1250	80 kA	Manual	SDA1250H4	SDA1250H4C
		1600	640-1600	80 kA	Manual	SDA1600H4	SDA1600H4C
		2000	1200-2000	80 kA	Manual	SDA2000H4	SDA2000H4C
SDA-3200		2500	1000-2500	100 kA	Manual	SDA2500H4	SDA2500H4C
		3200	1280-3200	100 kA	Manual	SDA3200H4	SDA3200H4C
SDA-4000		4000	1600-4000	100 kA	Manual	SDA4000H4	SDA4000H4C
SDA-6300	New	5000	2000-5000	120 kA	Manual	SDA5000H4	SDA5000H4C
	New	6300	2520-6300	120 kA	Manual	SDA6300H4	SDA6300H4C
SCA-1600	New	630	252-630	42 kA	Motorized	SCA0630M4	—
	New	800	320-800	42 kA	Motorized	SCA0800M4	—
	New	1000	400-1000	42 kA	Motorized	SCA1000M4	—
	New	1250	500-1250	42 kA	Motorized	SCA1250M4	—
	New	1600	640-1600	42 kA	Motorized	SCA1600M4	—
SDA-2000	New	630	252-630	80 kA	Motorized	SDA0630M4	SDA0630M4C
	New	800	320-800	80 kA	Motorized	SDA0800M4	SDA0800M4C
		1000	400-1000	80 kA	Motorized	SDA1000M4	SDA1000M4C
		1250	500-1250	80 kA	Motorized	SDA1250M4	SDA1250M4C
		1600	640-1600	80 kA	Motorized	SDA1600M4	SDA1600M4C
		2000	1200-2000	80 kA	Motorized	SDA2000M4	SDA2000M4C
SDA-3200		2500	1000-2500	100 kA	Motorized	SDA2500M4	SDA2500M4C
		3200	1280-3200	100 kA	Motorized	SDA3200M4	SDA3200M4C
SDA-4000		4000	1600-4000	100 kA	Motorized	SDA4000M4	SDA4000M4C
SDA-6300	New	5000	2000-5000	120 kA	Motorized	SDA5000M4	SDA5000M4C
	New	6300	2520-6300	120 kA	Motorized	SDA6300M4	SDA6300M4C

Accessories









Type Code	New Product	Description	Features	Suitable Air Circuit Breakers	Order Code
SAAB		Shunt Trip Coil	230V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SAAB
SMAB	NEW	Shunt Trip Coil	230V AC	SMA-1600, SCA-1600	SMAB
SAKB		Closing Coil	230V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SAKB
SMKB	NEW	Closing Coil	230V AC	SMA-1600, SCA-1600	SMKB
SADG		Undervoltage Release - Without Delay	230V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SADG230
		Undervoltage Release - Without Delay	400V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SADG400
SMDG	NEW	Undervoltage Release - Without Delay	230V AC	SMA-1600, SCA-1600	SMDG230
	NEW	Undervoltage Release - Without Delay	400V AC	SMA-1600, SCA-1600	SMDG400
SAGDG		Undervoltage Release - With Delay	230V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SAGDG230
		Undervoltage Release - With Delay	400V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SAGDG400
SMGDG	NEW	Undervoltage Release - With Delay	230V AC	SMA-1600, SCA-1600	SMGDG230
	NEW	Undervoltage Release - With Delay	400V AC	SMA-1600, SCA-1600	SMGDG400
SRTC*	NEW	Undervoltage Release (with delay) + Closing Coil + RTC Switch	230V AC	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SRTC-230AC
SMM	NEW	Motor Operator (630 ... 1600A)	230V AC	SMA-1600, SCA-1600	SMM
SAM-1		Motor Operator (630 ... 2000A)	230V AC	SFA-2000, SDA-2000	SAM1
SAM-2		Motor Operator (2500 ... 6300A)	230V AC	SFA-3200, SFA-4000 SDA-3200, SDA-4000	SAM2
SAM-3		Motor Operator (5000 ... 6300A)	230V AC	SFA-6300, SDA-6300	SAM3
SAMK		Mechanical Interlock	Wire Type	SFA-2000, SFA-3200, SFA-4000, SFA-6300, SDA-2000, SDA-3200, SDA-4000, SDA-6300	SAMK
SMAK	NEW	Mechanical Interlock	Wire Type	SMA-1600	SMAK
SCAK		Mechanical Interlock	Wire Type	SCA-1600	SCAK

Note: When performing transfer operation in air circuit breakers, low voltage coil and closing coil should not be activated at the same time. To prevent this situation, it is recommended to use a undervoltage Release (with delay) + closing coil + RTC switch combination.

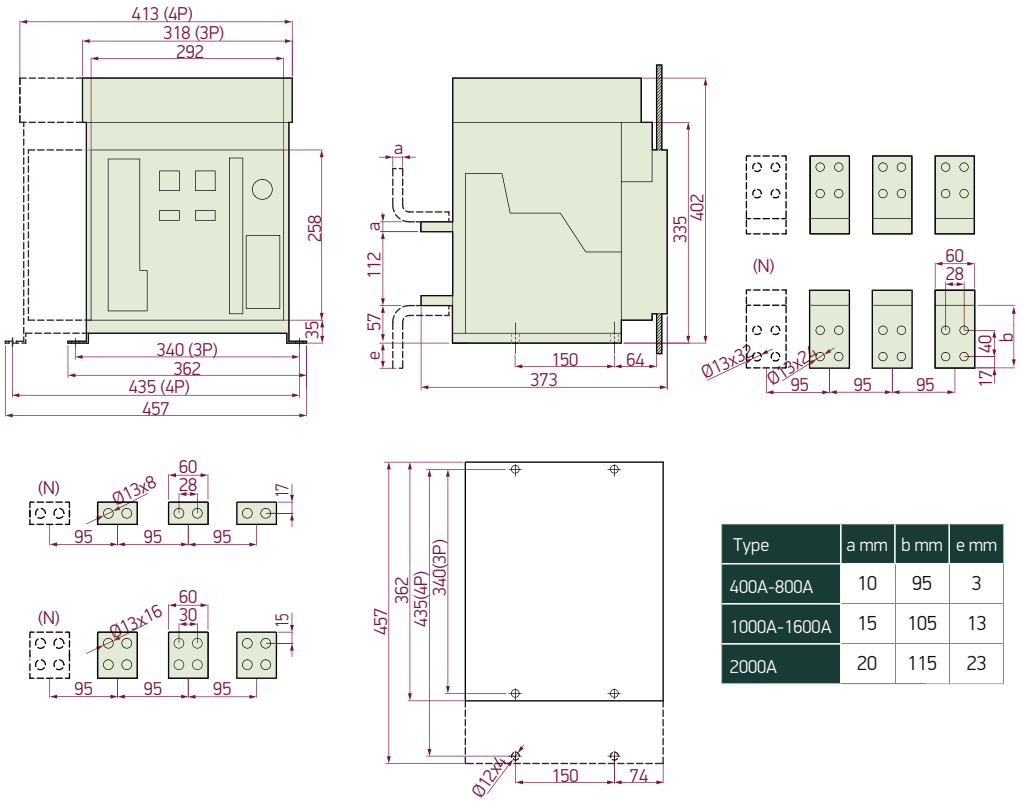
Compact Design, Superior Performance!

New Serie Sigma **42kA** **SCA & SMA** Air Circuit Breakers



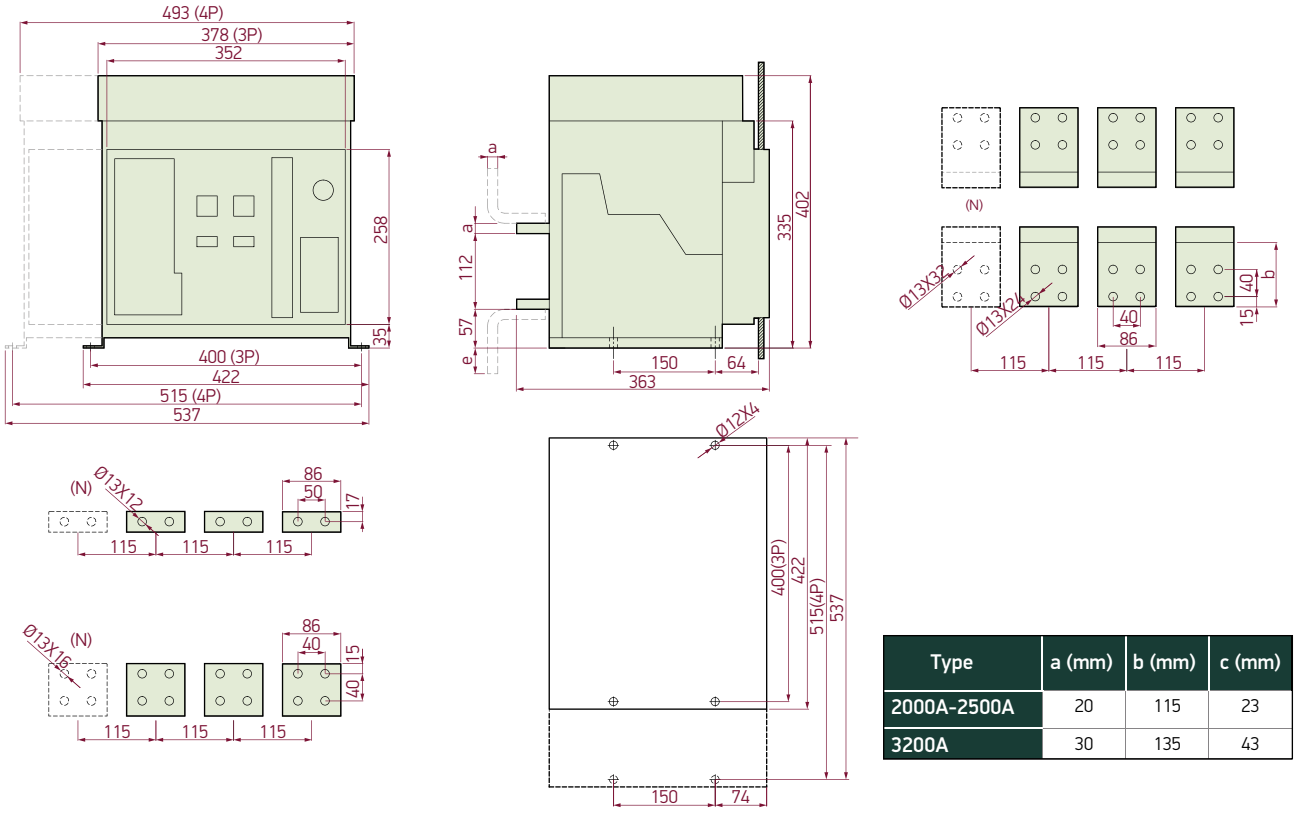
Dimensions

SFA-1600, SFA-2000 - SFA-1600(N), SFA-2000(N)



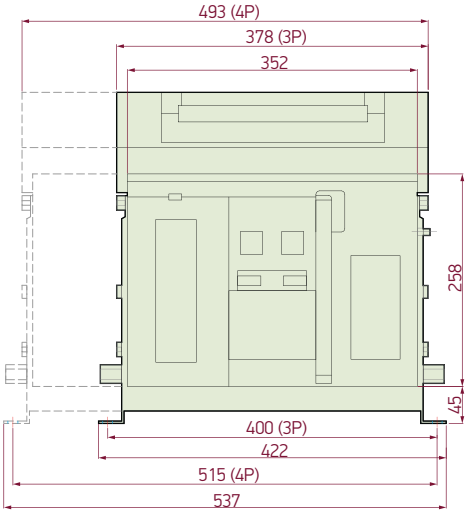
Type	a mm	b mm	e mm
400A-800A	10	95	3
1000A-1600A	15	105	13
2000A	20	115	23

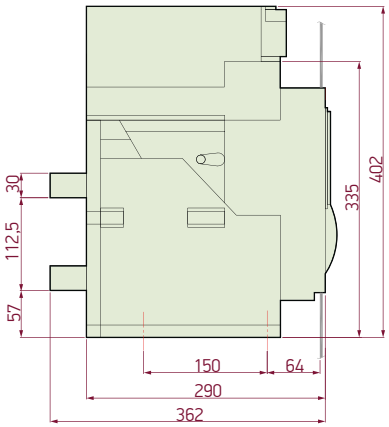
SFA-2500, SFA-3200 - SFA-2500(N), SFA-3200(N)

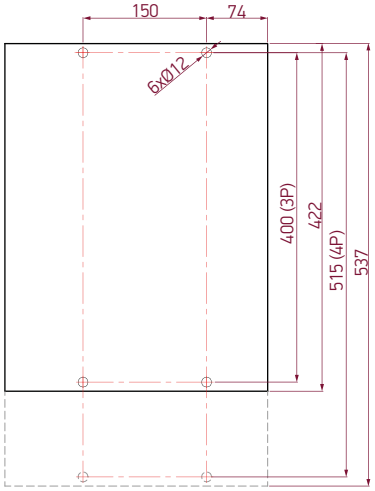


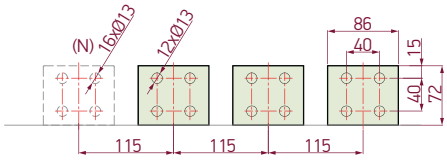
Type	a (mm)	b (mm)	c (mm)
2000A-2500A	20	115	23
3200A	30	135	43

SFA-4000

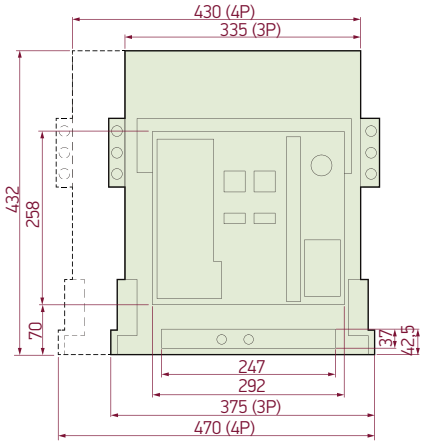


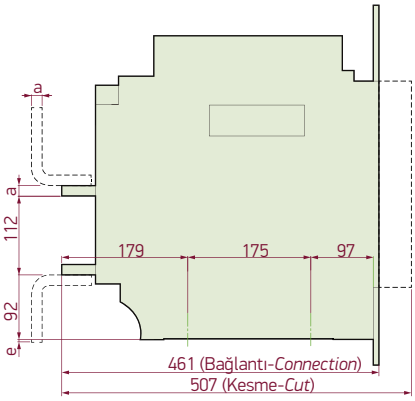


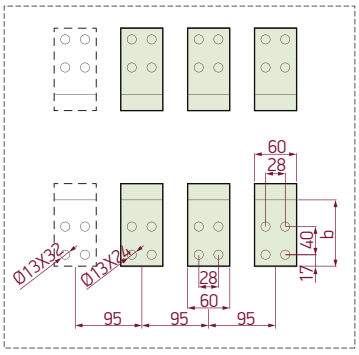




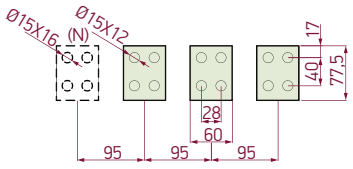
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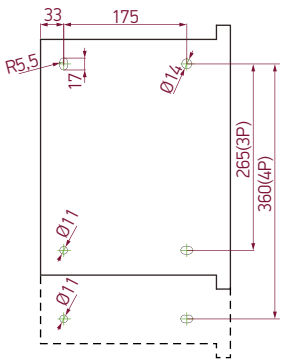






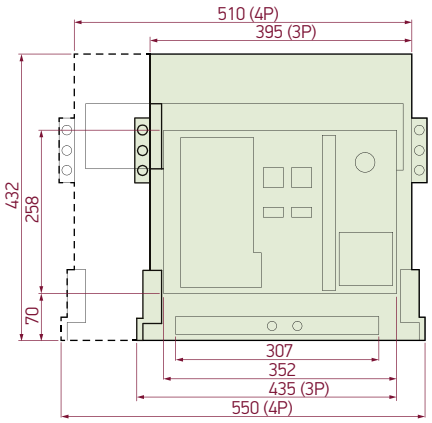
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(Vertical Connection)

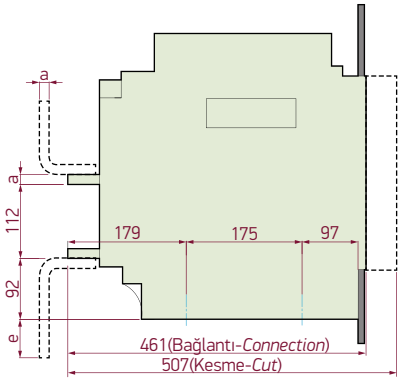


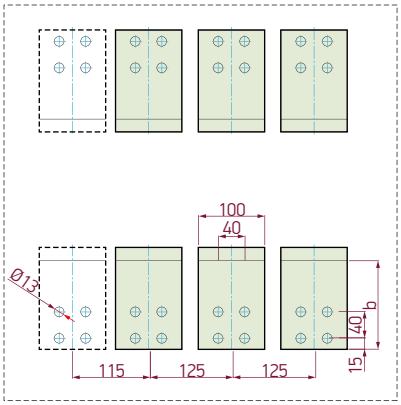


Type	a (mm)	b (mm)	e (mm)
400A-800A	10	95	3
1000A-1600A	15	105	13
2000A	20	115	23

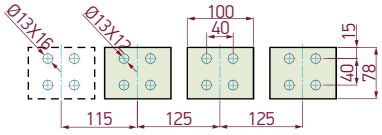
SDA-2500, SDA-3200

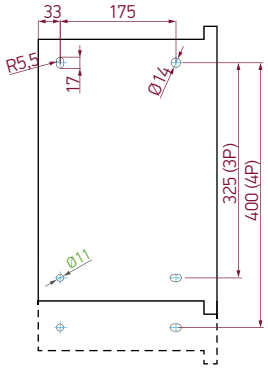






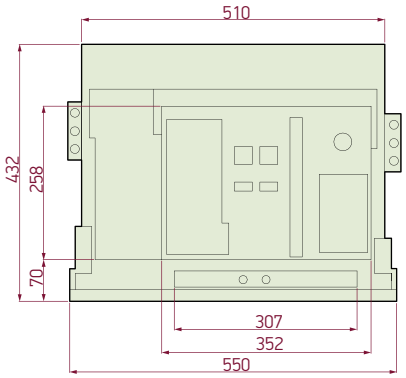
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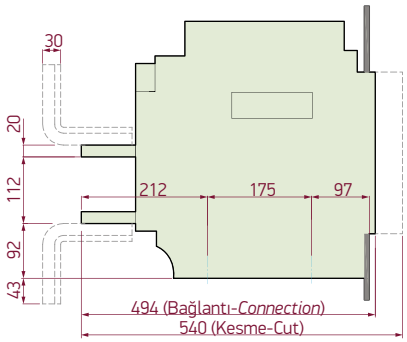


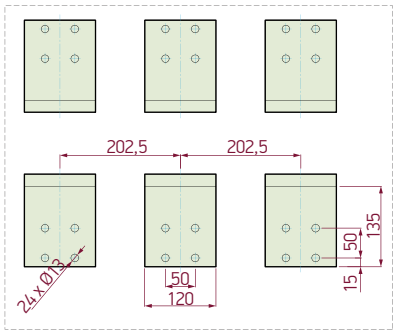


Type	a (mm)	b (mm)	e (mm)
2000A-2500A	20	115	58
3200A	30	135	78

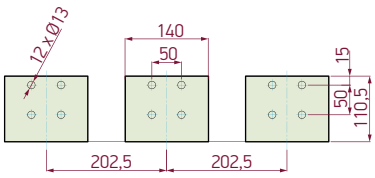
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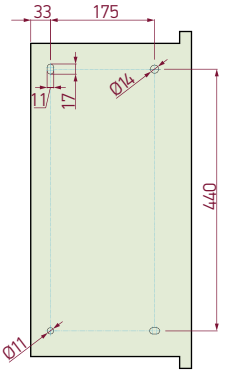




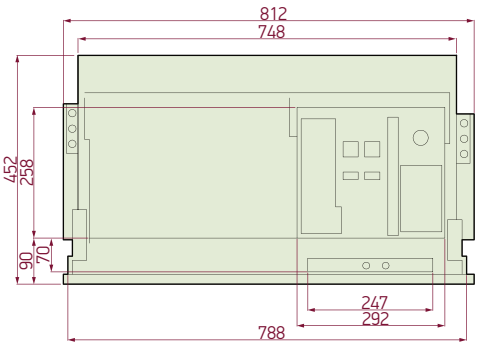


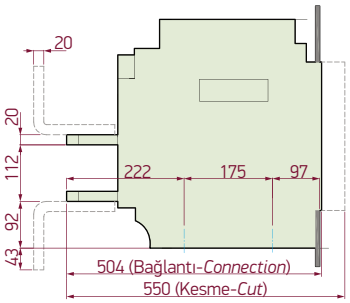
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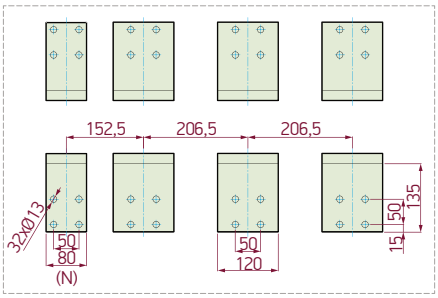




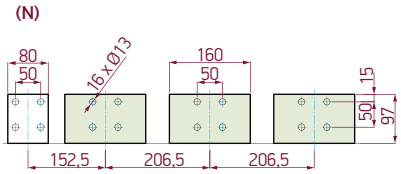
SDA-4000 (4P)

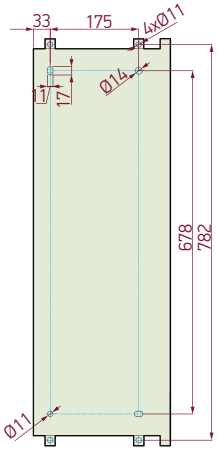




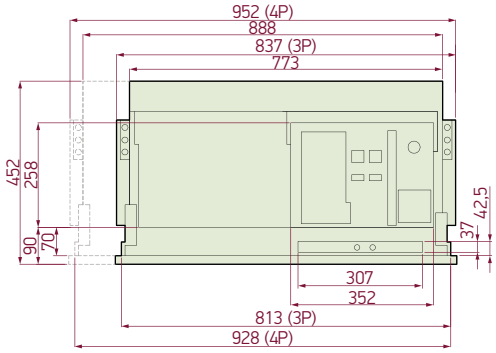


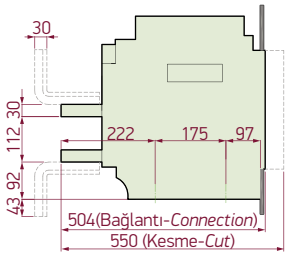
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(Vertical Connection)

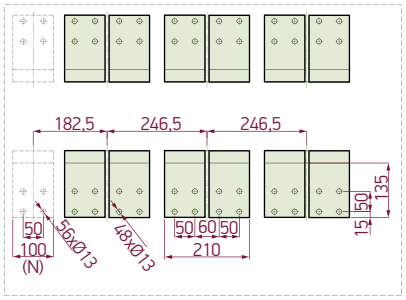




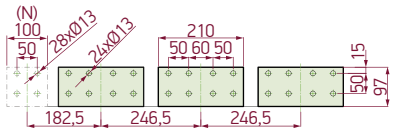
SDA-6300 (3P-4P 5000A)

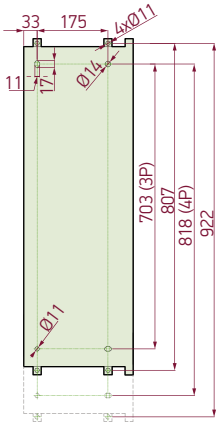




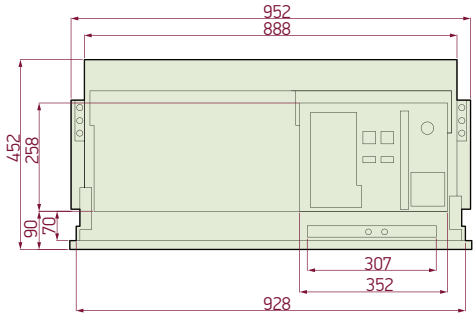


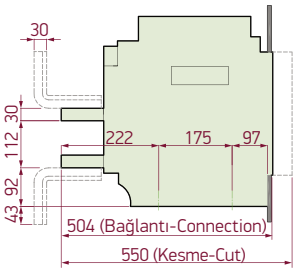
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(Vertical Connection)

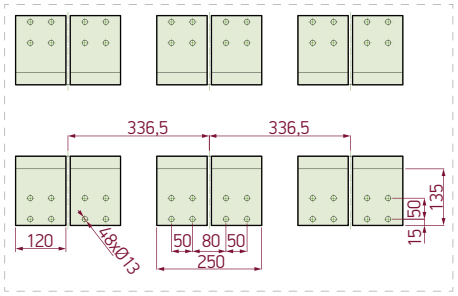




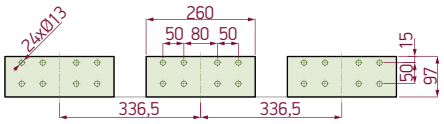
SDA-6300 (3P-6300A)

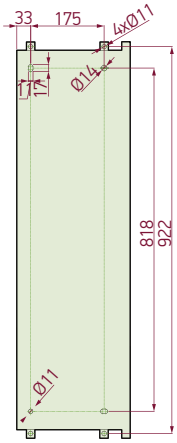




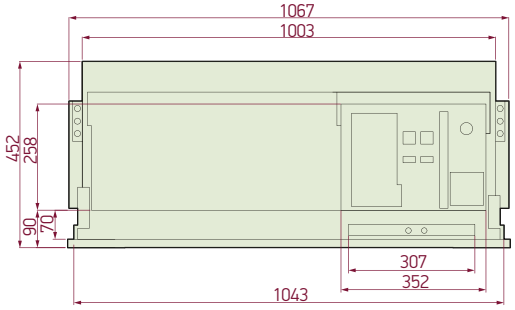


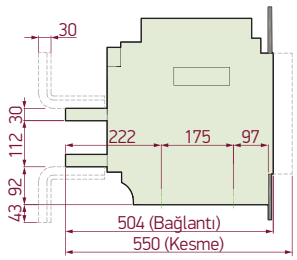
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(Vertical Connection)

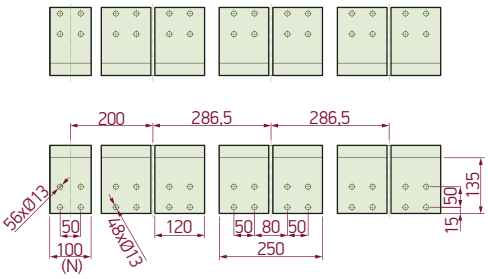


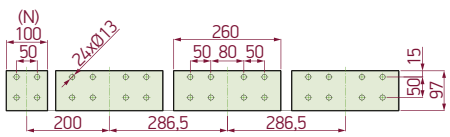


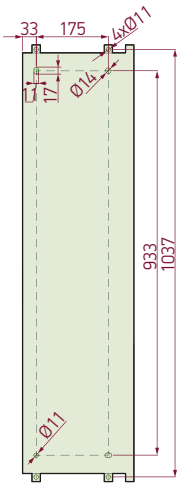
SDA-6300 (4P-6300A)



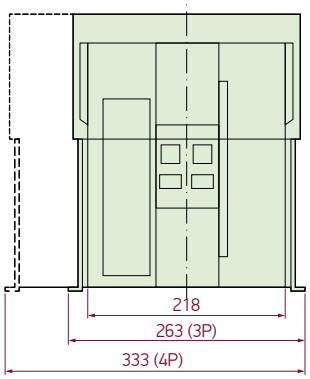


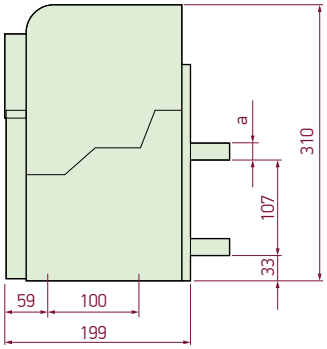


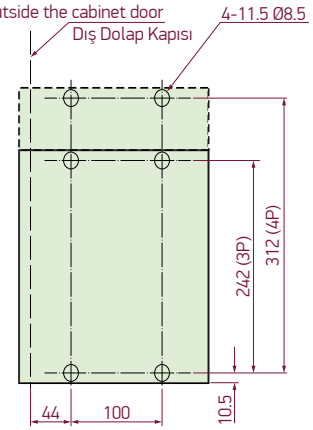




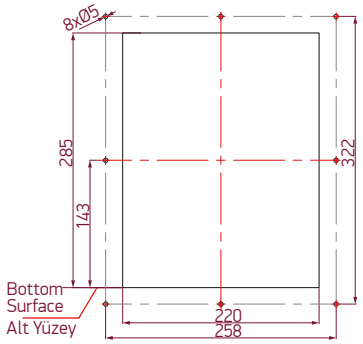
SMA-1600

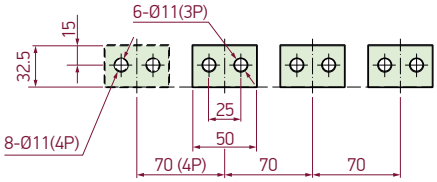


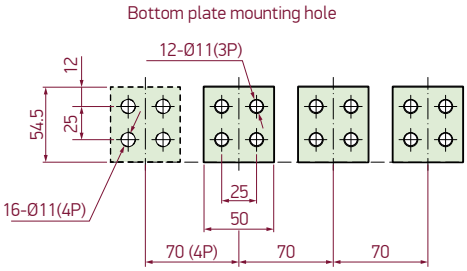




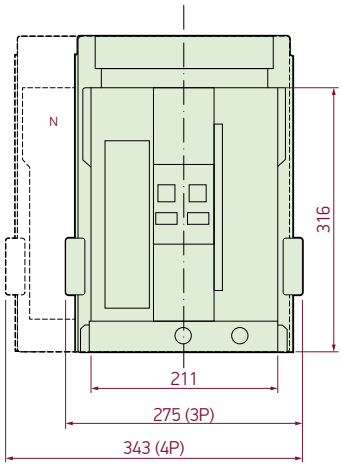
In (A)	a mm
200~630A	6
800~1000A	10
1250~1600A	18

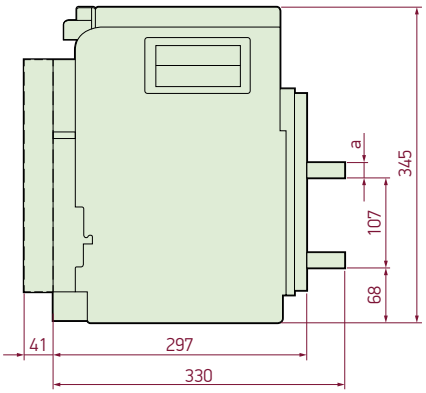


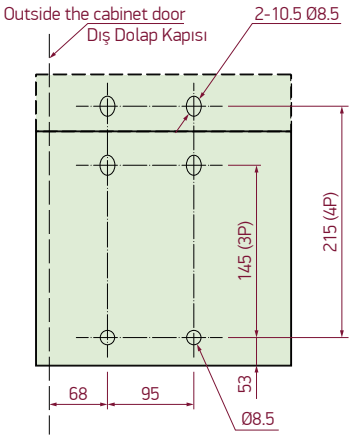




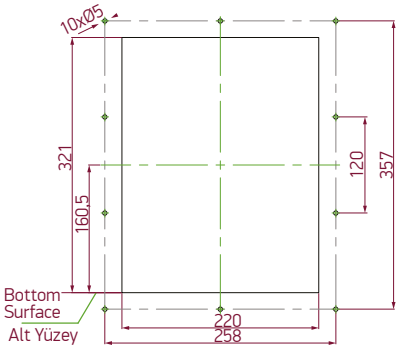
SCA-1600

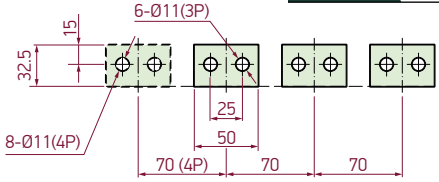


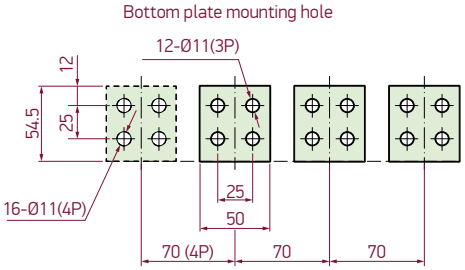




In (A)	a mm
200~630A	6
800~1000A	10
1250~1600A	18







SATS SERIES
MATS SERIES
FATS SERIES

Sigma elektrik



Sigma elektrik



AUTOMATIC
TRANSFER SWITCHES

Automatic transfer switches are devices that automatically transfer the load from one power source (mains, UPS, generator, etc.) to another power source (mains, UPS, generator, etc.), allowing them to break, transmit, carry and isolate the current. They are used to carry out load transfers safely in areas where power outages are frequent, where uninterrupted power is needed and where the outage would cause great damage (hospitals, shopping malls, banks, factories, residences, etc.).

- Rated current from 32A to 3200A
- Possibility of adjusting transfer times (optional)
- Ability to protect the system against overvoltages and undervoltages caused by the source
- DIN rail-adapted residential type models
- Product versions with RS485 communication

Automatic Transfer Switches (with MCCB) - Technical Specifications

	SATS-100	SATS-250				SATS-400	SATS-630	SATS-800
Nominal current Ith (40°C)	100A	125A	160A	200A	250A	400A	630A	800A
Standard	EN 60974-6-1	EN 60974-6-1				EN 60974-6-1	EN 60974-6-1	EN 60974-6-1
Number of poles	4P	4P				4P	4P	4P
Nominal operating voltage (Ue)	400V AC 50Hz							
Nominal insulation voltage Ui (V)	800	800	800	800	800	800	1000	1000
Rated impulse withstand voltage Uimp (kV)	8	8	8	8	8	8	12	12
Nominal short circuit breaking capacity (Icu) (kA)	25	36	36	36	36	36	36	36
UN-UR or UR-UN switching time (s)	0-180s	0-180s	0-180s	0-180s	0-180s	0-180s	0-180s	0-180s
UN-0 or UR-0 switching time (s)	2s	2s	2s	2s	2s	2s	2s	2s
Mechanical service life	6000	6000	6000	6000	4000	4000	3000	3000
Protection degree	IP30 (Other than Terminals)							
Maximum copper cable section (mm2)	35	35	50	85	95	185	2x150	2x240
Tightening torque min / max (Nm)	9/13	9/13	9/13	20/26	20/26	20/26	20/26	20/26
Ambient operating temperature range	-5°C ... +40°C (24 hours average not more than 35°C)							
Ambient storage temperature range	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C	-20°C ... +60°C
Relative Humidity	95%	95%	95%	95%	95%	95%	95%	95%
Pollution degree	3	3	3	3	3	3	3	3

Control Unit Properties	
Nominal application voltage	230V ±%20
Power consumption	10W
Installation mode	Fixed Type
Connection mode	Frontal
Operating frequency	50/60Hz
Auxiliary power supply	24V DC (-10%, +15%)

Automatic Transfer Switches (with MCB) - Technical Specifications

	SATS2-63				SATS4-63				SATS4-125		
Nominal current (Ith) (at 40°C)	32	40	50	63	32	40	50	63	80	100	125
Standard	EN 60974-6-1				EN 60974-6-1				EN 60974-6-1		
Number of poles	2P				4P				4P		
Nominal operating voltage (Ue)	415V AC				415V AC				415V AC		
Nominal insulation voltage (Ui)	750V				750V				750V		
Rated impulse withstand voltage (Uimp)	4kV				6kV				6		
Nominal short circuit breaking capacity (Icu)	3kA				6kA				6		
UN-UR or UR-UN switching time	< 3s				200ms				200ms		
UN-0 or UR-0 switching time	-				50ms				50ms		
Mechanical service life	3000				3.000				3000		
Protection degree	IP20				IP20				IP20		
Ambient operating temperature range	-5°C ... +40°C				-30°C ... +60°C				-30°C ... +60°C		
Ambient storage temperature range	-20°C ... +60°C				-20°C ... +60°C				-20°C ... +60°C		
Relative Humidity	%95				%95				%95		
Pollution degree	III				III				III		
Altitude	2000m				2000m				2000m		

Residential Automatic Transfer Switches (Without Protection)

	MATS2-63	MATS4-63	MATS2-125	MATS4-125
Rated operating current Ue (A)	63		125	
Pole number	2	4	2	4
Rated operating voltage (V)	230	400	230	400
Rated insulation voltage Ui (V)	800		500	
Rated impulse withstand voltage Uimp (kV)	8		4	
Rated short-circuit current Iq (kA)	5		3	
Frequency (Hz)	50/60		50/60	
Short circuit protection device (fuse)	SNH00-63A		SNH00-125A	
Mechanical life	3000 times		3000 times	
Electrical life	1500 times		1500 times	
Usage category	AC-33iB		AC-33iB	
Ambient operating temperature	-5°C ... +40°C		-5°C ... +40°C	
Ambient storage temperature	-25°C ... +55°C		-25°C ... +55°C	
Relative humidity	95%		95%	

Automatic Transfer Switches - Technical Specifications (Motorized Switch Disconnector)

	MATS-100	MATS-160	MATS-250	MATS-630	MATS-1000	MATS-1600	MATS-2000	MATS-2500	MATS-3200
Rated thermal current (Ith)	100	160	250	630	1000	1600	2000	2500	3200
Rated insulation voltage [Ui(V)]	800	800	800	800	800	800	1000	1000	1000
Rated impulse withstand voltage Uimp (kV)	8	8	8	8	8	8	12	12	12
Rated short circuit making capacity Icm(kA) peak	8	17	17	26	55	55	55	55	55
Short Circuit Resistance Capacity Icw (kA/0.1sn)	9	25	25	50	90	90	50	50	55
Rated limited short circuit current Iq (kA)	120	120	120	120	120	120	80	80	80
Transfer time	1,7	2,3	3,1	2,1	2,6	2,6	2.45	2.45	2.45
Contact transfer time	0,7	1	1,2	0,8	1	1	1	1	1
Weight (kg)	4	6,1	10,7	22	54	61	102	102	113
Phase lost detect	3 phase								
Utilization category	AC-33İB (GB standart) / AC-32B (IEC standart)								

Ultra Fast Transfer Switches (RS485 Communication)

		FATS-125B / 4P III	FATS-250B / 4P III	FATS-630B / 4P III
Number of poles		4	4	4
Rated working current Ie(A)		125	250	630
Utilization category		AC-33A		
Rated working voltage Ue(V)		AC400/415V	AC400/415V	AC400/415V
Rated insulation voltage Ui(V)		800	800	800
Rated frequency Hz		50/60Hz	50/60Hz	50/60Hz
Display type		LED (Integrated) LCD (Extra LCD separable)	LED (Integrated) LCD (Extra LCD separable)	LED (Integrated) LCD (Extra LCD separable)
Rated impulse withstand voltage Uimp(kV)		8	8	8
Rated control power Us(V)		AC230V	AC230V	AC230V
Minimum transfer action time (ms)		≤200	≤ 200	≤ 200
Number of working positions		II or III	II or III	II or III
Number of operation cycles	No load	10000	10000	10000
	With load	6000	6000	6000
	Total	16000	16000	16000

Automatic Transfer Switches (with MCB)



Type Code	New Product	Number of Poles	Rated Current In (A)	Breaking Capacity (Icu)	Rated Voltage (V)	Order Code
SATS2-63	NEW Product	2P	32	6 kA	230	SATS2032
	NEW Product	2P	40	6 kA	230	SATS2040
	NEW Product	2P	50	6 kA	230	SATS2050
	NEW Product	2P	63	6 kA	230	SATS2063
SATS4-125		4P	32	6 kA	400	SATS4032
		4P	40	6 kA	400	SATS4040
		4P	50	6 kA	400	SATS4050
		4P	63	6 kA	400	SATS4063
	NEW Product	4P	80	6 kA	400	SATS4080
	NEW Product	4P	100	6 kA	400	SATS4100
	NEW Product	4P	125	6 kA	400	SATS4125

Note: Sats type automatic transfer switch is protected by in built MCB against overcurrents.

Automatic Transfer Switches (with MCCB)



Type Code	Number of Poles	Rated Current In (A)	Breaking Capacity (Icu)	Rated Voltage (V)	Order Code
SATS-100	4P	100	25 kA	400	SATS100
SATS-250	4P	125	36 kA	400	SATS125
	4P	160	36 kA	400	SATS160
	4P	200	36 kA	400	SATS200
	4P	250	36 kA	400	SATS250
SATS-400	4P	400	36 kA	400	SATS400
SATS-630	4P	630	36 kA	400	SATS630
SATS-800	4P	800	36 kA	400	SATS800

Note: 3 phases of Sats type automatic transfer switch is protected against over voltage and undervoltage.



HOW TO CONNECT SATS TYPE AUTOMATIC TRANSFER SWITCHES (Thermal-Magnetic Compact Switch)?

You can watch from the link “youtube.com/sigmaelektrik”, you can have easy and fast access with the QR code on the side

Residential Automatic Transfer Switches (Without Protection)

New Product!



Type Code	Number of Poles	Rated Current In (A)	Rated Voltage (V)	Short Circuit Withstand Capacity Icw (kA/1sn)	Order Code
MATS2-63	2P	63	230	5	MATS20063
MATS4-63	4P	63	400	5	MATS40063

Automatic Transfer Switches (Motorized Switch Disconnector)



Type Code	Number of Poles	Rated Current In (A)	Rated Voltage (V)	Rated short circuit making capacity Icm(kA) peak	Order Code
MATS-100	4P	100	400	8	MATS100-B
MATS-160	4P	160	400	17	MATS160-B
MATS-250	4P	250	400	17	MATS250-B
MATS-630	4P	630	400	26	MATS630-B
MATS-1000	4P	1000	400	55	MATS1000-B
MATS-1600	4P	1600	400	55	MATS1600-B
MATS-2000	4P	2000	400	55	MATS2000-B
MATS-2500	4P	2500	400	55	MATS2500-B
MATS-3200	4P	3200	400	55	MATS3200-B

Note: Over current protection is not available for Mats type Automatic Transfer Switch.
Note: 3 phase of Mats type Automatic Transfer switch are protected against phase losses.

New Product!



Type Code	Number of Poles	Rated Current In (A)	Rated Voltage (V)	Short Circuit Withstand Capacity Icw (kA/1sn)	Order Code
MATS2-125	2P	125	230	5	MATS20125
MATS4-125	4P	125	400	5	MATS40125

Ultra Fast Transfer Switches (RS485 Communication)

New Product!



Type Code	Number of Poles	Rated Voltage (V)	Rated Current In (A)	Transfer time (s)	Order Code
FATS-125	**4P**	400	125	≤ 0.2	FATS-125B
FATS-250	**4P**	400	250	≤ 0.2	FATS-250B
FATS-630	**4P**	400	630	≤ 0.2	FATS-630B

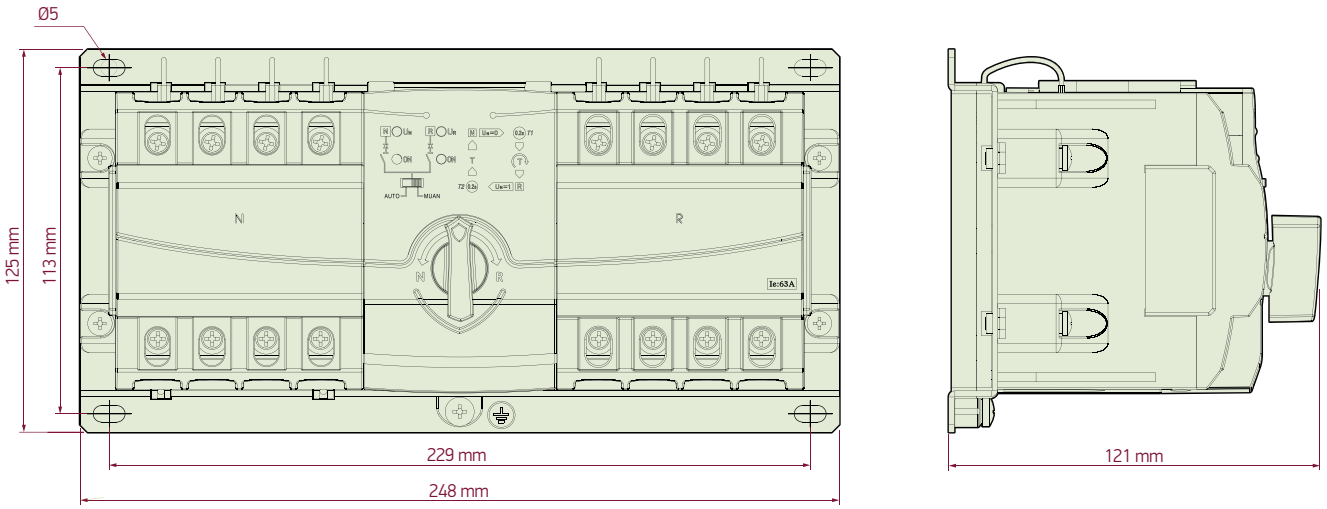
Note: Ultra fast transfer switches are used in critical areas such as hospitals, banks, data centers, and cold storage facilities where power outages would cause significant damage, to transfer power to a backup power source much faster.



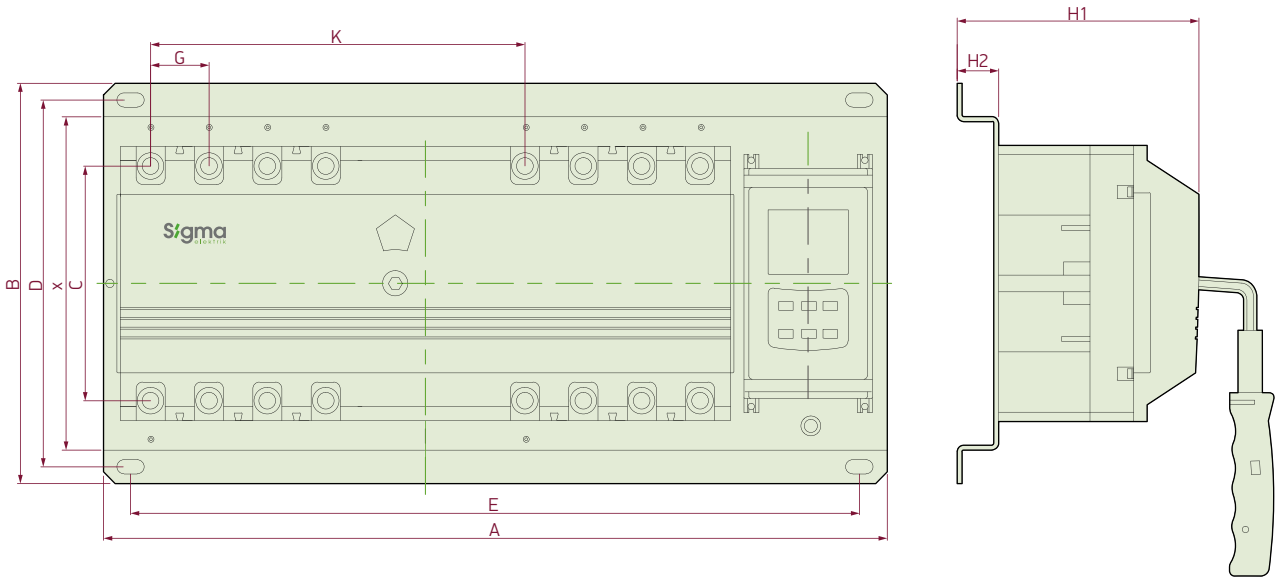
HOW TO CONNECT MATS TYPE AUTOMATIC TRANSFER SWITCHES?

You can watch from the link “youtube.com/sigmaelektrik”, you can access easily and quickly with the QR code on the side

Automatic Transfer Switches (with MCB) (32A-63A)

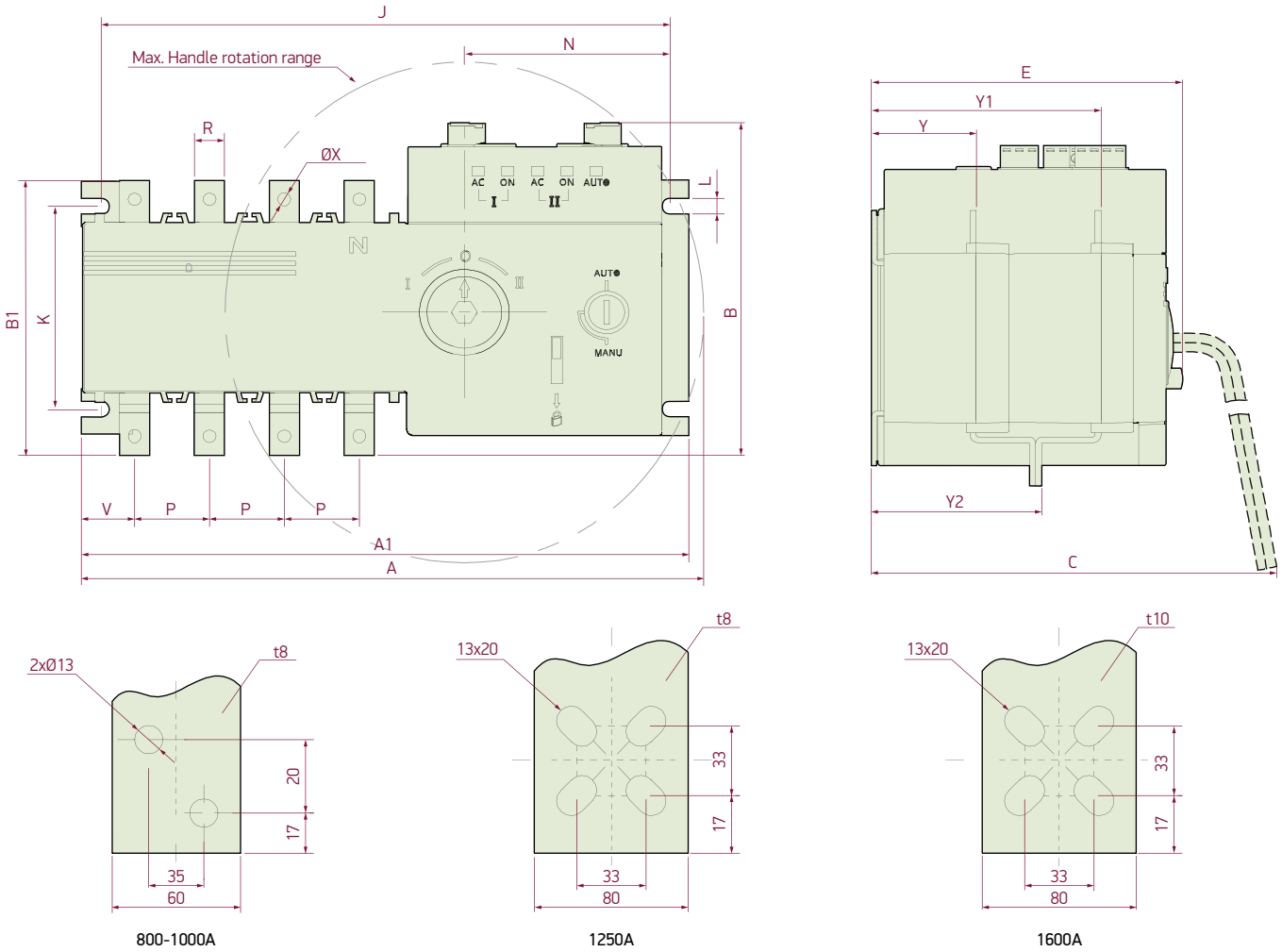


Automatic Transfer Switches (with MCCB) (100A-800A)



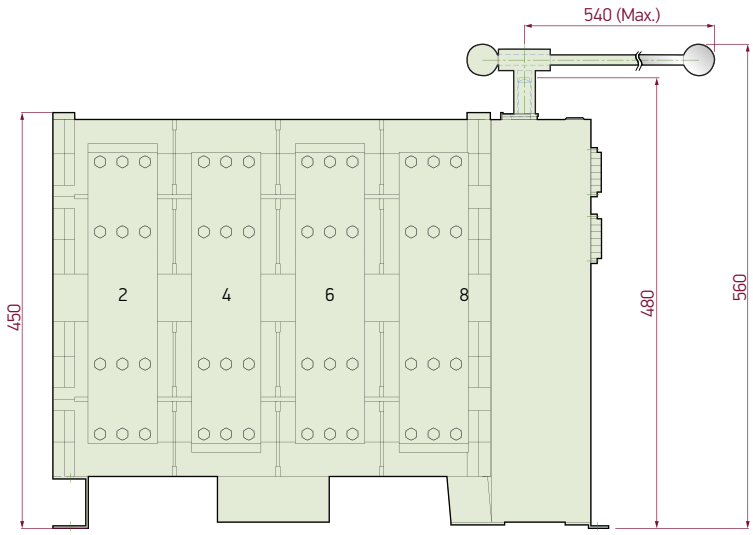
	A (mm)	B (mm)	C (mm)	x (mm)	D (mm)	E (mm)	G (mm)	K (mm)	H1 (mm)	H2 (mm)
SATS 100-125	420	240	134	200	220	387	30	194	145	25
SATS 225-250	470	240	145	200	220	437	35	225	145	25
SATS 400	615	330	224	265	300	555	48	304	200	24
SATS 630	740	330	234	270	300	680	58	385	200	24
SATS 800	790	350	243	290	320	735	70	396	200	24

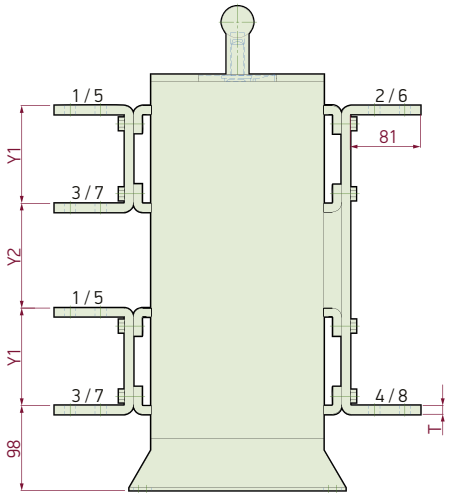
Automatic Transfer Switches (Motorized Switch Disconnector - (100A-1600A))

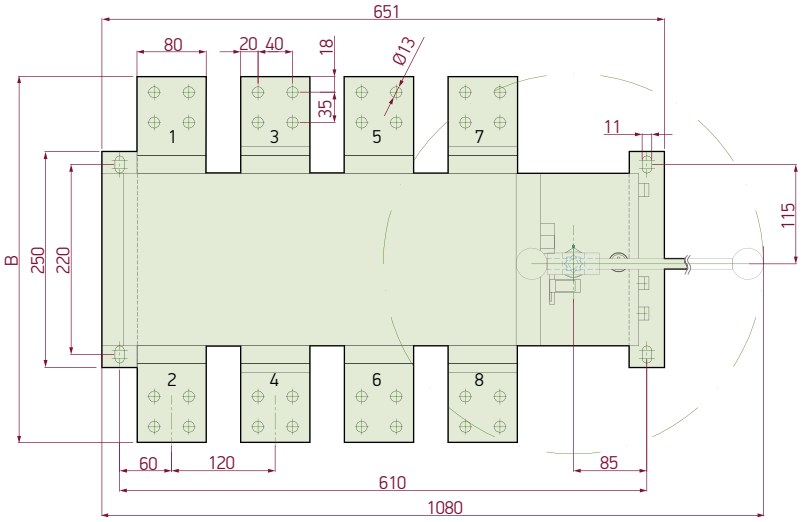


	A (mm)	A1 (mm)	B (mm)	B1 (mm)	C (mm)	E (mm)	J (mm)	K (mm)	L (mm)	N (mm)	P (mm)	R (mm)	V (mm)	ØX (mm)	Y (mm)	Y1 (mm)	Y2 (mm)
MATS 100	330	244	135	115	165	125	228	85	6,5	83	30	12	21	6,5	41,5	91,5	66,5
MATS 160	374	301	175	140	200	150	285	102	7	94	36	20	31	8,5	55,5	125,5	92,5
MATS 250	436	373	200	178	250	198	344	108	6,5	99	50	24	37	11	72	157	116
MATS 630	502	433	265	260	295	244	416	180	9	101	65	40	47,5	12	83	193	140
MATS 800	1050	636	345	337	373	320	612	220	11	83,5	120	60	71	13	108	241	196
MATS 1000	1050	636	345	337	373	320	612	220	11	83,5	120	80	71	13	108	241	196
MATS 1250	1050	636	345	337	373	320	612	220	11	83,5	120	80	71	13	108	241	106
MATS 1600	1050	636	345	337	373	320	612	220	11	83,5	120	80	71	13	109	242	106

Automatic Transfer Switches (Motorized Switch Disconnector - (2000A-3200A))

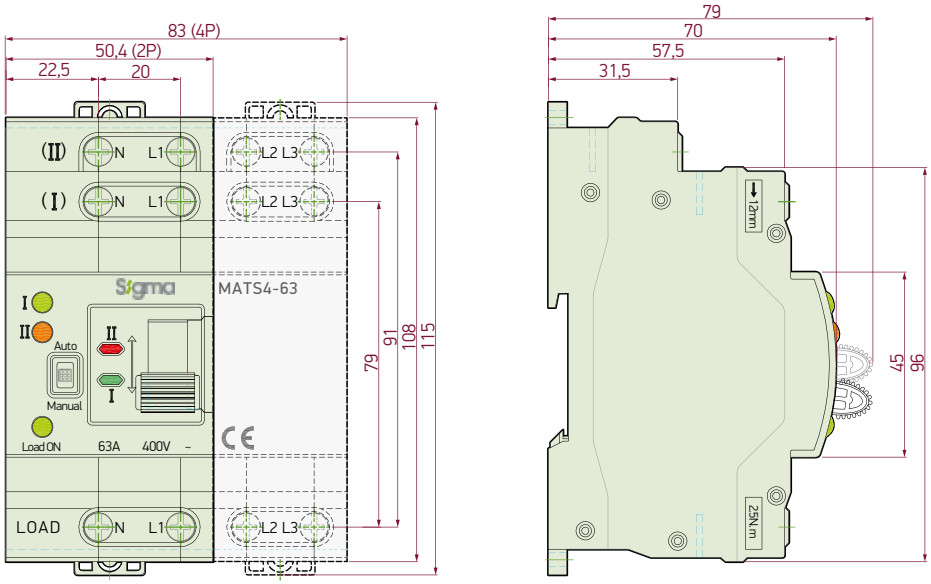




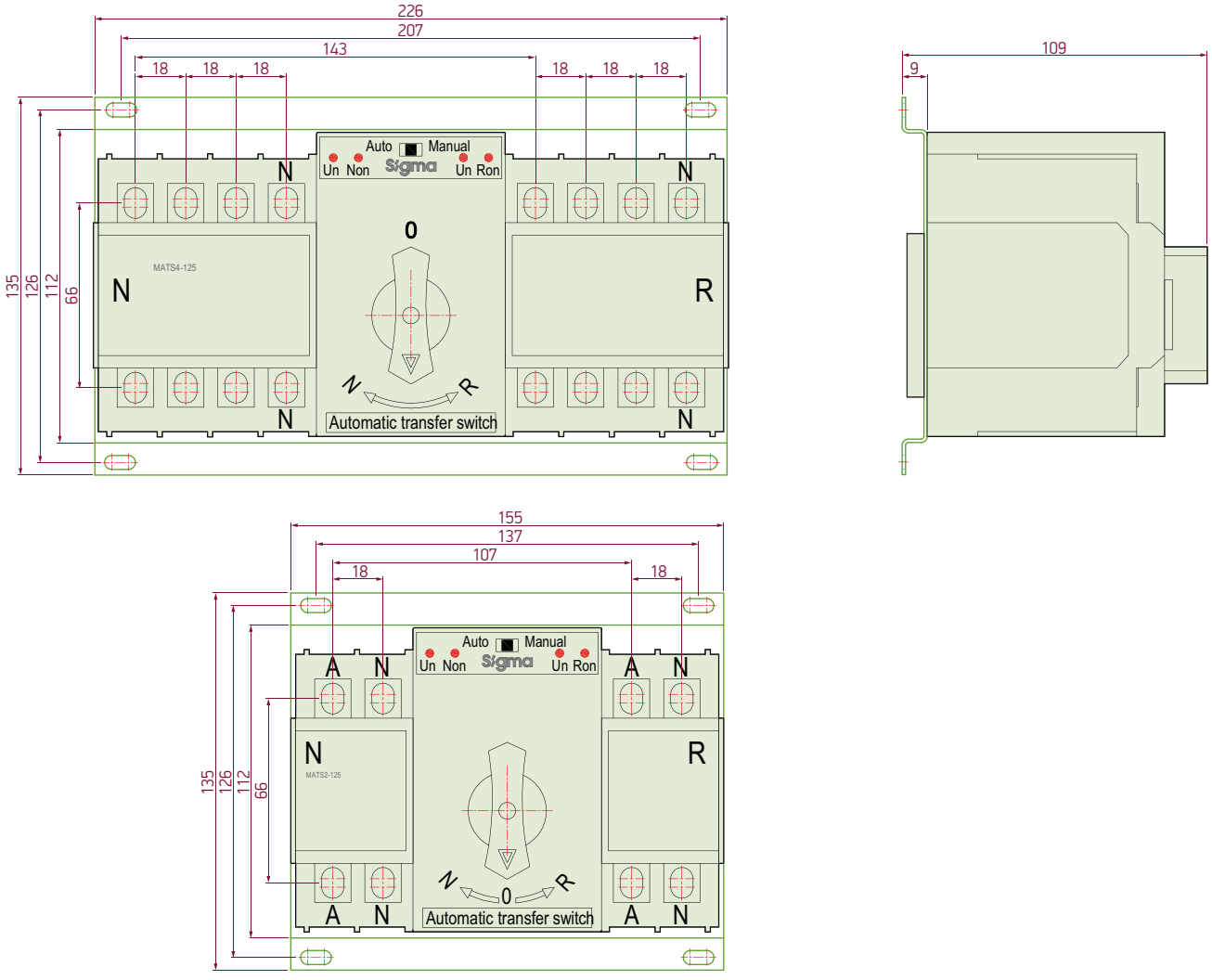


	B (mm)	T (mm)	Y1 (mm)	Y2 (mm)
MATS 2000	423	10	113	121
MATS 2500	433	15	118	116
MATS 3200	443	20	123	111

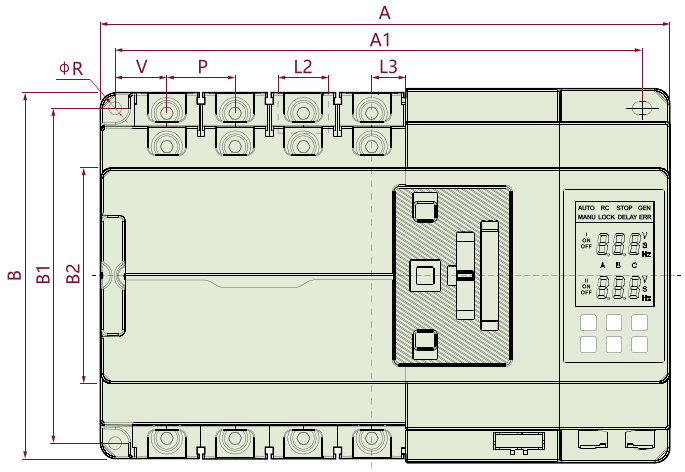
Residential Automatic Transfer Switches (Without Protection) (63A) - (2P, 4P)



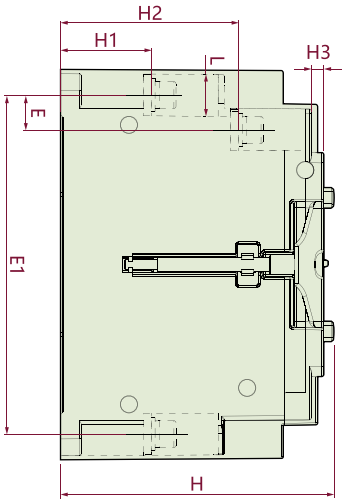
Residential Automatic Transfer Switches (Without Protection) (125A)

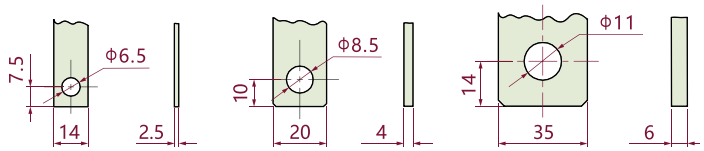


Ultra Fast Transfer Switches (RS485 Communication)



Entegre Tip
Integral Type





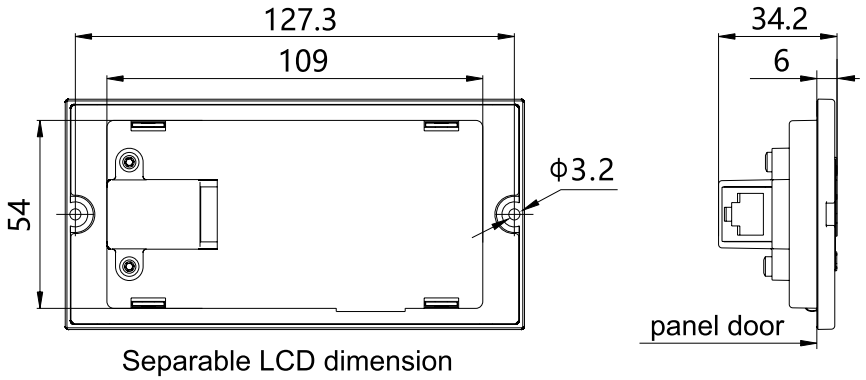
125 **250** **400/630**

Overall and installation dimension

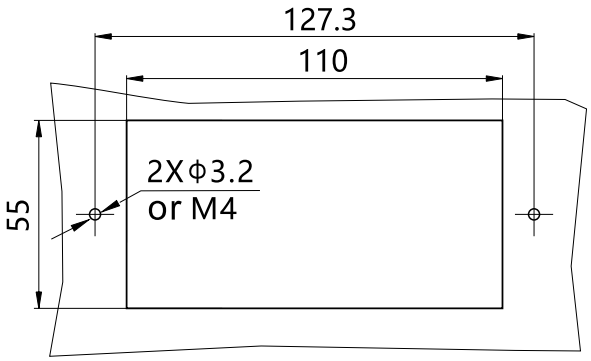
SPEC.		Overall dimensions (mm)					Installation dimension (mm)											
Ith	Poles	A	B	H	B2	H3	A1	B1	H1	H2	E1	E	R	V	P	L	L2	L3
125A	4P	238	140	115	75	5	220	125	34	68.5	124	15.5	4.5	20.5	25	17.5	18	12.5
	3P	213					195											
	2P	188					170											
250A	4P	292	190	132	109	6	270	170	44	86	165	17	6.5	26.5	35	20	26	17.5
	3P	257					235											
630A	4P	375	285	195	140	12	345	252	56	106	250	27	11	40	45	33	37	21 .5
	3P	330					300											

Ultra Fast Transfer Switches (RS485 Communication) (continued)

ATS copper bar dimension



Separable LCD dimension



Separable LCD cut out size

SCO - MCB Type Changeover Switches (No Protection)

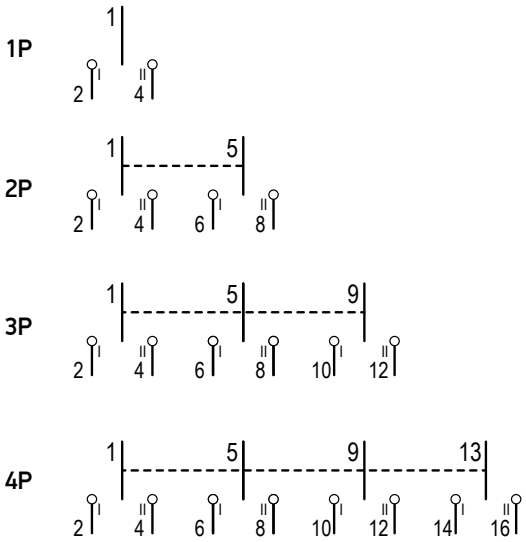
Aplication

The Changeover Switch can switch on, Load and break the circuit under normal conditions, using as Switch Disconnectors.

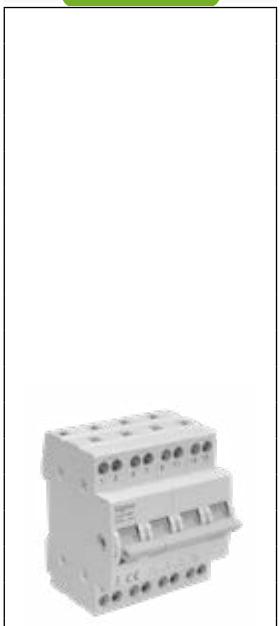
Technical Data

Rated Voltage	240/415V~
Rated Current	63, 80, 100, 125, 160A
Rated Fruquency	50/60 Hz
Number of Poles	1, 2, 3, 4P
Contact Form	1-0-2
Electrical Life	1.500 Cycles
Mechanical Life	8.500 Cycles
Protection Degree	IP20
Ambient Temperature	-5°C ... 40°C
Terminal / Cabe Size	16-70mm²
Mounting	On DIN rail EN60715(35mm) by means os fast clip device

Circuit Diagram



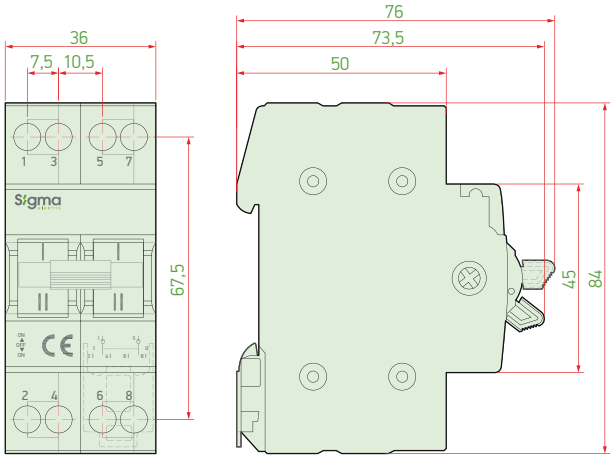
New Product!



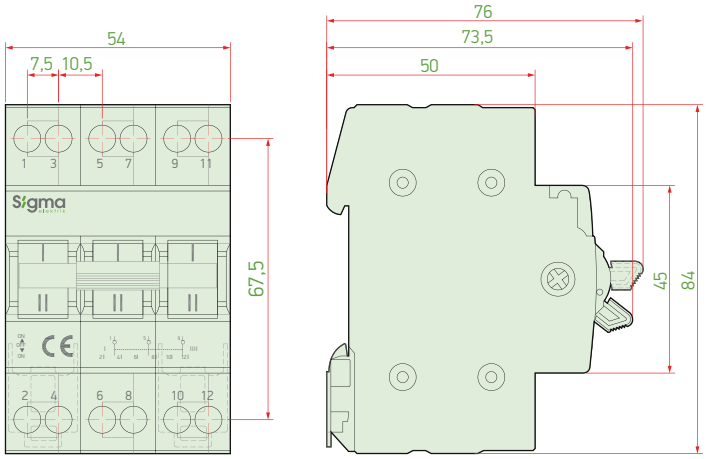
Type Code	Number of Poles	Rated Current In (A)	Rated Operating Voltage (V)	Order Code
SCO1-63	1P	25	230	SCO-1025
	1P	40	230	SCO-1040
	1P	63	230	SCO-1063
SCO1-160	1P	80	230	SCO-1080
	1P	100	230	SCO-1100
	1P	125	230	SCO-1125
	1P	160	230	SCO-1160
SCO2-63	2P	25	230	SCO-2025
	2P	40	230	SCO-2040
	2P	63	230	SCO-2063
SCO2-160	2P	80	230	SCO-2080
	2P	100	230	SCO-2100
	2P	125	230	SCO-2125
	2P	160	230	SCO-2160
SCO3-63	3P	25	400	SCO-3025
	3P	40	400	SCO-3040
	3P	63	400	SCO-3063
SCO3-160	3P	80	400	SCO-3080
	3P	100	400	SCO-3100
	3P	125	400	SCO-3125
	3P	160	400	SCO-3160
SCO4-63	4P	25	400	SCO-4025
	4P	40	400	SCO-4040
	4P	63	400	SCO-4063
SCO4-160	4P	80	400	SCO-4080
	4P	100	400	SCO-4100
	4P	125	400	SCO-4125
	4P	160	400	SCO-4160

Dimentions (mm)

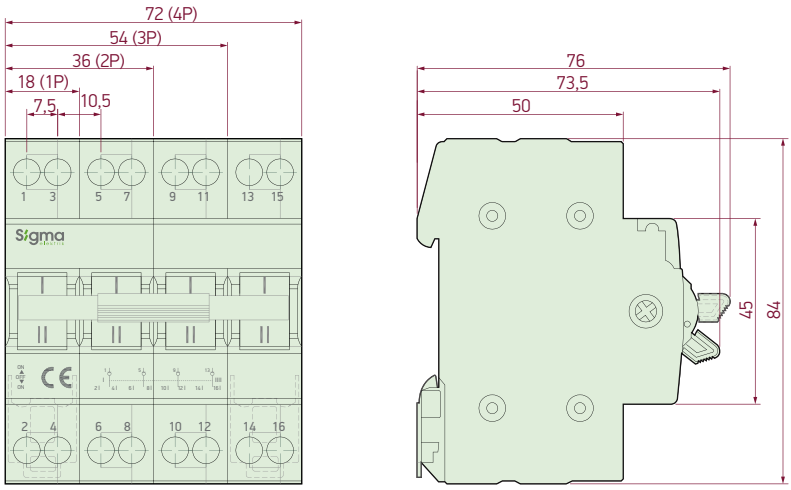
SCO-2040 – SCO-2063



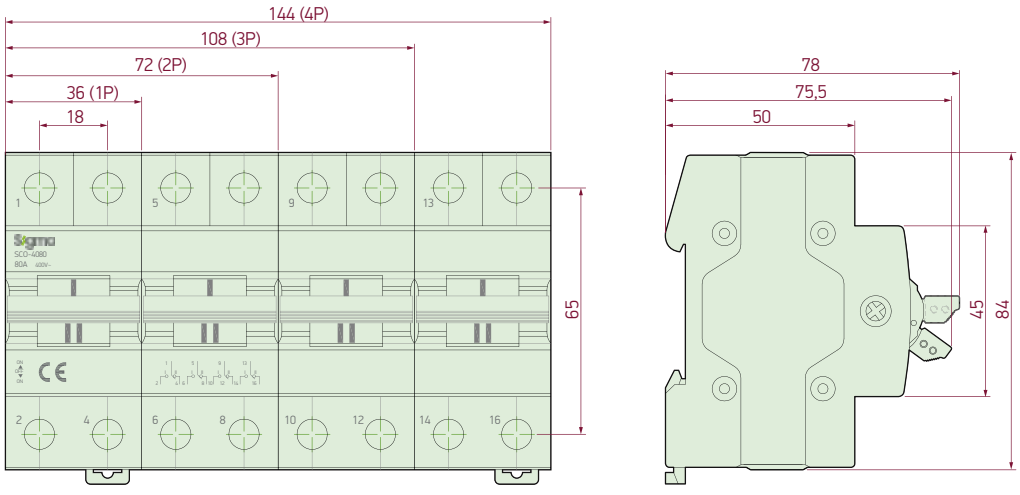
SCO-3040 – SCO-3063



SCO-4040 – SCO-4063



SCO-4080 – SCO-4100 – SCO-4125



Manual Changeover Switches (without protection)

Technical Data

Conventional heating current		Ith	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200
Rated insulation voltage		Ui(V)	750	800	1000									
Dielectric strength		(V)	2000		2200									
Rated impulse withstand voltage		Uimp(kV)	6	8	12									
Rated working voltage		Ue(V)	400V AC											
Rated frequency			50-60 Hz											
Utilization category			AC-21, 22, 23											
Rated working current Ie (A)	AC440V	AC-21	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200
		AC-22	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200
		AC-23	80	160	250	400	630	630	800	1000	1250	1250	2000	2500
	AC660V	AC-21	100	160	250	400	630	800	1000	1250	1600	2000	2500	3200
		AC-22	80	100	200	315	400	630	630	630	800	1000	1000	1250
		AC-23	63	63	125	200	250	250	250	400	500	-	-	-
Rated making capacity		(A)	10Ie											
Rated breaking capacity		(A)	8Ie											
Rated short-circuit makingcapacity		Icm (kA)	1,7	3,4	5,3	8,4	13	17	33			70		
1s short time withstand current		Icw (kA)	3	6	10	15	15	20	35			40		
Mechanical life		(times)	5000			3000			2000			1000		
Electrical life		(times)	1000			600			300			200		
Operating torque		(N.m)	3,5	6,5	10	15	15	15	27	27	27	60		
Weight (kg) (Without handle)		3P	0,39	0,88	1,6	3,8	4,2	4,2	10,5	10,5	16	31	31	42
		4P	0,41	1,1	2	4,6	5	5	13	13	20	40	40	49

New Product!



Type Code	Poles Number	Rated Current In (A)	Rated Voltage (V)	Order Code
SMTS4-100	4P	100	1000	SMTS4-0100
SMTS4-160	4P	160	1000	SMTS4-0160
SMTS4-250	4P	250	1000	SMTS4-0250
SMTS4-400	4P	400	1000	SMTS4-0400
SMTS4-630	4P	630	1000	SMTS4-0630
SMTS4-800	4P	800	1000	SMTS4-0800
SMTS4-1000	4P	1000	1000	SMTS4-1000
SMTS4-1250	4P	1250	1000	SMTS4-1250
SMTS4-1600	4P	1600	1000	SMTS4-1600
SMTS4-2000	4P	2000	1000	SMTS4-2000
SMTS4-2500	4P	2500	1000	SMTS4-2500
SMTS4-3200	4P	3200	1000	SMTS4-3200

Sigma elektrik



FUSE SWITCH
DISCONNECTORS

They provide safe separation of rated currents under load in AC circuits in accordance with the usage category and operating voltage, while also providing safe protection against overload currents and short circuit currents.

- Design suitable for NHC00, NH00, NH1, NH2, NH3 fuse use
- Option to open 3 phases together or separately (Vertical type)
- Fireproof BMC body material with very high mechanical and electrical insulation features
- Saving on maintenance and repair costs

Vertical Type Fuse Switch Disconnectors - Technical Specifications

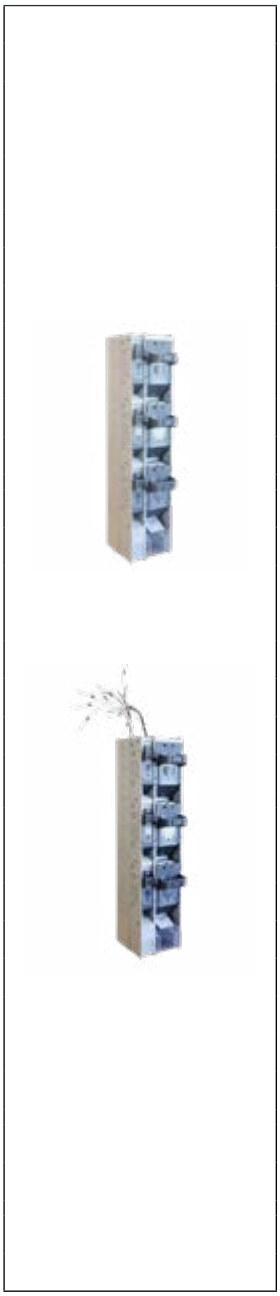
			SDY160	SDY250	SDY400	SDY630
Standard			EN 60947-3, IEC60947-3			
Rated current		A	160A	250A	400A	630A
Rated Thermal Current (with NH fuse)	Ith	A	160	250	400	630
Rated Thermal Current with Solid Links	Ith	A	200	400	630	800
Number of poles			3	3	3	3
Rated operating voltage	Ue	V (AC)	400 - 500 - 690	400 - 500 - 690	400 - 500 - 690	400 - 500 - 690
Rated insulation voltage	Ui	V (AC)	1000	1000	1000	1000
Rated impulse withstand voltage	Uimp	kV (AC)	12	12	12	12
Rated Short Circuit Breaking Capacity with Fuse Protection	Icc	kA	100	100	100	100
NH Fuse link size			NHC00 - NH00	NH1 - NH2	NH1 - NH2 - NH3	NH1 - NH2 - NH3
Electrical life (No. operation)	ON - OFF		200	200	200	200
Mechanical life (No. operation)	ON - OFF		1600	1600	1000	1000
IP degree of protection	On	Off	IP20 / IP30	IP20 / IP30	IP20 / IP30	IP20 / IP30
Ambient operating temperature		°C	(-25 / +55)*	(-25 / +55)*	(-25 / +55)*	(-25 / +55)*
Relative Humidity		%	95	95	95	95
Rated frequency		Hz	50-60HZ	50-60HZ	50-60HZ	50-60HZ
Utilization category			AC23B/AC22B/AC21B	AC23B/AC22B/AC21B	AC23B/AC22B/AC21B	AC23B/AC22B/AC21B
Connection Cross Section		mm^2	70	120	240	2x185
Power loss per pole		W	12	23	34	48
Tightening torque		Nm	6	10	10	14
Hole diameter		Ø	M8	M10	M10	M12
Distance between main busbar terminals		mm	185	185	185	185
Weight		kg	2,3	4,7	4,7	5,85
Accessories						
Fuse holder			√	√	√	√
Terminal cover			√	√	√	√
Parking position			√	√	√	√
Micro switch			Optional	Optional	Optional	Optional
Mechanical padlock apparatus			Optional	Optional	Optional	Optional
Position indicator + mechanic fuse monitor			√	√	√	√
Fixing screws			√	√	√	√

* 24 hours operating average can not exceed + 35 ° C.

Horizontal Type Fuse Switch Disconnectors - Technical Specifications

		SFH 160			SFH 250			SFH 400			SFH 630		
Standard		EN 60947-3, EN 60947-3											
Nh fuse link size		NHC00 - NH00			NH1			NH2			NH3		
Number of poles		3			3			3			3		
Rated operational current	A	160	160	100	250	250	200	400	400	315			
Rated voltage	V	400	500	690	400	500	690	400	500	690	400	500	690
Rated insulation voltage	V	800			800			800			800		
Fuse protected rated short circuit current	kA	100	100	80	100	100	80	100	100	80	100	100	80
Utilization category		AC23B, AC22B, AC21B			AC23B, AC22B, AC21B			AC23B, AC22B, AC21B			AC23B, AC22B, AC21B		
Relative Humidity	%	95			95			95			95		
Weight	kg	0,7			1,5			3,3			3,3		

Vertical Type Fuse Switch Disconnectors



Type	Rated Current	Feature	NH Fuse/Length	Order Code
SDY-160	160A	3 phase can open separately	NHC00- NH00	SDY1160N
	160A	3 phase can open separately (with current transformer)		SDY1160CT
	160A	3 phase can open together		SDY3160N
	160A	3 phase can open together (with current transformer)		SDY3160CT
SDY-250	250A	3 phase can open separately	NH0-NH1-NH2	SDY1250N
	250A	3 phase can open separately (with current transformer)		SDY1250CT
	250A	3 phase can open together		SDY3250N
	250A	3 phase can open together (with current transformer)		SDY3250CT
	250A	3 phase can open separately (with right side output)		SDY1250R
	250A	3 phase can open together (with right side output)		SDY3250R
	250A	3 phase can open separately (with left side output)		SDY1250L
	250A	3 phase can open together (with left side output)		SDY3250L
SDY-400	400A	3 phase can open separately	NH1-NH2-NH3	SDY1400N
	400A	3 phase can open separately (with current transformer)		SDY1400CT
	400A	3 phase can open together		SDY3400N
	400A	3 phase can open together (with current transformer)		SDY3400CT
	400A	3 phase can open separately (with right side output)		SDY1400R
	400A	3 phase can open together (with right side output)		SDY3400R
	400A	3 phase can open separately (with left side output)		SDY1400L
	400A	3 phase can open together (with left side output)		SDY3400L
SDY-630	630A	3 phase can open separately	NH1-NH2-NH3	SDY1630N
	630A	3 phase can open separately (with current transformer)		SDY1630CT
	630A	3 phase can open together		SDY3630N
	630A	3 phase can open together (with current transformer)		SDY3630CT
	630A	3 phase can open separately (with right side output)		SDY1630R
	630A	3 phase can open together (with right side output)		SDY3630R
	630A	3 phase can open separately (with left side output)		SDY1630L
	630A	3 phase can open together (with left side output)		SDY3630L
SDY-800	800A	3 phase can open separately (2x400A Parallel connection)	NH1-NH2-NH3	SDYB1800N
	800A	3 phase can open separately (2x400A Parallel connection)		SDYB3800N
SDY-1250	1250A	3 phase can open separately (2x630A Parallel connection)	NH1-NH2-NH3	SDYB11250N
	1250A	3 phase can open separately (2x630A Parallel connection)		SDYB31250N

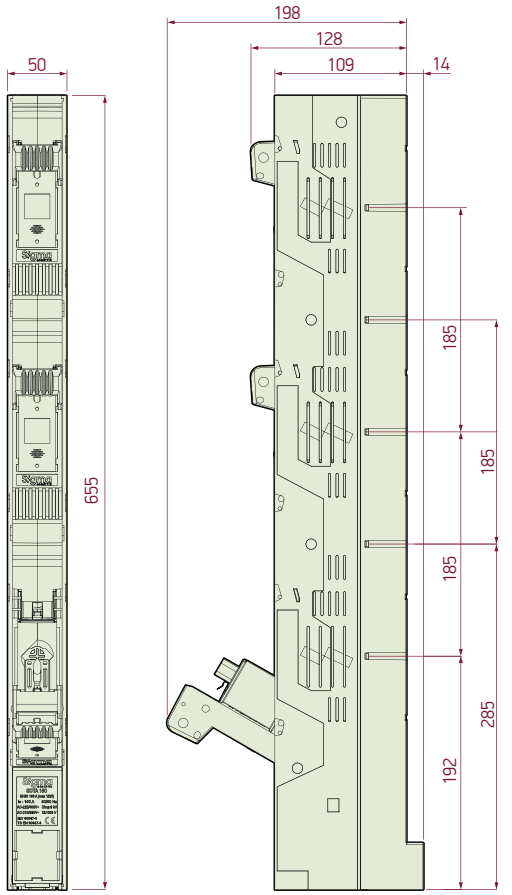
Current Fransformers for Vertical Type Fuse Switch Disconnectors



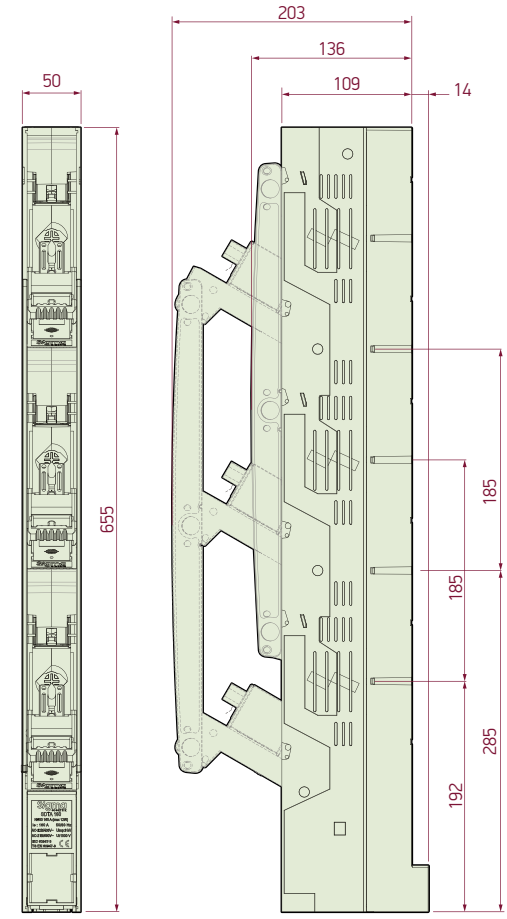
Type Code	Primary Current	Secondary Current	Power (VA)	Class	Order Code
SDY20	160A	1A	2.5VA	0.5	SDY201600502
	250A	1A	2.5VA	0.5	SDY202500502
	400A	1A	2.5VA	0.5	SDY204000502
	630A	1A	2.5VA	0.5	SDY206300502

Dimensions

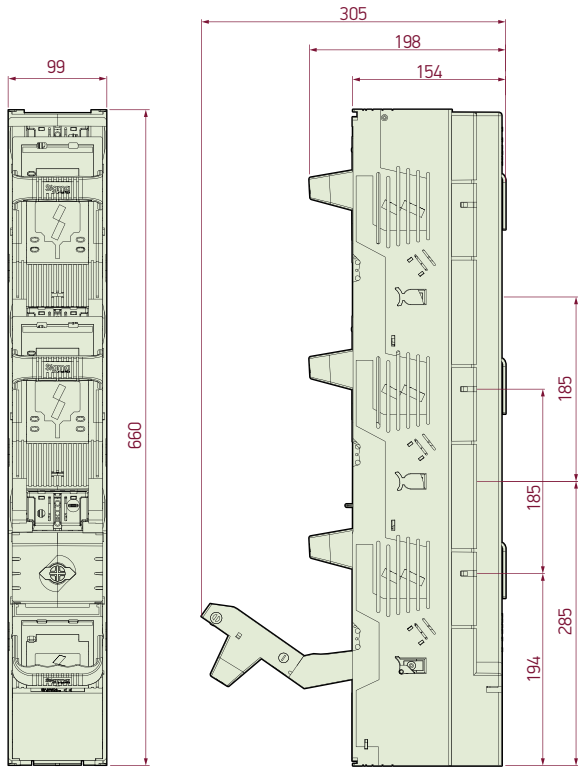
SDY160
(3 Phase can open seperately)



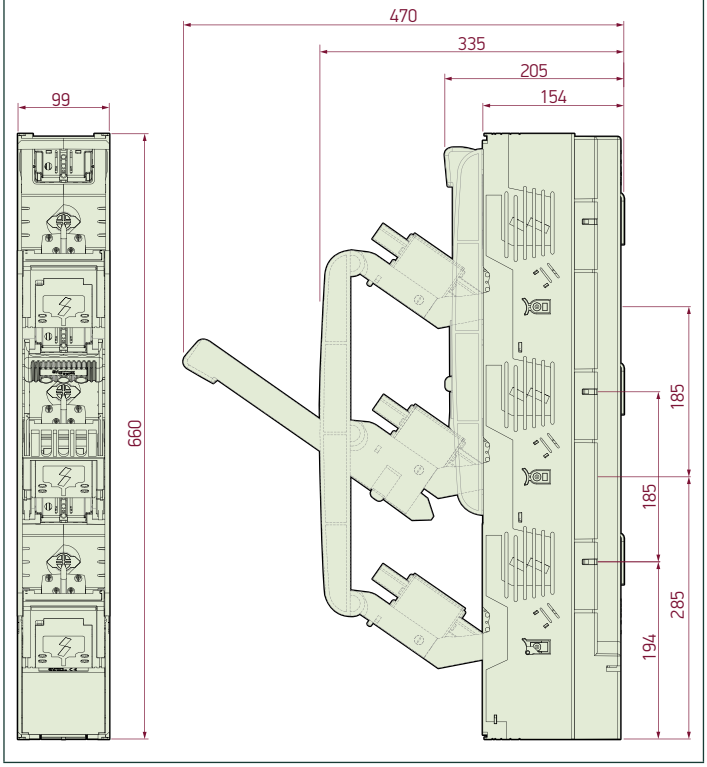
SDY160
(3 Phase can open together)



SDY250-400-630
(3 Phase can open seperately)

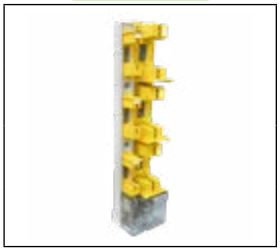


SDY250-400-630
(3 Phase can open together)



Vertical Type NH Fuse Bases

New Product!



Type Code	Number of poles	Rated Current	NH sigorta / Boy	Order Code
SDYB-160	**3P**	160A	NH00-NH00C	**SDYB160**
SDYB-250	**3P**	250A	NH1	**SDYB250**
SDYB-400	**3P**	400A	NH2	**SDYB400**
SDYB-630	**3P**	630A	NH3	**SDYB630**

Horizontal Type Fuse Switch Disconnectors



Size	Rated Current In (A)	Fuse Size	Minimum Order (pcs)	Pcs in a Box (pcs)	Order Code
SFH-160	160	C00-00	1	9	**SFH160**
SFH-250	250	1	1	3	**SFH250**
SFH-400	400	2	1	1	**SFH400**
SFH-630	630	3	1	1	**SFH630**

160A Horizontal Type Fuse Switch Disconnector with Electronic NH Fuse Monitoring Module

New Product!



Size	Rated Current In (A)	Fuse Size	Minimum Order (pcs)	Pcs in a Box (pcs)	Order Code
SFH-160M	160	C00-00	1	9	**SFH160M**

Horizontal Type Fuse Switch Disconnectors Accesories

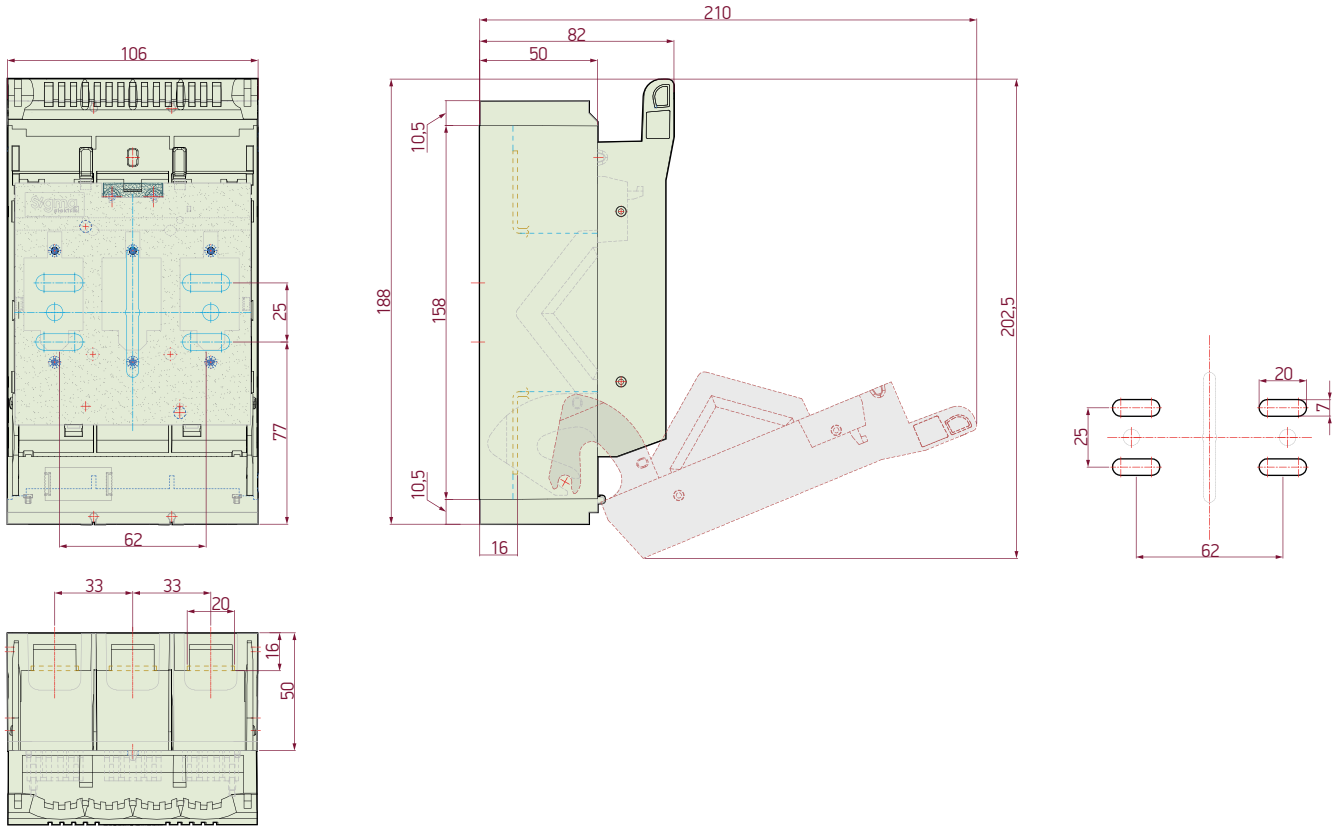
New Product!



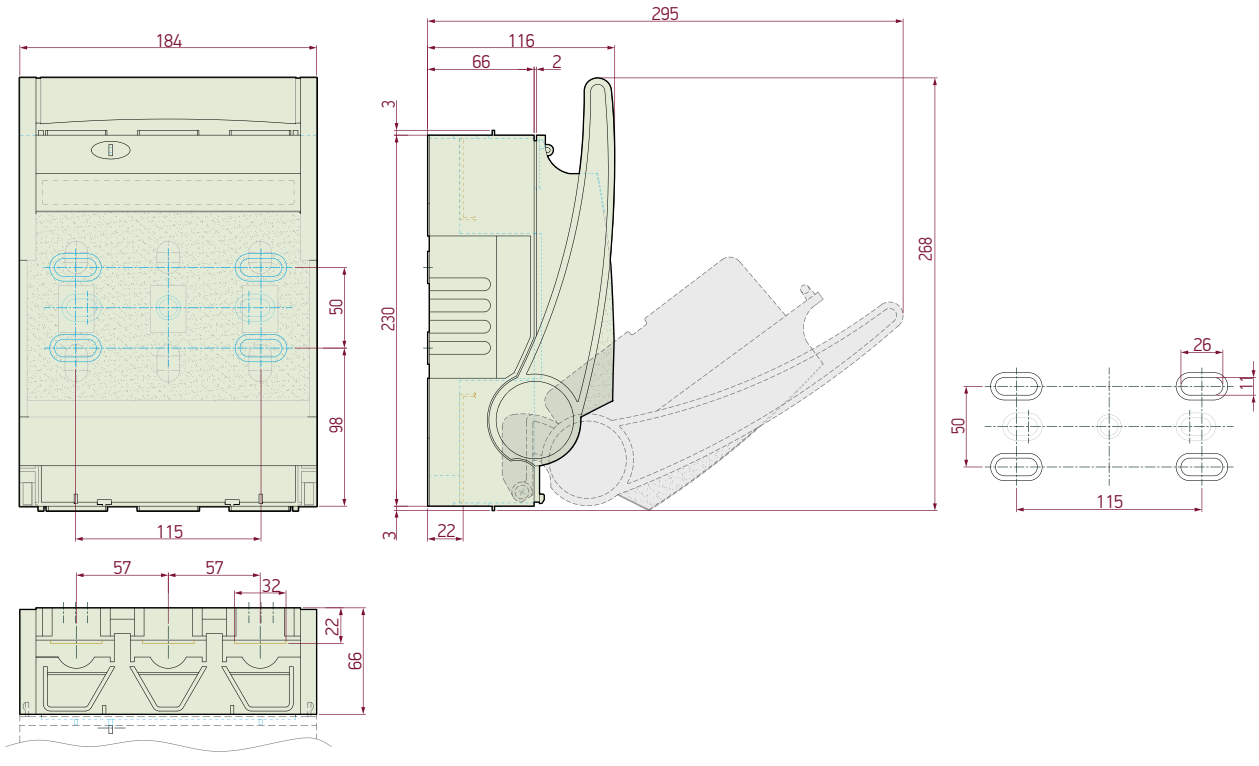
Type Code	Description	Quantity	Order Code
SFH-160	SFH160 V clamp	1 Set - 3 Pieces	**SFH160YKK**
	SFH160 Rising clamp	1 Set - 3 Pieces	**SFH160AK**
	SFH160 Bridge clamp	1 Set - 3 Pieces	**SFH160KK**
	SFH160 Box Type clamp	1 Set - 3 Pieces	**SFH160PK**

Dimensions

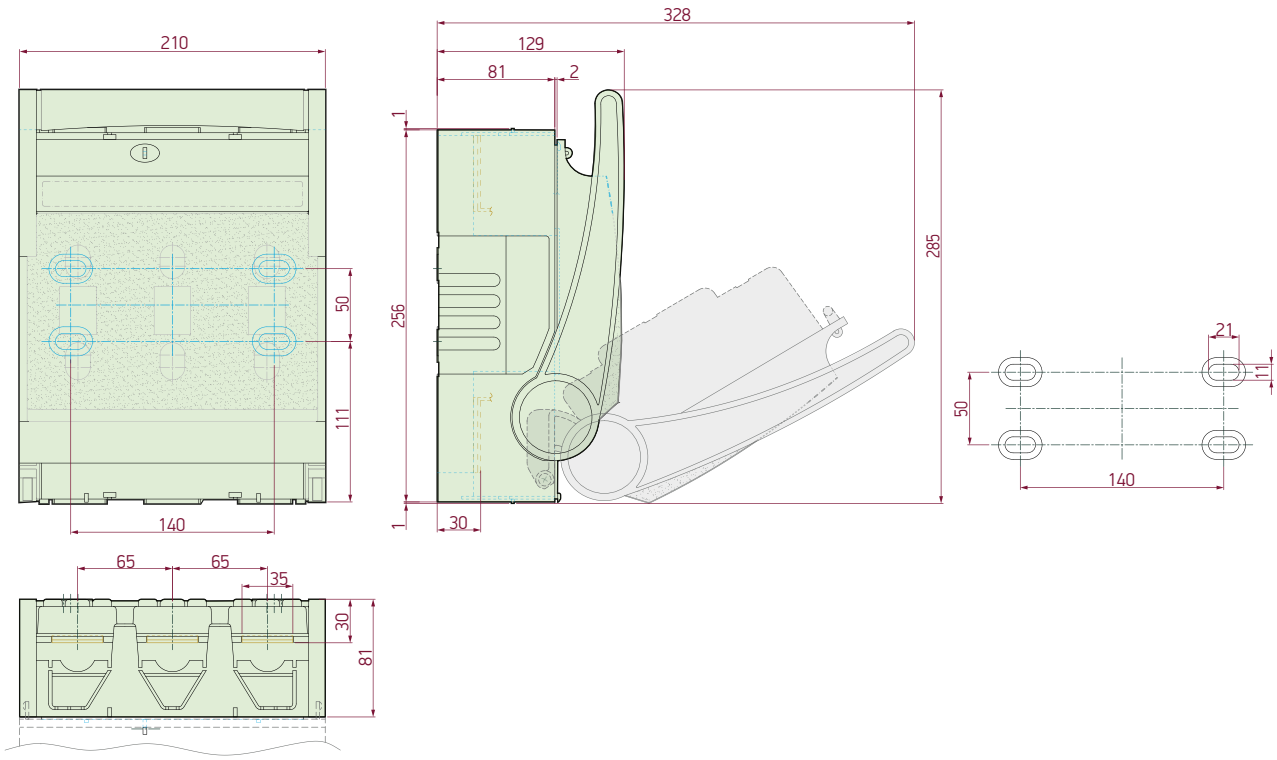
SFH160



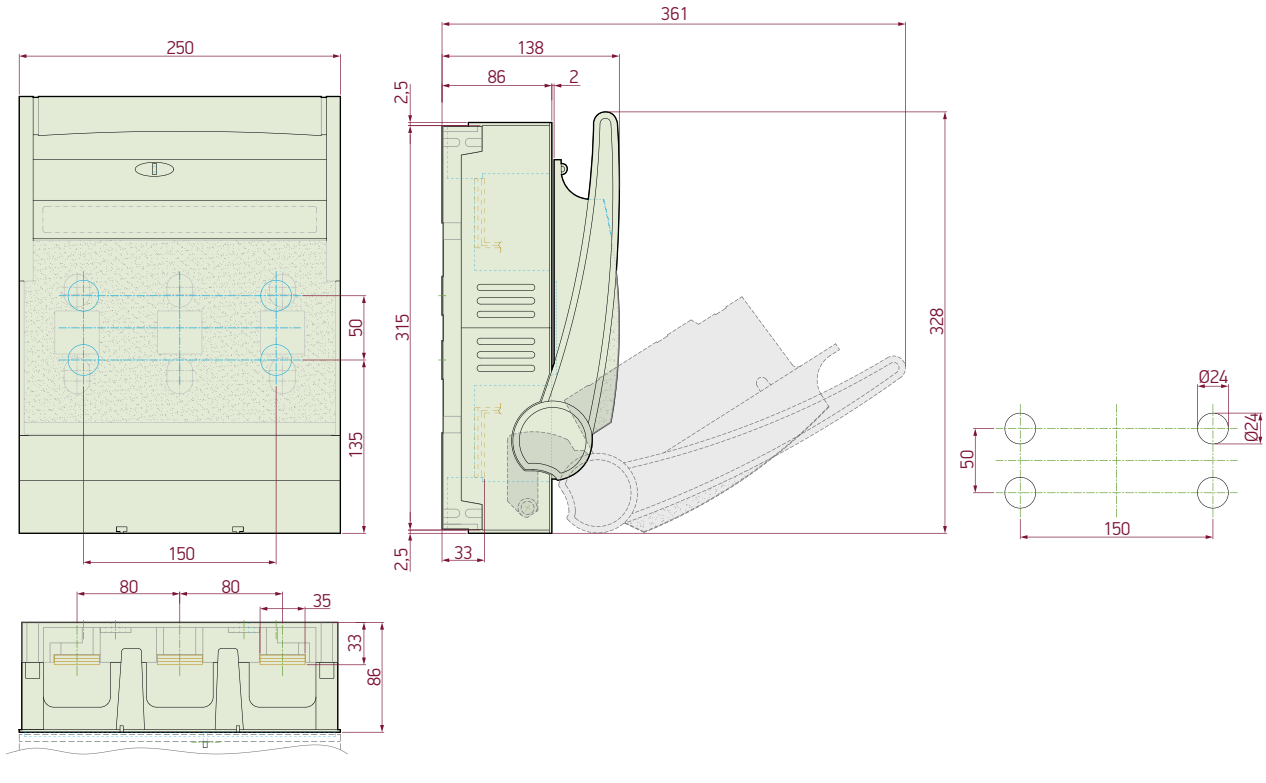
SFH250



SFH400

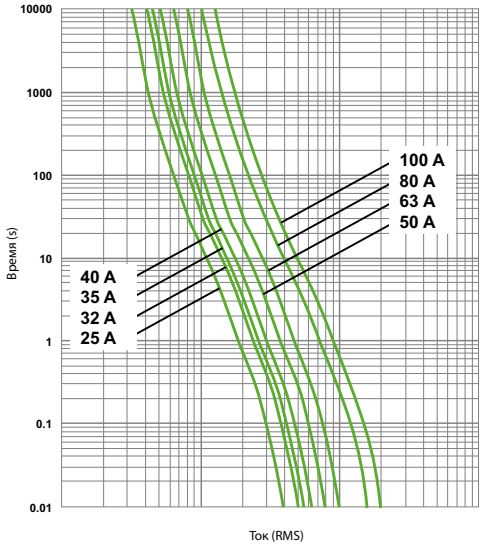


SFH400

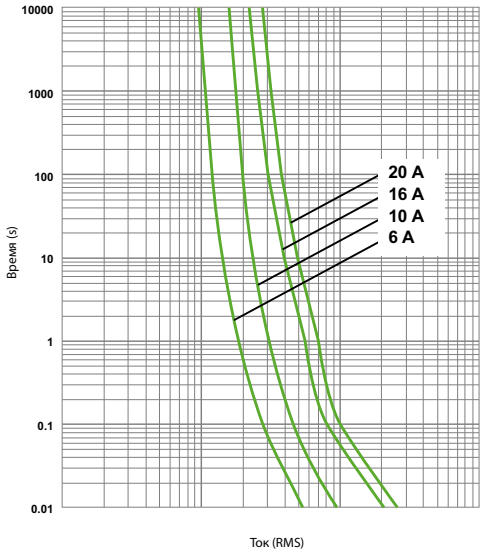


Time-Current Curves

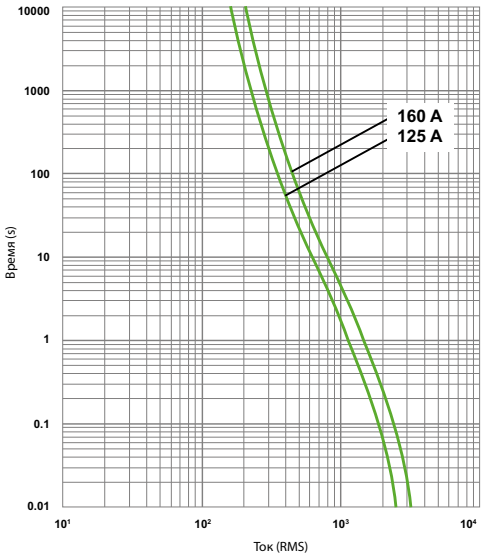
NHC00



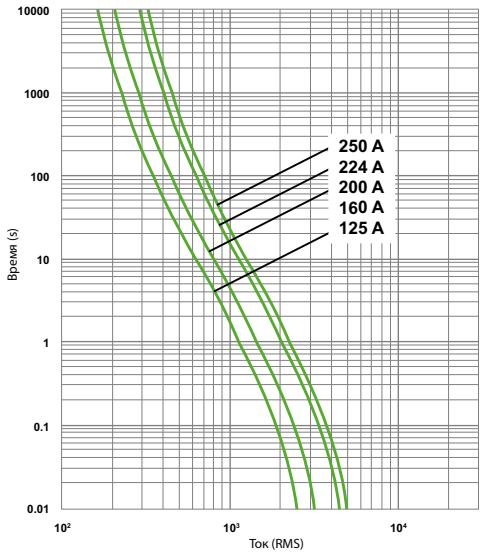
NHC00



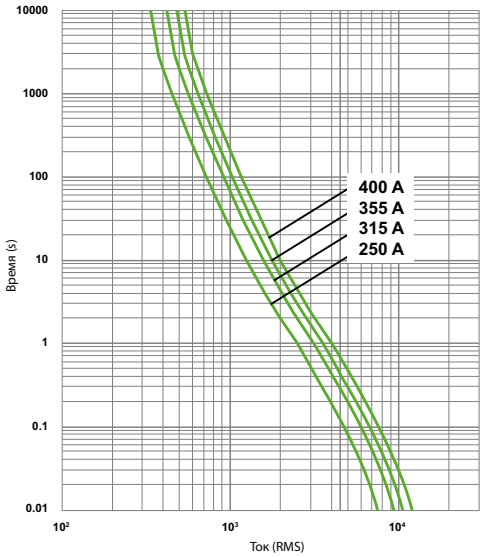
NH00



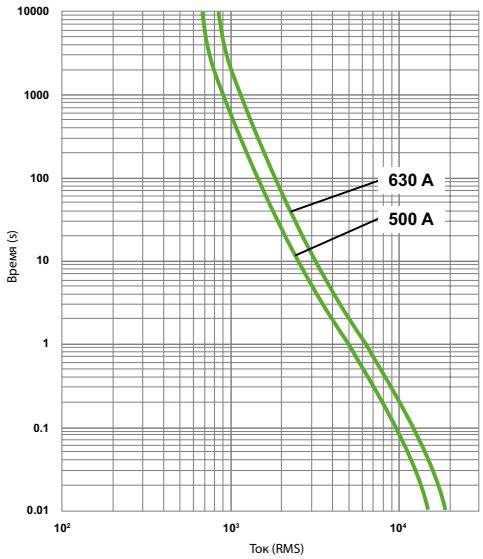
NH1



NH2



NH3



NH Fuses (Double Indicator)



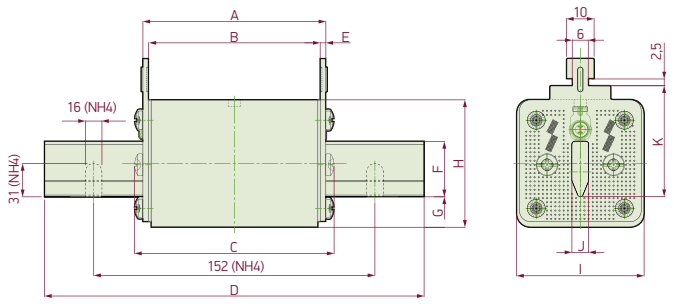




Size	Rated Current In (A)	Breaking Cap. (kA)	Indicator	Minimum Order	Pcs in a Box	Order Code
NHC00	6	120	Double Indicator	10	180	SNHC00I006
	10	120	Double Indicator	10	180	SNHC00I010
	16	120	Double Indicator	10	180	SNHC00I016
	20	120	Double Indicator	10	180	SNHC00I020
	25	120	Double Indicator	10	180	SNHC00I025
	32	120	Double Indicator	10	180	SNHC00I032
	40	120	Double Indicator	10	180	SNHC00I040
	50	120	Double Indicator	10	180	SNHC00I050
	63	120	Double Indicator	10	180	SNHC00I063
	80	120	Double Indicator	10	180	SNHC00I080
	100	120	Double Indicator	10	180	SNHC00I100
NH00	6	120	Double Indicator	10	96	SNH00I0006
	10	120	Double Indicator	10	96	SNH00I0010
	16	120	Double Indicator	10	96	SNH00I0016
	20	120	Double Indicator	10	96	SNH00I0020
	25	120	Double Indicator	10	96	SNH00I0025
	32	120	Double Indicator	10	96	SNH00I0032
	40	120	Double Indicator	10	96	SNH00I0040
	50	120	Double Indicator	10	96	SNH00I0050
	63	120	Double Indicator	10	96	SNH00I0063
	80	120	Double Indicator	10	96	SNH00I0080
	100	120	Double Indicator	10	96	SNH00I0100
	125	120	Double Indicator	10	96	SNH00I0125
	160	120	Double Indicator	10	96	SNH00I0160
NH1	40	120	Double Indicator	3	36	SNH1I00040
	63	120	Double Indicator	3	36	SNH1I00063
	80	120	Double Indicator	3	36	SNH1I00080
	100	120	Double Indicator	3	36	SNH1I00100
	125	120	Double Indicator	3	36	SNH1I00125
	160	120	Double Indicator	3	36	SNH1I00160
	200	120	Double Indicator	3	36	SNH1I00200
	250	120	Double Indicator	3	36	SNH1I00250
NH2	63	120	Double Indicator	3	24	SNH2I00063
	80	120	Double Indicator	3	24	SNH2I00080
	100	120	Double Indicator	3	24	SNH2I00100
	125	120	Double Indicator	3	24	SNH2I00125
	160	120	Double Indicator	3	24	SNH2I00160
	200	120	Double Indicator	3	24	SNH2I00200
	250	120	Double Indicator	3	24	SNH2I00250
	315	120	Double Indicator	3	24	SNH2I00315
	400	120	Double Indicator	3	24	SNH2I00400
NH3	250	120	Double Indicator	3	24	SNH3I0250
	315	120	Double Indicator	3	24	SNH3I0315
	400	120	Double Indicator	3	24	SNH3I0400
	500	120	Double Indicator	3	24	SNH3I0500
	630	120	Double Indicator	3	24	SNH3I0630
NH4	800	120	Tek Göstergeli	3	24	SNH4I0800
	1000	120	Tek Göstergeli	3	24	SNH4I1000
	1250	120	Tek Göstergeli	3	24	SNH4I1250

Note: The prices listed are for silver-plated NH blade fuses. Please request a price for tin plated NH blade fuses.

Dimensions



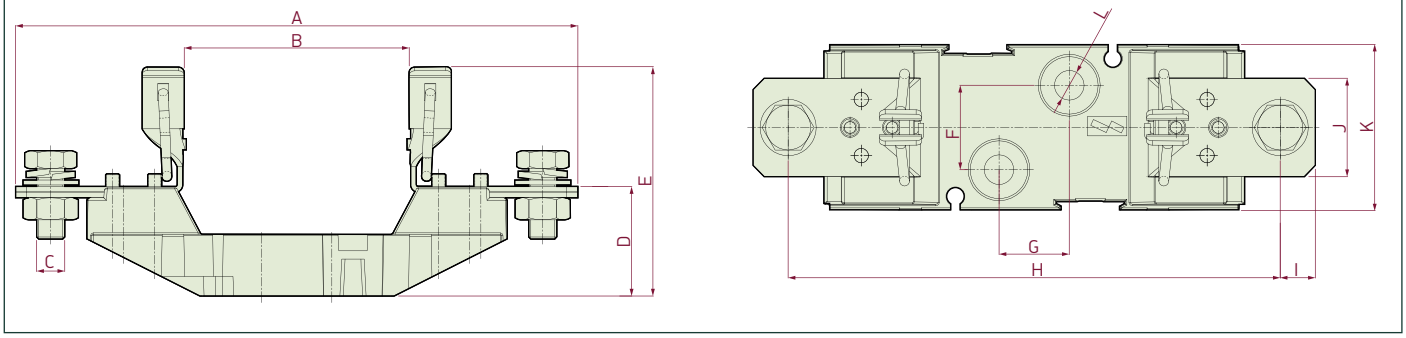
	A	B	C	D	E	F	G	H	I	J	K
NH4	66	60	86	202	3	50	18	95	87	8	82
NH3	66	62	72	151	2	32	17	72	72	6	60
NH2	66	62	72	151	2	25	15	57	57	6	48,5
NH1	66	62	72	137	2	20	11	46	46	6	40
NH0	66	62	68	121	2	15	13	43	30	6	35
NH00	50	46	54	79	2	15	13	43	30	6	35
NHC00	50	46	54	79	2	15	8	40	21	6	35

NH Fuse Bases



Size	Rated Current In (A)	Body Material	Minimum Order	Box Qty	Order Code
NHC00 - NH00	160	BMC	5	45	**SNB00**
NH1	250	BMC	5	15	**SNB01**
NH2	400	BMC	5	9	**SNB02**
NH3	630	BMC	5	9	**SNB03**
NH4	1250	BMC	5	9	**SNB04**

Dimensions



	A	B	C	D	E	F	G	H	I	J	K	L
SNB04	302	113,5	M16	48	145	30	45	260	21	45	86	Ø10
SNB03	240	80	M10	40	98	30	25	210	15	35	59	Ø10,5
SNB02	225	80	M10	39,5	89	30	25	200	12,5	35	59	Ø10,5
SNB01	200	80	M10	39	82	30	25	175	12,5	35	59	Ø10,5
SNB00	120	58	M8	23	56	-	25	100	10	20	35	Ø7,5

NH Fuse Handle



Type Code	Rated Voltage	Box Qty	Order Code
SNHE	1000	15	**SNHE**

Maximum Power Dissipation for NH Fuse Links

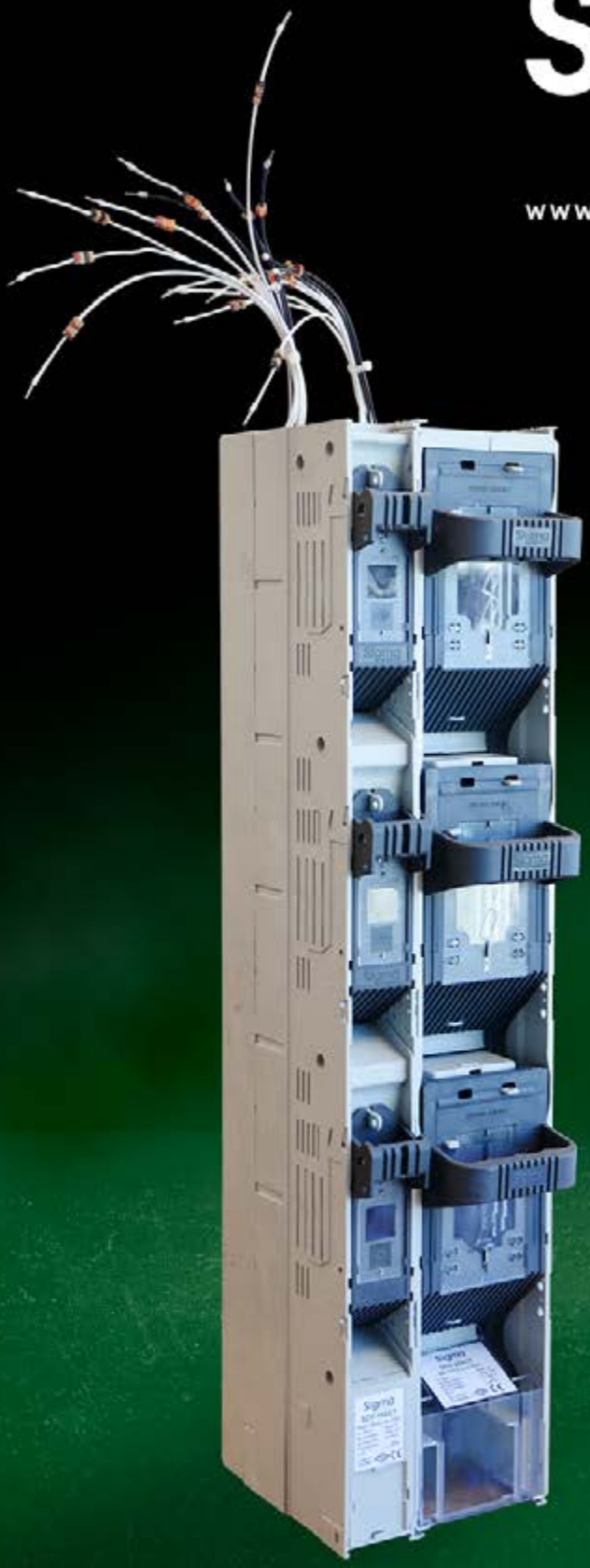
	Rated Current In (A)	IEC EN 60269-1	SİGMA
SNHC00	6	12 W	1.8 W
	10	12 W	2.1 W
	16	12 W	2.4 W
	20	12 W	2.7 W
	25	12 W	2.9 W
	32	12 W	3.7 W
	40	12 W	4.3 W
	50	12 W	4.7 W
	63	12 W	6 W
	80	12 W	6.8 W
	100	12 W	8.8 W
SNH00	6	12 W	2 W
	10	12 W	3 W
	16	12 W	3 W
	20	12 W	4 W
	25	12 W	4 W
	32	12 W	4 W
	40	12 W	5 W
	50	12 W	6 W
	63	12 W	7 W
	80	12 W	9 W
	100	12 W	10 W
	125	12 W	12 W
	160	12 W	12 W

	Rated Current In (A)	IEC EN 60269-1	SİGMA
SNH0	63	23 W	9,5 W
	80	23 W	10 W
	100	23 W	12 W
	125	23 W	14 W
	160	23 W	16 W
SNH1	40	23 W	8,5 W
	63	23 W	9,5 W
	80	23 W	10 W
	100	23 W	12 W
	125	23 W	14 W
	160	23 W	16 W
	200	23 W	18 W
	250	23 W	22 W
SNH2	63	34 W	10 W
	80	34 W	12 W
	100	34 W	14 W
	125	34 W	16 W
	160	34 W	18 W
	200	34 W	20 W
	250	34 W	30 W
	315	34 W	32 W
	400	34 W	34 W

	Rated Current In (A)	IEC EN 60269-1	SİGMA
SNH3	315	48 W	30 W
	400	48 W	36 W
	500	48 W	48 W
	630	48 W	48 W
SNH4	800	-	68W
	1000	-	80W
	1250	-	108W

Sigma elektrik

www.sigmaelektrik.com



VERTICAL TYPE FUSE SWITCH DISCONNECTOR with CURRENT TRANSFORMER

Sigma elektrik



MINIATURE CIRCUIT **BREAKERS**

Miniature circuit breakers are devices that protect the circuit they are connected to against overload and short circuits, and also perform the function of opening and closing the circuit.

- Rated current from 1A to 125A
- Production available in B, C and D types
- 4.5kA, 6kA, 10kA (IEC/EN 60898-1) - 15kA (IEC/ EN 60947-2) short circuit breaking capacity
- 1, 2, 3 and 4 pole product variety
- IP20 protection degree
- High electrical and mechanical life
- Crowning handle compatible with accessories (Auxiliary contact, opening coil, motor mechanism, alarm contact)

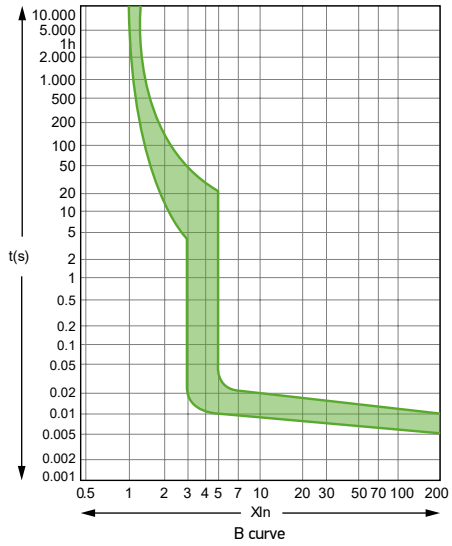
Miniature Circuit Breaker - Technical Specifications

			SND 4500				SND 6000				SND 10000			
Standards			IEC/EN 60898-1				IEC/EN 60898-1				IEC/EN 60898-1			
Number of poles			1	2	3	4	1	2	3	4	1	2	3	4
Rated nominal current (at 30°C)	In	A	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63				1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63				2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63			
Instantaneous tripping class			B : (3-5)xIn C : (5-10)xIn				B : (3-5)xIn C : (5-10)xIn D: (10-20)xIn				B : (3-5)xIn C : (5-10)xIn D: (10-20)xIn			
Power supply			AC				AC				AC			
Rated operating voltage	Ue	AC (V)	230/400	400			230/400	400			230/400	400		
Rated insulation voltage	Ui	V	750				750				750			
Rated impulse withstand voltage	Uimp	kV	6				6				6			
Rated short circuit capacity	Icn	kA	4,5				6				10			
Energy limiting class			3				3				3			
Electrical life (No. operation)	op.	230V	4.000				6.000				5.000			
Mechanical life (No. operation)	op.		20.000				20.000				20.000			
Protection class			IP 20				IP 20				IP 20			
Operating temperature		°C	-30 ... +60				-30 ... +60				-30 ... +60			
Storage temperature		°C	-40 ... +70				-40 ... +70				-40 ... +70			
Relative Humidity		%	95				95				95			
Assembly (EN 60715)			35mm DIN Rail				35mm DIN Rail				35mm DIN Rail			
Min. Max. Connection section		mm^2	1 – 25				1 – 25				25 – 50			
Max. Clamping torque		Nm	2				2				3,5			

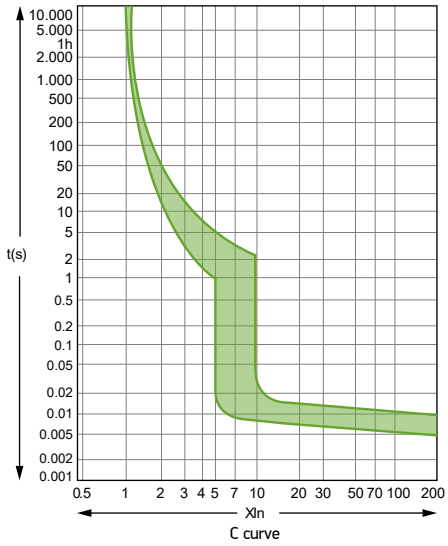
			SXD-63				SXD-125				SKD 6000				SLD 10000			
Standards			EC/ EN 60947-2				EC/ EN 60947-2				IEC/EN 60898-1)				IEC/EN 60898-1)			
Number of poles			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Rated nominal current (at 30°C)	In	A	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63				80, 100, 125				80, 100, 125				80, 100, 125			
Instantaneous tripping class			C : (5-10)xIn				C : (5-10)xIn				C : (5-10)xIn				C : (5-10)xIn			
Power supply			AC				AC				AC				AC			
Rated operating voltage	Ue	AC (V)	230/400	400			230/400	400			230/400	400			230/400	400		
Rated insulation voltage	Ui	V	750				750				750				750			
Rated impulse withstand voltage	Uimp	kV	6				6				6				6			
Rated short circuit capacity	Icn	kA	15				15				6				10			
Energy limiting class			3				3				3				3			
Electrical life (No. operation)	op.	230V	4.000				4.000				5.000				5.000			
Mechanical life (No. operation)	op.		15.000				15.000				20.000				20.000			
Protection class			IP 20				IP 20				IP 20				IP 20			
Operating temperature		oC	-30 ... +60				-30 ... +60				-30 ... +60				-30 ... +60			
Storage temperature		oC	-40 ... +70				-40 ... +70				-40 ... +70				-40 ... +70			
Relative Humidity		%	95				95				95				95			
Assembly (EN 60715)			35mm DIN Rail				35mm DIN Rail				35mm DIN Rail				35mm DIN Rail			
Min. Max. Connection section		mm^2	2,5 – 50				2,5 – 50				25 – 50				25 – 50			
Max. Clamping torque		Nm	3,5				3,5				3,5				3,5			

Time- Current Characteristic

SND 4500

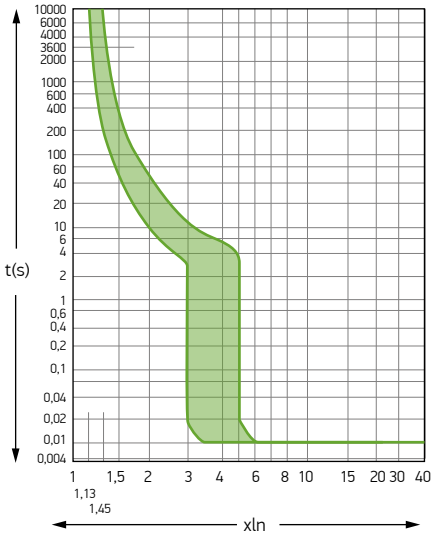


B curve

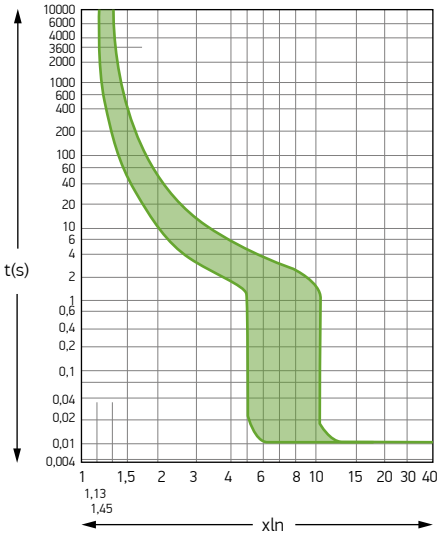


C curve

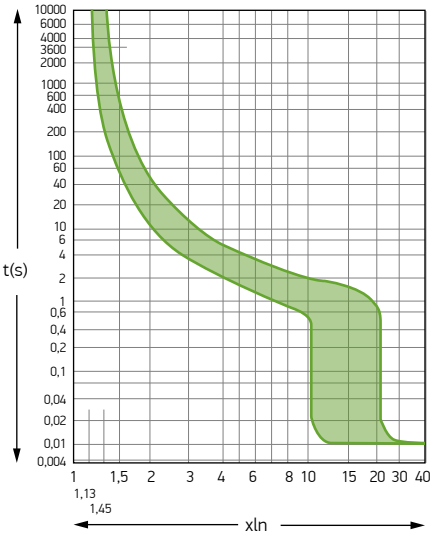
SND 6000



B curve

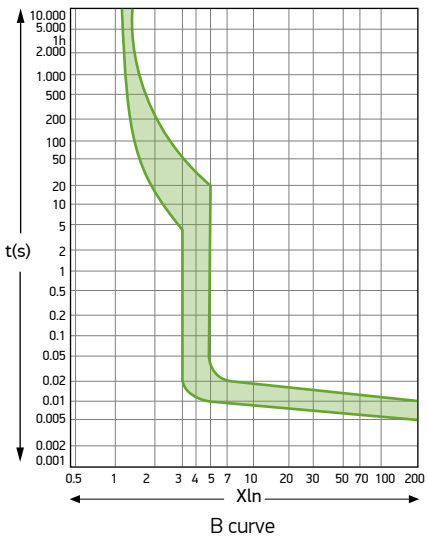


C curve

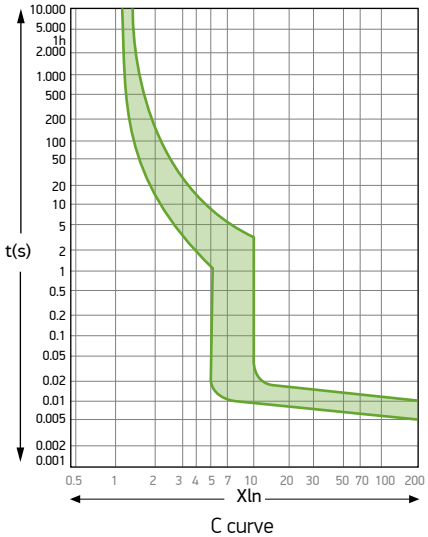


D curve

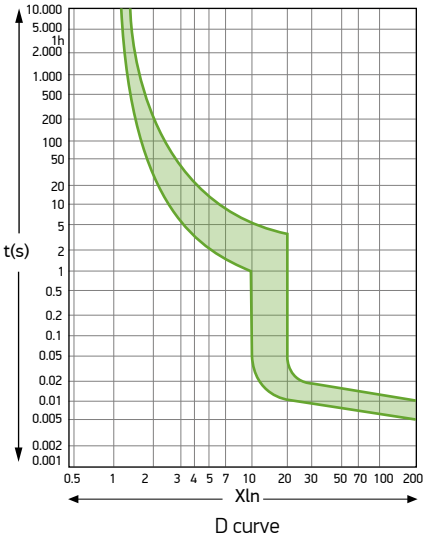
SND 10000



B curve

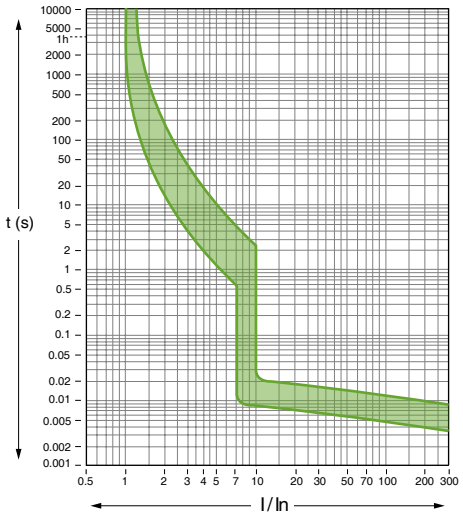


C curve

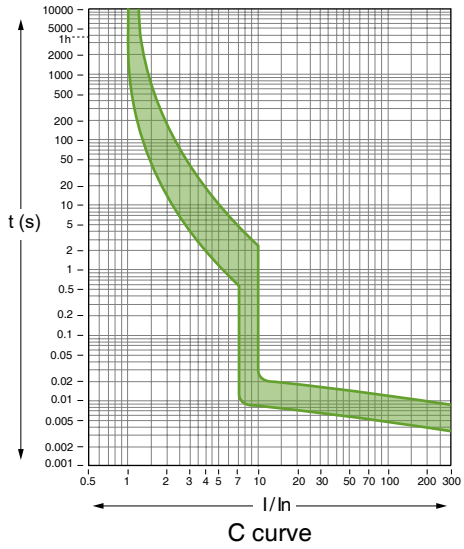


D curve

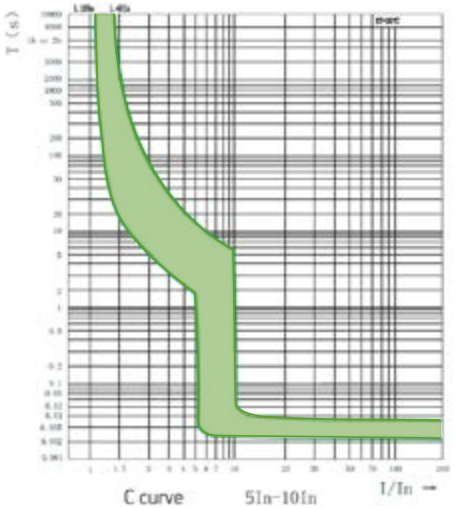
SKD 6000



SLD 10000

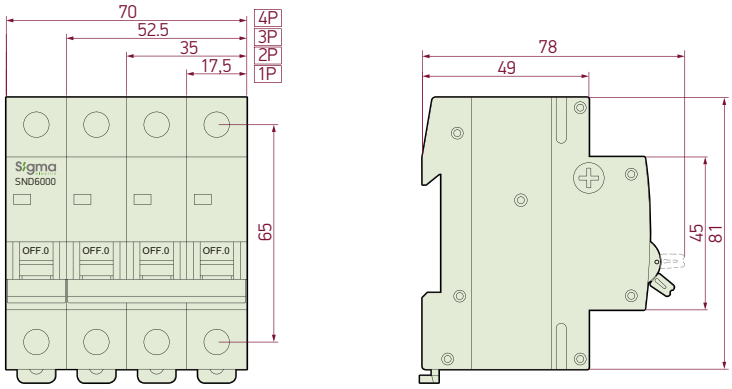


SXD C curve

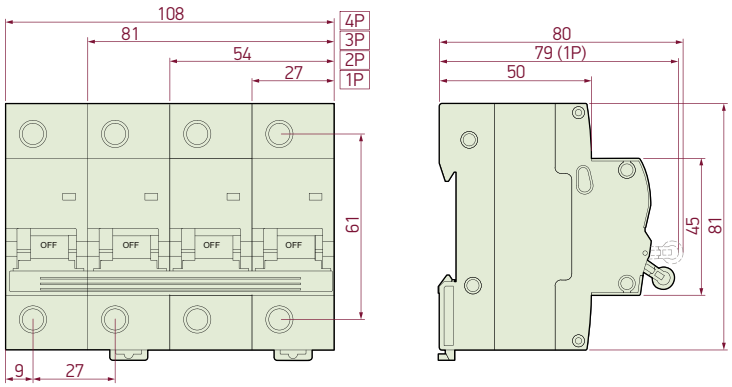


Dimensions

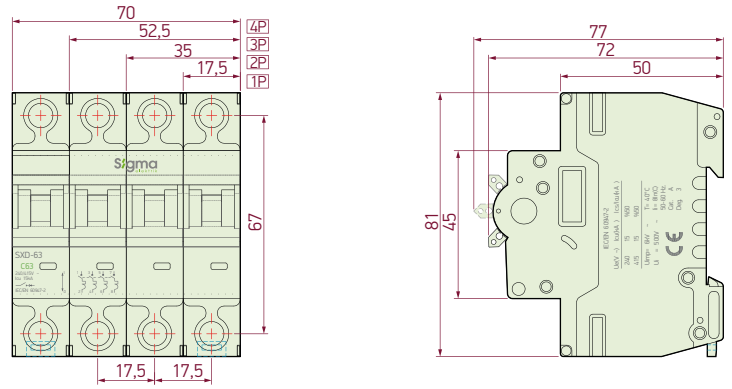
4,5 kA - 6 kA (1A-63A) [SND 4500, SND 6000]
6 kA (80A-100A-125A) [SKD 6000]



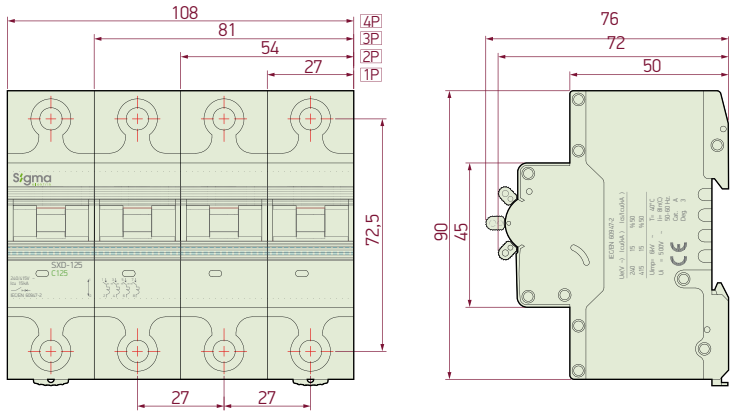
10kA (80A-100A-125A) [SLD 10000]



15 kA (2A-63A) [SXD-63]



15kA (80A-100A-125A) [SXD-125]



4.5 kA MCB / SND 4500

	Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code for B Type	Order Code for C Type
	1P	2	12	240	4SM102B	4SM102C
		4	12	240	4SM104B	4SM104C
		6	12	240	4SM106B	4SM106C
		10	12	240	4SM110B	4SM110C
		16	12	240	4SM116B	4SM116C
		20	12	240	4SM120B	4SM120C
		25	12	240	4SM125B	4SM125C
		32	12	240	4SM132B	4SM132C
		40	12	240	4SM140B	4SM140C
		50	12	240	4SM150B	4SM150C
		63	12	240	4SM163B	4SM163C
	2P	2	6	120		4SM202C
		4	6	120		4SM204C
		6	6	120		4SM206C
		10	6	120		4SM210C
		16	6	120		4SM216C
		20	6	120		4SM220C
		25	6	120		4SM225C
		32	6	120		4SM232C
		40	6	120		4SM240C
		50	6	120		4SM250C
		63	6	120		4SM263C
	3P	2	4	80		4SM302C
		4	4	80		4SM304C
		6	4	80		4SM306C
		10	4	80		4SM310C
		16	4	80		4SM316C
		20	4	80		4SM320C
		25	4	80		4SM325C
		32	4	80		4SM332C
		40	4	80		4SM340C
		50	4	80		4SM350C
		63	4	80		4SM363C
	4P	2	3	60		4SM402C
		4	3	60		4SM404C
		6	3	60		4SM406C
		10	3	60		4SM410C
		16	3	60		4SM416C
		20	3	60		4SM420C
		25	3	60		4SM425C
		32	3	60		4SM432C
		40	3	60		4SM440C
		50	3	60		4SM450C
		63	3	60		4SM463C

Note: SND 4500 type miniature circuit breakers are available in 1-pole (60V DC), 2-pole (110V DC), and 4-pole (250V DC) versions for various DC systems.

6 kA MCB / SND 6000 (IEC/EN 60898-1)

	Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code for B Type	Order Code for C Type	Order Code for D Type
	1P	1	12	240	6SM101B	6SM101C	6SM101D
		2	12	240	6SM102B	6SM102C	6SM102D
		3	12	240	6SM103B	6SM103C	6SM103D
		4	12	240	6SM104B	6SM104C	6SM104D
		5	12	240	6SM105B	6SM105C	6SM105D
		6	12	240	6SM106B	6SM106C	6SM106D
		10	12	240	6SM110B	6SM110C	6SM110D
		16	12	240	6SM116B	6SM116C	6SM116D
		20	12	240	6SM120B	6SM120C	6SM120D
		25	12	240	6SM125B	6SM125C	6SM125D
		32	12	240	6SM132B	6SM132C	6SM132D
		40	12	240	6SM140B	6SM140C	6SM140D
		50	12	240	6SM150B	6SM150C	6SM150D
		63	12	240	6SM163B	6SM163C	6SM163D
	2P	2	6	120		6SM202C	6SM202D
		4	6	120		6SM204C	6SM204D
		6	6	120		6SM206C	6SM206D
		10	6	120		6SM210C	6SM210D
		16	6	120		6SM216C	6SM216D
		20	6	120		6SM220C	6SM220D
		25	6	120		6SM225C	6SM225D
		32	6	120		6SM232C	6SM232D
		40	6	120		6SM240C	6SM240D
		50	6	120		6SM250C	6SM250D
		63	6	120		6SM263C	6SM263D
	3P	2	4	80		6SM302C	6SM302D
		4	4	80		6SM304C	6SM304D
		6	4	80		6SM306C	6SM306D
		10	4	80		6SM310C	6SM310D
		16	4	80		6SM316C	6SM316D
		20	4	80		6SM320C	6SM320D
		25	4	80		6SM325C	6SM325D
		32	4	80		6SM332C	6SM332D
		40	4	80		6SM340C	6SM340D
		50	4	80		6SM350C	6SM350D
		63	4	80		6SM363C	6SM363D
	4P	2	3	60		6SM402C	6SM402D
		4	3	60		6SM404C	6SM404D
		6	3	60		6SM406C	6SM406D
		10	3	60		6SM410C	6SM410D
		16	3	60		6SM416C	6SM416D
		20	3	60		6SM420C	6SM420D
		25	3	60		6SM425C	6SM425D
		32	3	60		6SM432C	6SM432D
		40	3	60		6SM440C	6SM440D
		50	3	60		6SM450C	6SM450D
		63	3	60		6SM463C	6SM463D

Note: SND 6000 type miniature circuit breakers can be used in 60V DC systems with 1 pole, 110V DC systems with 2 poles, and 250V DC systems with 4 poles.

10 kA MCB / SND 10000 (IEC/EN 60898-1)

	Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code for B Type	Order Code for C Type	Order Code for D Type
	1P	2	12	240	1SM102B	1SM102C	1SM102D
		4	12	240	1SM104B	1SM104C	1SM104D
		6	12	240	1SM106B	1SM106C	1SM106D
		10	12	240	1SM110B	1SM110C	1SM110D
		16	12	240	1SM116B	1SM116C	1SM116D
		20	12	240	1SM120B	1SM120C	1SM120D
		25	12	240	1SM125B	1SM125C	1SM125D
		32	12	240	1SM132B	1SM132C	1SM132D
		40	12	240	1SM140B	1SM140C	1SM140D
		50	12	240	1SM150B	1SM150C	1SM150D
		63	12	240	1SM163B	1SM163C	1SM163D
	2P	2	6	120		1SM202C	1SM202D
		4	6	120		1SM204C	1SM204D
		6	6	120		1SM206C	1SM206D
		10	6	120		1SM210C	1SM210D
		16	6	120		1SM216C	1SM216D
		20	6	120		1SM220C	1SM220D
		25	6	120		1SM225C	1SM225D
		32	6	120		1SM232C	1SM232D
		40	6	120		1SM240C	1SM240D
		50	6	120		1SM250C	1SM250D
		63	6	120		1SM263C	1SM263D
	3P	2	4	80		1SM302C	1SM302D
		4	4	80		1SM304C	1SM304D
		6	4	80		1SM306C	1SM306D
		10	4	80		1SM310C	1SM310D
		16	4	80		1SM316C	1SM316D
		20	4	80		1SM320C	1SM320D
		25	4	80		1SM325C	1SM325D
		32	4	80		1SM332C	1SM332D
		40	4	80		1SM340C	1SM340D
		50	4	80		1SM350C	1SM350D
		63	4	80		1SM363C	1SM363D
	4P	2	3	60		1SM402C	1SM402D
		4	3	60		1SM404C	1SM404D
		6	3	60		1SM406C	1SM406D
		10	3	60		1SM410C	1SM410D
		16	3	60		1SM416C	1SM416D
		20	3	60		1SM420C	1SM420D
		25	3	60		1SM425C	1SM425D
		32	3	60		1SM432C	1SM432D
		40	3	60		1SM440C	1SM440D
		50	3	60		1SM450C	1SM450D
		63	3	60		1SM463C	1SM463D

Note: SND 10000 type miniature circuit breakers can be used in 60V DC systems with 1 pole, 110V DC systems with 2 poles, and 250V DC systems with 4 poles.

15 kA MCB / SXD-63 (Miniature Circuit Breaker for industrial applications - IEC/ EN 60947-2)

New Product!

Kutup Sayısı	Anma Akımı In (A)	Minimum Sip. Adedi	Pcs in a Box	Order Code
 1P	2	12	240	1SXD102C
	4	12	240	1SXD104C
	6	12	240	1SXD106C
	10	12	240	1SXD110C
	16	12	240	1SXD116C
	20	12	240	1SXD120C
	25	12	240	1SXD125C
	32	12	240	1SXD132C
	40	12	240	1SXD140C
	50	12	240	1SXD150C
	63	12	240	1SXD163C
 2P	2	6	120	1SXD202C
	4	6	120	1SXD204C
	6	6	120	1SXD206C
	10	6	120	1SXD210C
	16	6	120	1SXD216C
	20	6	120	1SXD220C
	25	6	120	1SXD225C
	32	6	120	1SXD232C
	40	6	120	1SXD240C
	50	6	120	1SXD250C
	63	6	120	1SXD263C
 3P	2	4	80	1SXD302C
	4	4	80	1SXD304C
	6	4	80	1SXD306C
	10	4	80	1SXD310C
	16	4	80	1SXD316C
	20	4	80	1SXD320C
	25	4	80	1SXD325C
	32	4	80	1SXD332C
	40	4	80	1SXD340C
	50	4	80	1SXD350C
	63	4	80	1SXD363C
 4P	2	3	60	1SXD402C
	4	3	60	1SXD404C
	6	3	60	1SXD406C
	10	3	60	1SXD410C
	16	3	60	1SXD416C
	20	3	60	1SXD420C
	25	3	60	1SXD425C
	32	3	60	1SXD432C
	40	3	60	1SXD440C
	50	3	60	1SXD450C
	63	3	60	1SXD463C

80-100-125A MCB 6 kA / SKD 6000 (IEC/EN 60898-1)



Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code
1P	80	12	120	6SK180C
	100	12	120	6SK100C
	125	12	120	6SK112C
2P	80	6	60	6SK280C
	100	6	60	6SK200C
	125	6	60	6SK212C
3P	80	4	40	6SK380C
	100	4	40	6SK300C
	125	4	40	6SK312C
4P	80	3	30	6SK480C
	100	3	30	6SK400C
	125	3	30	6SK412C

Note: SKD 6000 type miniature circuit breakers can be used in 60V DC systems with 1 pole, 110V DC systems with 2 poles, and 250V DC systems with 4 poles.

80-100-125A MCB 10 kA / SLD 10000 (IEC/EN 60898-1)

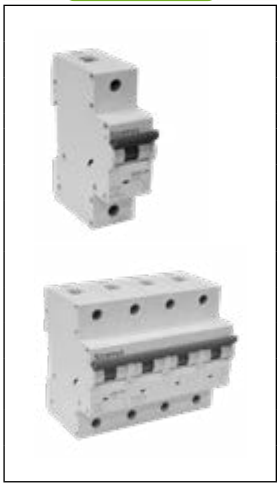


Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code
1P	80	12	120	1SL180C
	100	12	120	1SL100C
	125	12	120	1SL112C
2P	80	6	60	1SL280C
	100	6	60	1SL200C
	125	6	60	1SL212C
3P	80	4	40	1SL380C
	100	4	40	1SL300C
	125	4	40	1SL312C
4P	80	3	30	1SL480C
	100	3	30	1SL400C
	125	3	30	1SL412C

Note: SLD 10000 type miniature circuit breakers can be used in 60V DC systems with 1 pole, 110V DC systems with 2 poles, and 250V DC systems with 4 poles.

80-100-125A MCB 15 kA / SXD-125 (IEC/ EN 60947-2) (for industrial applications)

New Product!



Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code
1P	80	12	120	1SXD180C
	100	12	120	1SXD100C
	125	12	120	1SXD112C
2P	80	6	60	1SXD280C
	100	6	60	1SXD200C
	125	6	60	1SXD212C
3P	80	4	40	1SXD380C
	100	4	40	1SXD300C
	125	4	40	1SXD312C
4P	80	3	30	1SXD480C
	100	3	30	1SXD400C
	125	3	30	1SXD412C

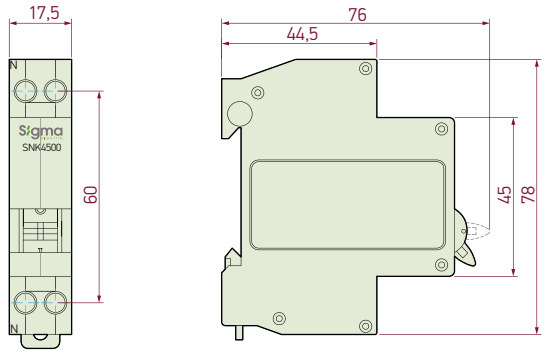
Note: SXD-125 type miniature circuit breakers can be used in 48V DC systems with 1 pole, 110V DC systems with 2 poles, and 250V DC systems with 4 poles.

4.5 kA Phase-Neutral MCB 1P+N (18mm) / SNK 4500

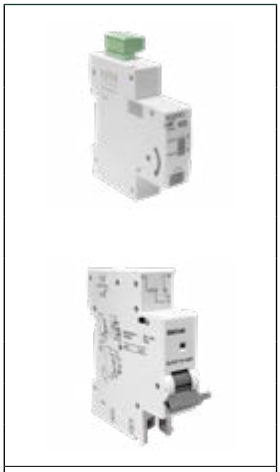


Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code
1P+N	6	12	240	4SN106C
	10	12	240	4SN110C
	16	12	240	4SN116C
	20	12	240	4SN120C
	25	12	240	4SN125C
	32	12	240	4SN132C

SNK 4500



Accessories



	Type Code	Description	Order Code
	SEYK011	1NO+1NC Aux Contact (for SND 6000, SKD 6000, SND 10000 ve SDC 10000)	SEYK011
	SMDYK	1NO+1NC Aux Contact (for SND 4500)	SMDYK011
	SLDYK	1NO+1NC Aux Contact (Ith:3A, 415V AC) (for SLD 10000)	SLDYK011
	SND6AK	1NO+1NC Alarm Contact (Ith:4A, 250V AC) (for SND 6000, SKD 6000, SND 10000 and SDC 10000)	SND6AK
	SMDAK	1NO+1NC Alarm Contact (Ith:4A, 250V AC) (for SND 4500)	SMDAK
	SND6AB	24-48 V AC-DC Shunt Trip Release (for SND 6000, SND 10000 and SDC 10000)	SND6AB024
	SND6AB	230V AC Shunt Trip Release (for SND 6000, SKD 6000 and SND 10000)	SND6AB230
	SMDAB	230V AC Shunt Trip Release (for SND 4500)	SMDAB
	SNDDG	230V AC Undervoltage Release (for SND 6000, SKD 6000 and SND 10000)	SNDDG230
	SMDDG	230V AC Undervoltage Release (for SND 4500)	SMDDG
	SMEK	Safety Lock (for all type MCB)	SMEK
NEW PRODUCT	SXDYK	1NO+1NC Aux Contact (for SXD-63 and SXD-125)	SXDYK011
NEW PRODUCT	SXD63AB230	230 V Aux Contact (for SXD 2A ... 63A)	SXDAB230AC
NEW PRODUCT	SXD125AB230	230 V Aux Contact (for SXD 80A ... 125A)	SXD125AB230AC
NEW PRODUCT	SXDAK	1NO+1NC Alarm Contact (for SXD-63 and SXD-125)	SXDAK
NEW PRODUCT	SXDDG230	230 V Undervoltage Release (for SXD-63 and SXD-125)	SXDDG230

MCB Selection According to Instantaneous Tripping Curve

B Curve: It is used for protection of illumination of incondescent light bulb and heaters.

C Curve: It is used for protection of inductive loads like fluorescent lamps, transformers, power socket plugs, machines, low power motors, air-conditions, cooling machines, power distribution panels.

D Curve: It is used for protection of high power motors, pomps, compressors, capacitors and welding machines.

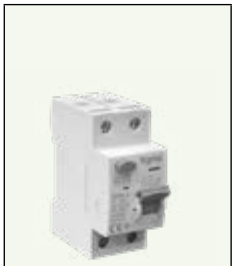
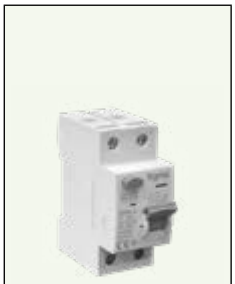
Sigma elektrik



RESIDUAL CURRENT
CIRCUIT BREAKERS

Residual Current Circuit Breakers are protection equipments that help protect living beings from the harmful effects of electrical energy. RCCBs prevent from possible dangers by opening the circuit in case of a leakage current in the system, in order not to endanger the lives of living beings and to prevent from damage to the devices in the system.

- Product diversity in AC, A, A+6mA DC, A-SI, F and B types
- Life (human protection) protection function at 10mA and 30mA, installation (fire protection) protection function at 100mA and 300mA
- 2 and 4 pole product variety
- 6kA and 10kA short circuit breaking capacity
- Rated current from 16A to 125A
- Delayed types, AC type at 300mA and A type at 300mA
- Test button that allows testing electrical and mechanical operability
- Double indicator design

					Wave Form	Application Areas
	AC TYPE	SHM	6kA	Instantaneously	Alternative residual current (AC)	AC type is the most basic protection class, capable of detecting only pure sinusoidal alternating current (50/60Hz) leakage. It is used in circuits with conventional loads that do not contain capacitive, inductive or electronic components ➢ Resistive loads ➢ Conventional lighting ➢ Electric heaters
		SGM	10kA	Instantaneously	Alternative residual current (AC)	
		SDM	10kA	Selective Type	Alternative residual current (AC)	
	A TYPE	SFM	10kA	Instantaneously	Alternative residual current (AC) Pulsed DC residual current	Type A is a protection class capable of detecting both pure sinusoidal alternating currents and single-phase, rectified pulsed direct current leakages caused by electronic devices. ➢ LED drivers and dimmers ➢ Escalators ➢ Elevators ➢ Regulators ➢ Induction furnaces
		SLM	10kA	Selective Type	Alternative residual current (AC) Pulsed DC residual current	
	A+6mA DC TYPE	SNM	10kA	Instantaneously	Alternative residual current (AC) Pulsed and non-pulsed DC Current	Type A+6mA DC is a hybrid protection class with a special sensing layer added on top of Type A protection. This type is used to detect low-level pure DC leaks that may occur between the battery and the charging unit while the vehicle is charging. It safely interrupts the circuit by detecting DC leaks exceeding 6mA in the system. ➢ Electric vehicle charging stations
	A-SI TYPE	SPM	10kA	Instantaneously	Alternative residual current (AC) Pulsed DC residual current	This is an advanced version that incorporates all the features of type A. It has special filtering and delay circuits to prevent erroneous (unnecessary) tripping, which is frequently encountered in environments with a high concentration of electronic devices. This prevents unnecessary tripping in facilities with harmonics and sudden voltage fluctuations, ensuring operational continuity. ➢ All areas where type A is used ➢ Facilities with high harmonic pollution ➢ Areas with sudden voltage fluctuations and where unnecessary tripping is undesirable
	F TYPE	SJM	10kA	Instantaneously	Alternative residual current (AC) Pulsed DC residual current High frequencies up to 1 kHz	F Type is a protection class capable of detecting high frequency fault currents up to 1 kHz and is specifically designed for single-phase inverter technology devices (white goods, air conditioners, heat pumps, etc.). In addition to covering all the features of A Type, it prevents faulty tripping by exhibiting high immunity to sudden current surges during motor startup. ➢ Modern white goods and air conditioners with inverter technology ➢ Escalators ➢ Elevators ➢ Heat pumps and HVAC systems ➢ Single-phase appliances with speed control
	B TYPE	SKM	10kA	Instantaneously	Alternative residual current (AC) Pulsed and non-pulsed DC Current High frequency alternative current	Type B is the most advanced type, providing the most comprehensive protection, avoiding unnecessary tripping in high-frequency systems, and offering full protection against fault currents across the widest spectrum. ➢ AC/DC motor drives ➢ Photovoltaic installations ➢ UPS ➢ Frequency converters ➢ Three-phase motor drives

Residual Current Circuit Breakers - Technical Specification

			SHM			SGM		SDM		SFM		
Number of poles			2		4	2	4	2	4	2		4
Rated current	In	A	16, 25	25, 32, 40, 50, 63, 80, 100	25, 32, 40, 50, 63, 80, 100	25, 32,40, 63, 80, 100, 125		25, 32, 40, 63, 80		25, 40, 63	25, 32, 40, 63, 80, 100	25, 32, 40, 63, 80, 100
Rated residual current	IΔ	mA	10	30, 100, 300	30, 100, 300	30, 100, 300		300		30	100, 300	30, 100, 300
Rated frequency		Hz	50-60			50-60		50-60		50-60		
Type of residual current			AC			AC		AC		A		
Tripping unit			Electro-mechanic			Electro-mechanic		Electro-mechanic		Electro-mechanic		
Tripping time			0.5 ... 1 x IΔn			0.5 ... 1 x IΔn		0.5 ... 1 x IΔn		0.11 ... 1.4 x IΔn		
Breaking time at residual current	IΔn	ms	< 50			< 50		130 < t < 500		< 50		
Operating characteristic			General			General		Delay Time Selectivity		General		
Rated operating voltage	Ue	(AC) V	240	240	415	240	415	240	415	240	240	415
Rated insulation voltage	Ui	V	660			660		660		660		
Rated impulse withstand voltage	Uimp	kV	6			6		6		6		
Rated short circuit withstand current with fuse	Inc/IΔc	kA	6			10		6		10		
Electrical life (No. operation)	operation	(230V)	6.000			6.000		6.000		6.000		
Mechanical life (No. operation)	operation		20.000			20.000		20.000		20.000		
Degree of protection (after assembly)			IP 20 (IP 40)			IP 20 (IP 40)		IP 20 (IP 40)		IP 20 (IP 40)		
Ambient operating temperature		°C	-25 ... +60			-25 ... +60		-25 ... +60		-25 ... +60		
Storage temperature		°C	-40 ... +70			-40 ... +70		-40 ... +70		-40 ... +70		
Relative humidity		%	95			95		95		95		
Dimensions	Width	mm	35	35	70	35	70	35	70	35		70
	Length	mm	80			80		80		80		80
Assembly type (EN 60715)			35mm DIN Rail			35mm DIN Rail		35mm DIN Rail		35mm DIN Rail		
Min.. Max. Connection section		mm^2	4 - 35			4 - 50		4 - 35		4 - 35		

			SLM		SNM		SPM		SJM		SKM	
Number of poles			2	4	2	4	2	4	2	4	2	4
Rated current	In	A	25, 40, 63, 80, 100		25, 40, 63		25, 40, 63, 80, 100		25, 40, 63, 80, 100		25, 40, 63, 80, 100	
Rated residual current	IΔ	mA	300		30 mA AC - 6 mA DC		30, 300		30, 300		30, 100, 300	
Rated frequency		Hz	50-60		50-60		50-60		50-60		50-60	
Type of residual current			A		B		A-SI		F		B	
Tripping unit			Electro-mechanic		Electro-mechanic		Electro-mechanic		Electro-mechanic		Electro-mechanic	
Tripping time			0.5 ... 1 x IΔn		0.5 ... 1 x IΔn		0.5 ... 1 x IΔn		0.5 ... 1 x IΔn		0.5 ... 1 x IΔn	
Breaking time at residual current	IΔn	ms	130 < t < 500		< 50		< 50		< 50		< 50	
Operating characteristic			Delay Time Selectivity		General		General		General		General	
Rated operating voltage	Ue	(AC) V	230	415	230	415	230	415	230	415	230	415
Rated insulation voltage	Ui	V	660		660		660		660		660	
Rated impulse withstand voltage	Uimp	kV	6		6		6		6		6	
Rated short circuit withstand current with fuse	Inc/IΔc	kA	10		10		10		10		10	
Electrical life (No. operation)	operation	(230V)	6.000		2.000		2.000		2.000		1.000	
Mechanical life (No. operation)	operation		20.000		3.000		3.000		3.000		2.000	
Degree of protection (after assembly)			IP 20 (IP 40)		IP 20 (IP 40)		IP 20 (IP 40)		IP 20 (IP 40)		IP 20 (IP 40)	
Ambient operating temperature		°C	-25 ... +60		-25 ... +40		-25 ... +40		-25 ... +40		-25 ... +40	
Storage temperature		°C	-40 ... +70		-25 ... +70		-25 ... +70		-25 ... +70		-25 ... +70	
Relative humidity		%	95		95		95		95		95	
Dimensions	Width	mm	35	70	53,5	71,5	53,5	71,5	53,5	71,5	53,5	71,5
	Length	mm	80		81,5		81,5		81,5		81,5	
Assembly type (EN 60715)			35mm DIN Rail		35mm DIN Rail		35mm DIN Rail		35mm DIN Rail		35mm DIN Rail	
Min.. Max. Connection section		mm^2	4 - 35		4 - 35		4 - 35		4 - 35		4 - 35	

Residual Current Circuit Breakers (AC Type) 6 kA (Double Indicator)

Type Code	Rated Current In (A)	Number of poles	Protection	Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
NEW PRODUCT	16	2P	Shock Protection (Pool Usage)	10 mA	Instantaneously	100	SHM2016010
NEW PRODUCT	25					100	SHM2025010
SHM-2	25	2P	Shock Protection	30 mA	Instantaneously	100	SHM2025030
	32					100	SHM2032030
	40					100	SHM2040030
	50					100	SHM2050030
	63					100	SHM2063030
	80					100	SHM2080030
	100					100	SHM2100030
	25	2P	Fire Protection	100 mA	Instantaneously	100	SHM2025100
	32					100	SHM2032100
	40					100	SHM2040100
	50					100	SHM2050100
	63					100	SHM2063100
	80					100	SHM2080100
	100					100	SHM2100100
	25	2P	Fire Protection	300 mA	Instantaneously	100	SHM2025300
	32					100	SHM2032300
	40					100	SHM2040300
	50					100	SHM2050300
	63					100	SHM2063300
	80					100	SHM2080300
	100					100	SHM2100300
SHM-4	25	4P	Shock Protection	30 mA	Instantaneously	50	SHM4025030
	32					50	SHM4032030
	40					50	SHM4040030
	50					50	SHM4050030
	63					50	SHM4063030
	80					50	SHM4080030
	100					50	SHM4100030
	25	4P	Fire Protection	100 mA	Instantaneously	50	SHM4025100
	32					50	SHM4032100
	40					50	SHM4040100
	50					50	SHM4050100
	63					50	SHM4063100
	80					50	SHM4080100
	100					50	SHM4100100
	25	4P	Fire Protection	300 mA	Instantaneously	50	SHM4025300
	32					50	SHM4032300
	40					50	SHM4040300
	50					50	SHM4050300
	63					50	SHM4063300
	80					50	SHM4080300
	100					50	SHM4100300
SDM-2 (Selective Type)	25	2P	Fire Protection (Selectivity Option)	300 mA	Min. 130 ms	100	SDM2025300
	40					100	SDM2040300
	63					100	SDM2063300
	80					100	SDM2080300
	100					100	SDM2100300
SDM-4 (Selective Type)	25	4P	Fire Protection (Selectivity Option)	300 mA	Min. 130 ms	50	SDM4025300
	40					50	SDM4040300
	63					50	SDM4063300
	80					50	SDM4080300
	100					50	SDM4100300

Residual Current Circuit Breakers (AC Type) 10 kA (Double Indicator)



Type Code	Rated Current In (A)	Number of poles	Protection	Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SGM-2	25	2P	Shock Protection	30 mA	Instantaneously	100	SGM2025030
	32					100	SGM2032030
	40					100	SGM2040030
	63					100	SGM2063030
	80					100	SGM2080030
	100					100	SGM2100030
	125					100	SGM2125030
	25	2P	Fire Protection	100 mA	Instantaneously	100	SGM2025100
	32					100	SGM2032100
	40					100	SGM2040100
	63					100	SGM2063100
	80					100	SGM2080100
	100					100	SGM2100100
	125					100	SGM2125100
	25	2P	Fire Protection	300 mA	Instantaneously	100	SGM2025300
	32					100	SGM2032300
	40					100	SGM2040300
	63					100	SGM2063300
	80					100	SGM2080300
	100					100	SGM2100300
	125					100	SGM2125300



SGM-4	25	4P	Shock Protection	30 mA	Instantaneously	50	SGM4025030
	32					50	SGM4032030
	40					50	SGM4040030
	63					50	SGM4063030
	80					50	SGM4080030
	100					50	SGM4100030
	125					50	SGM4125030
	25	4P	Fire Protection	100 mA	Instantaneously	50	SGM4025100
	32					50	SGM4032100
	40					50	SGM4040100
	63					50	SGM4063100
	80					50	SGM4080100
	100					50	SGM4100100
	125					40	SGM4125100
	25	4P	Fire Protection	300 mA	Instantaneously	50	SGM4025300
	32					50	SGM4032300
	40					50	SGM4040300
	63					50	SGM4063300
	80					50	SGM4080300
	100					50	SGM4100300
	125					40	SGM4125300

Residual Current Circuit Breakers (A Type) 10 kA (Double Indicator)

	Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
	SFM-2	25	2P	Shock Protection	30 mA	Instantaneously	100	SFM2025030
		40					100	SFM2040030
		63					100	SFM2063030
		25	2P	Fire and Equipment Protection	100 mA	Instantaneously	100	SFM2025100
		40					100	SFM2040100
		63					100	SFM2063100
		80					100	SFM2080100
		100					100	SFM2100100
		25	2P	Fire and Equipment Protection	300 mA	Instantaneously	100	SFM2025300
		40					100	SFM2040300
		63					100	SFM2063300
		80					100	SFM2080300
		100					100	SFM2100300
	SFM-4	25	4P	Shock Protection	30 mA	Instantaneously	50	SFM4025030
		40					50	SFM4040030
		63					50	SFM4063030
		80					50	SFM4080030
		100					50	SFM4100030
		25	4P	Fire and Equipment Protection	100 mA	Instantaneously	50	SFM4025100
		40					50	SFM4040100
		63					50	SFM4063100
		80					50	SFM4080100
		100					50	SFM4100100
		25	4P	Fire and Equipment Protection	300 mA	Instantaneously	50	SFM4025300
		40					50	SFM4040300
		63					50	SFM4063300
		80					50	SFM4080300
		100					50	SFM4100300
	SLM-2 (Selective Type)	25	2P	Fire and Equipment Protection (Selectivity Option)	300 mA	Min. 130 ms	100	SLM2025300
		40					100	SLM2040300
		63					100	SLM2063300
		80					100	SLM2080300
		100					100	SLM2100300
	SLM-4 (Selective Type)	25	4P	Fire and Equipment Protection (Selectivity Option)	300 mA	Min. 130 ms	50	SLM4025300
		40					50	SLM4040300
		63					50	SLM4063300
		80					50	SLM4080300
		100					50	SLM4100300

Note: A Type RCB's are used to provide protection against residual currents of electronic devices including UPS, Power Supplies, Elevators, Thyristor and Diode

Residual Current Circuit Breakers (A-SI Type) 10 kA (Double Indicator)

New Product!



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SPM-2	25	2P	Shock Protection	30mA	Instantaneously	100	SPM2025030
	40					100	SPM2040030
	63					100	SPM2063030
	80					100	SPM2080030
	100					100	SPM2100030
	25		Fire and Equipment Protection	300mA	Instantaneously	100	SPM2025300
	40					100	SPM2040300
	63					100	SPM2063300
	80					100	SPM2080300
	100					100	SPM2100300



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SPM-4	25	4P	Shock Protection	30mA	Instantaneously	50	SPM4025030
	40					50	SPM4040030
	63					50	SPM4063030
	80					50	SPM4080030
	100					50	SPM4100030
	25		Fire and Equipment Protection	300mA	Instantaneously	50	SPM4025300
	40					50	SPM4040300
	63					50	SPM4063300
	80					50	SPM4080300
	100					50	SPM4100300

Residual Current Circuit Breakers (F Type) 10 kA (Double Indicator)

New Product!



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SJM-2	25	2P	Shock Protection	30mA	Instantaneously	100	SJM2025030
	40					100	SJM2040030
	63					100	SJM2063030
	80					100	SJM2080030
	100					100	SJM2100030
	25		Fire and Equipment Protection	300mA	Instantaneously	100	SJM2025300
	40					100	SJM2040300
	63					100	SJM2063300
	80					100	SJM2080300
	100					100	SJM2100300



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SJM-4	25	4P	Shock Protection	30mA	Instantaneously	50	SJM4025030
	40					50	SJM4040030
	63					50	SJM4063030
	80					50	SJM4080030
	100					50	SJM4100030
	25		Fire and Equipment Protection	300mA	Instantaneously	50	SJM4025300
	40					50	SJM4040300
	63					50	SJM4063300
	80					50	SJM4080300
	100					50	SJM4100300

Residual Current Circuit Breakers (B Type) 10 kA



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SKM-2	25	2P	Shock Protection	30 mA	Instantaneously	100	SKM2025030
	40					100	SKM2040030
	63					100	SKM2063030
	80					100	SKM2080030
	100					100	SKM2100030
	25	2P	Fire and Equipment Protection	300 mA	Instantaneously	100	SKM2025100
	40					100	SKM2040100
	63					100	SKM2063100
	80					100	SKM2080100
	100					100	SKM2100100
	25	2P	Fire and Equipment Protection	300 mA	Instantaneously	100	SKM2025300
	40					100	SKM2040300
	63					100	SKM2063300
	80					100	SKM2080300
	100					100	SKM2100300



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SKM-4	25	4P	Shock Protection	30 mA	Instantaneously	50	SKM4025030
	40					50	SKM4040030
	63					50	SKM4063030
	80					50	SKM4080030
	100					50	SKM4100030
	25	4P	Fire and Equipment Protection	300 mA	Instantaneously	50	SKM4025100
	40					50	SKM4040100
	63					50	SKM4063100
	80					50	SKM4080100
	100					50	SKM4100100
	25	4P	Fire and Equipment Protection	300 mA	Instantaneously	50	SKM4025300
	40					50	SKM4040300
	63					50	SKM4063300
	80					50	SKM4080300
	100					50	SKM4100300

Residual Current Circuit Breakers (A+6 mA DC Type) 10 kA (For the protection of Electric Vehicle Charging Units)

New Product!

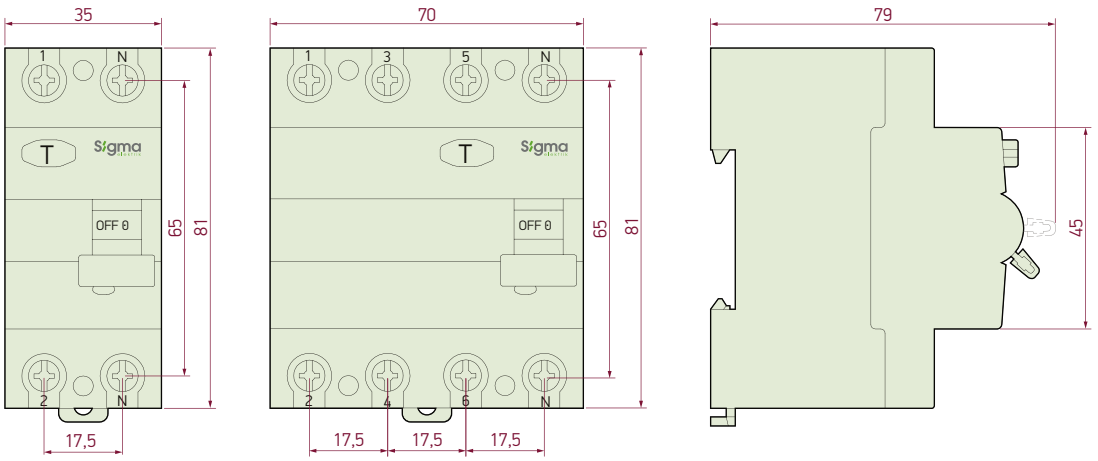


Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SNM-2	25	2P	Shock Protection	30 mA AC / 6 mA DC	Instantaneously	100	SNM2025030
	40					100	SNM2040030
	63					100	SNM2063030

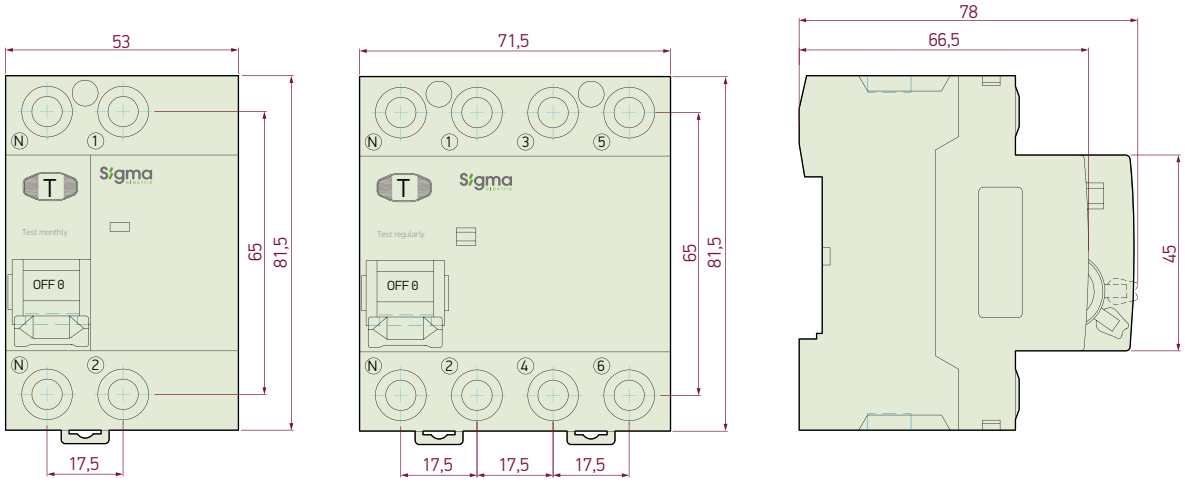


Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SNM-4	25	4P	Shock Protection	30 mA AC / 6 mA DC	Instantaneously	50	SNM4025030
	40					50	SNM4040030
	63					50	SNM4063030

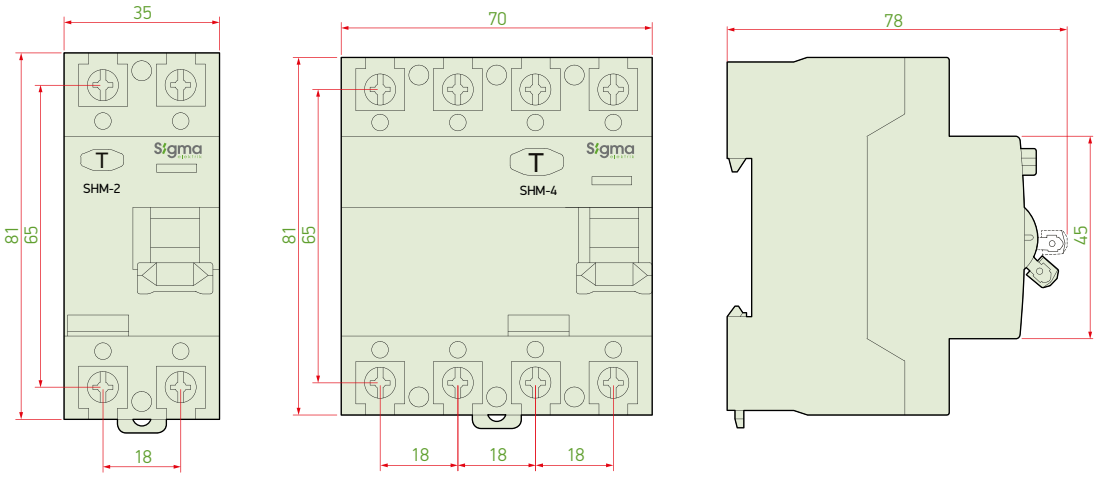
SFM-2 / SFM-4 / SGM-2 / SGM-4 / SHM-2 / SHM-4 / SLM-2 / SLM-4



SKM-2 - SKM-4 / SNM-2 - SNM-4



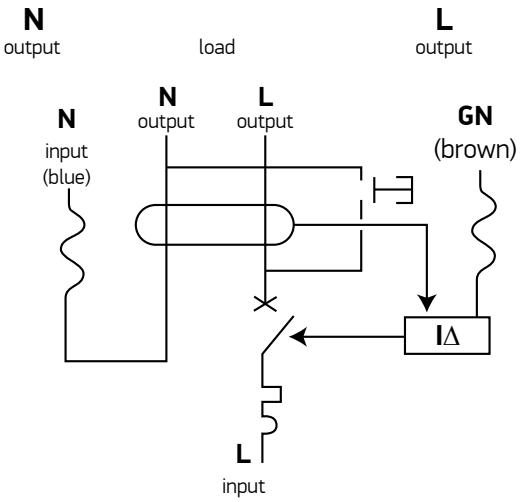
SHM2 - SHM4 / SDM2 - SDM4 / SPM2 - SPM4 / SJM2 - SJM4



RCBO - Technical Specifications

		SRM-2	SRM-4
Instantaneous tripping characteristic		B, C	B, C
Rated operating voltage	V AC	230	400
Rated frequency	Hz	50 ... 60	50 ... 60
Rated current (In)	A	6, 10, 16, 20, 32, 40	6, 10, 16, 20, 32, 40
Residual current (IΔn)	mA	30-300	30-300
Rated ultimate short-circuit breaking capacity	kA	6	6
Connection section	mm^2	1-10	1-10
Max. clamping torque	Nm	2	2
Degree of protection		IP20	IP20
Electrical life (No. operation)		6.000	6.000
Mechanical life (No. operation)		20.000	20.000
Storage ambient temperature	°C	-40 ... +70	-40 ... +70
Operating ambient temperature	°C	-25 ... +55	-25 ... +55
Relative humidity	%	95	95
CFC-silicone free		Yes	Yes

Circuit Diagram



Residual Current Circuit Breaker with Over Current Protection (B and C Protection Curve) (AC Type)



Type Code	Rated Current In (A)	Number of poles	Residual Current IΔn	Type of Residual Current	Breaking Capacity	Pcs in a Box	Order Code for B Type	Order Code for C Type
SRM-2	6	1P+N	30mA	AC	6 kA	100	SRM2006030B	SRM2006030
	10			AC	6 kA	100	SRM2010030B	SRM2010030
	16			AC	6 kA	100	SRM2016030B	SRM2016030
	20			AC	6 kA	100	SRM2020030B	SRM2020030
	25			AC	6 kA	100	SRM2025030B	SRM2025030
	32			AC	6 kA	100	SRM2032030B	SRM2032030
	40			AC	6 kA	100	SRM2040030B	SRM2040030
	6	1P+N	300mA	AC	6 kA	100	SRM2006300B	SRM2006300
	10			AC	6 kA	100	SRM2010300B	SRM2010300
	16			AC	6 kA	100	SRM2016300B	SRM2016300
	20			AC	6 kA	100	SRM2020300B	SRM2020300
	25			AC	6 kA	100	SRM2025300B	SRM2025300
	32			AC	6 kA	100	SRM2032300B	SRM2032300
	40			AC	6 kA	100	SRM2040300B	SRM2040300

New Product!



Type Code	Rated Current In (A)	Number of poles	Residual Current IΔn	Type of Residual Current	Breaking Capacity	Pcs in a Box	Order Code for B Type	Order Code for C Type
SRM-4	6	3P+N	30mA	AC	6 kA	50	SRM4006030B	SRM4006030
	10			AC	6 kA	50	SRM4010030B	SRM4010030
	16			AC	6 kA	50	SRM4016030B	SRM4016030
	20			AC	6 kA	50	SRM4020030B	SRM4020030
	25			AC	6 kA	50	SRM4025030B	SRM4025030
	32			AC	6 kA	50	SRM4032030B	SRM4032030
	40			AC	6 kA	50	SRM4040030B	SRM4040030
	6	3P+N	300mA	AC	6 kA	50	SRM4006300B	SRM4006300
	10			AC	6 kA	50	SRM4010300B	SRM4010300
	16			AC	6 kA	50	SRM4016300B	SRM4016300
	20			AC	6 kA	50	SRM4020300B	SRM4020300
	25			AC	6 kA	50	SRM4025300B	SRM4025300
	32			AC	6 kA	50	SRM4032300B	SRM4032300
	40			AC	6 kA	50	SRM4040300B	SRM4040300

Residual Current Circuit Breaker with Over Current Protection (B and C Protection Curve) (A Type)

New Product!



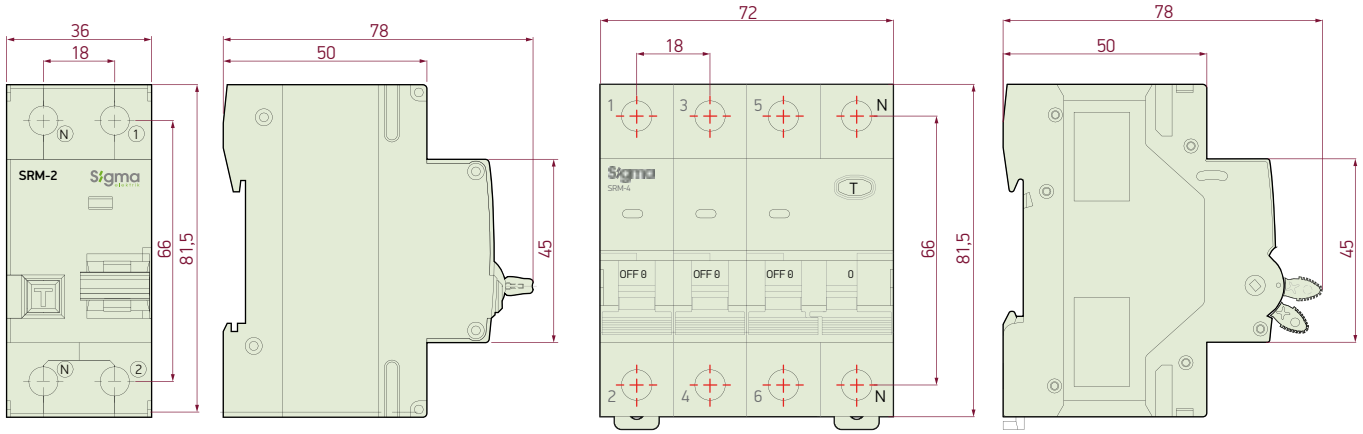
Type Code	Rated Current In	Number of poles	Residual Current IΔn	Type of Residual Current	Breaking Capacity	Pcs in a Box	Order Code for B Type	Order Code for C Type
SRM-2	6	1P+N	30mA	A	6 kA	100	SRMA2006030B	SRMA2006030
	10			A	6 kA	100	SRMA2010030B	SRMA2010030
	16			A	6 kA	100	SRMA2016030B	SRMA2016030
	20			A	6 kA	100	SRMA2020030B	SRMA2020030
	25			A	6 kA	100	SRMA2025030B	SRMA2025030
	32			A	6 kA	100	SRMA2032030B	SRMA2032030
	40			A	6 kA	100	SRMA2040030B	SRMA2040030
	6	1P+N	300mA	A	6 kA	100	SRMA2006300B	SRMA2006300
	10			A	6 kA	100	SRMA2010300B	SRMA2010300
	16			A	6 kA	100	SRMA2016300B	SRMA2016300
	20			A	6 kA	100	SRMA2020300B	SRMA2020300
	25			A	6 kA	100	SRMA2025300B	SRMA2025300
	32			A	6 kA	100	SRMA2032300B	SRMA2032300
	40			A	6 kA	100	SRMA2040300B	SRMA2040300

New Product!



Type Code	Rated Current In	Number of poles	Residual Current IΔn	Type of Residual Current	Breaking Capacity	Pcs in a Box	Order Code for B Type	Order Code for C Type
SRM-4	6	3P+N	30mA	A	6 kA	100	SRMA4006030B	SRMA4006030
	10			A	6 kA	100	SRMA4010030B	SRMA4010030
	16			A	6 kA	100	SRMA4016030B	SRMA4016030
	20			A	6 kA	100	SRMA4020030B	SRMA4020030
	25			A	6 kA	100	SRMA4025030B	SRMA4025030
	32			A	6 kA	100	SRMA4032030B	SRMA4032030
	40			A	6 kA	100	SRMA4040030B	SRMA4040030
	6		300mA	A	6 kA	100	SRMA4006300B	SRMA4006300
	10			A	6 kA	100	SRMA4010300B	SRMA4010300
	16			A	6 kA	100	SRMA4016300B	SRMA4016300
	20			A	6 kA	100	SRMA4020300B	SRMA4020300
	25			A	6 kA	100	SRMA4025300B	SRMA4025300
	32			A	6 kA	100	SRMA4032300B	SRMA4032300
	40			A	6 kA	100	SRMA4040300B	SRMA4040300

SRM-2	SRM-4



Auto Reclosing Device for RCCB



Type Code	Rated Voltage (V)	Function	Pcs in a Box	Compatible Types	Order Code
SCRC-03	230	Reclose time periods: 1st: 10s, 2nd: 60s, 3th: 300s, 4th: locked	100	SHM-2, SHM-4 SGM-2, SGM-4 SFM-2, SFM-4 SPM-2, SPM-4 SJM-2, SJM-4	SCRC03

Residual Current Circuit Breakers with Auto Reclosing Device (AC Type) 6 kA

New Product!



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn	Operating characteristic	Pcs in a Box	Order Code
SHM-2	25	2P	Shock Protection	30mA	Instantaneously	100	SHM2025030RC
	40					100	SHM2040030RC
	63					100	SHM2063030RC
	25		Fire Protection	300mA	Instantaneously	100	SHM2025300RC
	40					100	SHM2040300RC
	63					100	SHM2063300RC



SHM-4	25	4P	Shock Protection	30mA	Instantaneously	50	SHM4025030RC
	40					50	SHM4040030RC
	63					50	SHM4063030RC
	25		Fire Protection	300mA	Instantaneously	50	SHM4025300RC
	40					50	SHM4040300RC
	63					50	SHM4063300RC

Residual Current Circuit Breakers Test Instrument



	Residual Current Circuit Breakers Test Instrument Characteristics	Order Code
Residual current test levels	15 - 30 - 50-100 - 150 -300 mA - adjustable:	SCT-100
Trip time measurement	Trip time measurement on the basis of ms at 15 - 30 - 50-100 - 150 -300 mA	
Max. Signal application period for the test	1000 ms	
Phase measurement	It is possible to see on the screen with PWR Led light whether there is energy in the socket to be controlled	
Product operating voltage	230V AC	
Screen	2x8 LCD screen	

Sigma Auto Recloser (SCRC03)

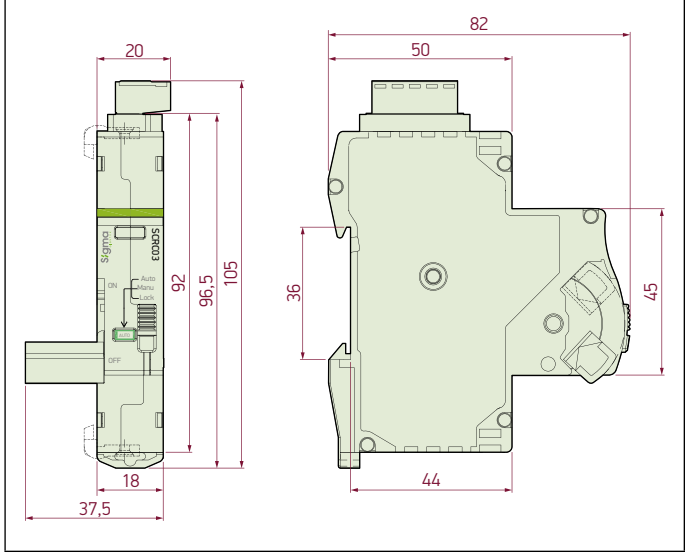
The recloser is a device with an innovative and technological structure that ensures auto reclosing of the residual current circuit breaker in case of unwanted tripping. A residual current circuit breaker can often cause power outage due to temporary or permanent faults.

Technical Data

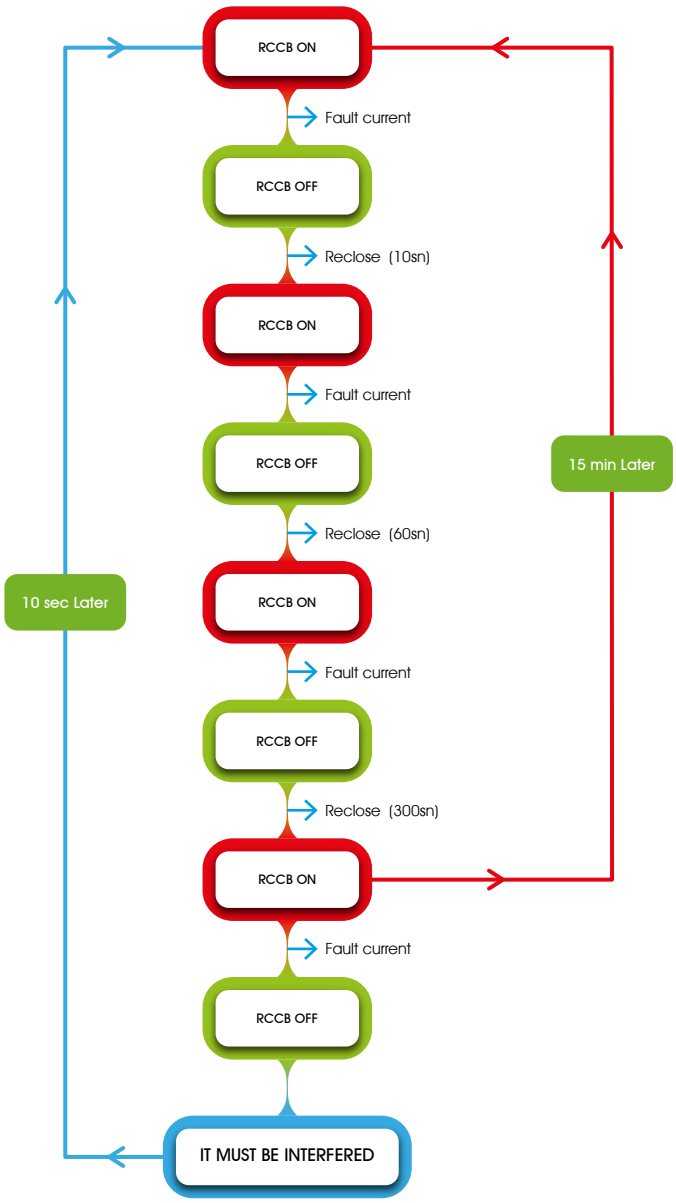
Power wiring	1P+N
Rated voltage	230V
Rated frequency	50/60Hz
Mechanical life	10.000 times
Trip time	Trips ≤ 0.2s Reclose ≤ 0.3s (time delay excluded)
Reclose time delay	1st: 10s, 2nd: 60s, 3th: 300s, 4th: locked
Suitable RCCB	SHM-2, SHM-4 SGM-2, SGM-4 SFM-2, SFM-4
Protection Grade	IP20
Operation / Storage Temperature	-25 ... +55 / -40 ... +70
Relative Humidity	95%
Auto/Manu/Lock Operation Mode	**Auto:** Auto reclose function in work condition, as well as both open & close contacts work well.
	Manu: Auto reclose function doesn't work, both open & close contacts doesn't work as well.
	Lock: the device won't reclose after locked with hole diameter is 4.5mm, even manually.
Displays	**Green & Long Bright:** Normal work
	Red & flash (1time/1s): Auto-reclosing
	Red & Long Bright: Locked, auto reclose function and both open & close contacts doesn't work
Release "LOCK"	After visit at site and solved the faulty problem, the electrician needs to switch "AUTO" to "MANU"and "AUTO"again;

Dimensions

SCRC-03



Function Description (Auto Mode)



Arc Fault Detection Relay (RCBO, Type A, C Curve)

New Product!



Type Code	Rated Current (A)	Short-Circuit Breaking Capacity	Residual Current Threshold Value (mA)	Order Code
SAFD-2	6	6 kA	30	SAFD2006030C
	10	6 kA	30	SAFD2010030C
	16	6 kA	30	SAFD2016030C
	20	6 kA	30	SAFD2020030C
	25	6 kA	30	SAFD2025030C
	32	6 kA	30	SAFD2032030C
	40	6 kA	30	SAFD2040030C
	50	6 kA	30	SAFD2050030C
	63	6 kA	30	SAFD2063030C

Note: Arc Fault Detection Device (AFDD) is used to prevent fires caused by electrical arcs resulting from cable insulation damage, weak connections or other mechanical faults. Sigma SAFD-2 also includes a built-in RCBO; meaning it combines arc protection, residual current protection, overcurrent protection and short-circuit protection in a single device, providing complete safety for users.

If the SAFD-2 is exposed to a harmless arc (such as those originating from a commutator motor), it does not trip and the circuit continues to operate normally. However, if it is exposed to a dangerous arc, device trips, disconnecting the circuit and ensuring protection.





MODULAR **PRODUCTS**

Modular products are products that combine monitoring (measurement), efficiency, functionality and comfort.

DIN Rail Type LED Signal Indicators and LED Signal Indicators

- Long service life, high brightness and low power loss opportunities
- Options with connection clamps or rail mounting for mounting on device covers, panels, control cabinets
- Single piece rail mounting or cabin front cover plate mounting option
- 5 color options: red, green, yellow, blue, white

Cylindrical (Cartridge) Fuses

- Series suitable for AC and DC loads,
- Options for fuses suitable for load classes; gG, aM, Ar
- Product variety from 1A to 100A

Cylindrical (Cartridge) Fuse Holders

- Product variety from 32A, 50A and 100A
- 1, 1P+N, 3, 4 pole options in cartridge slots

Modular DIN Rail Sockets

- Design resistant to high temperatures having thermoplastic body material
- IP20 protection degree
- 230V, 6A
- Easy mounting on DIN rail

Impulse Relays

- 16A and 32A
- 24V AC, 24V DC and 230V AC
- 1NO, 2NO, 1NO+1NC and 2NO+2NC
- 960°C heat resistant body material
- IP20 protection degree
- High electrical and mechanical life

Isolator Switches (without protection)

- 1, 2, 3 and 4 poles
- 40A and 125A rated current

DIN Rail Type Led Signal Indicators

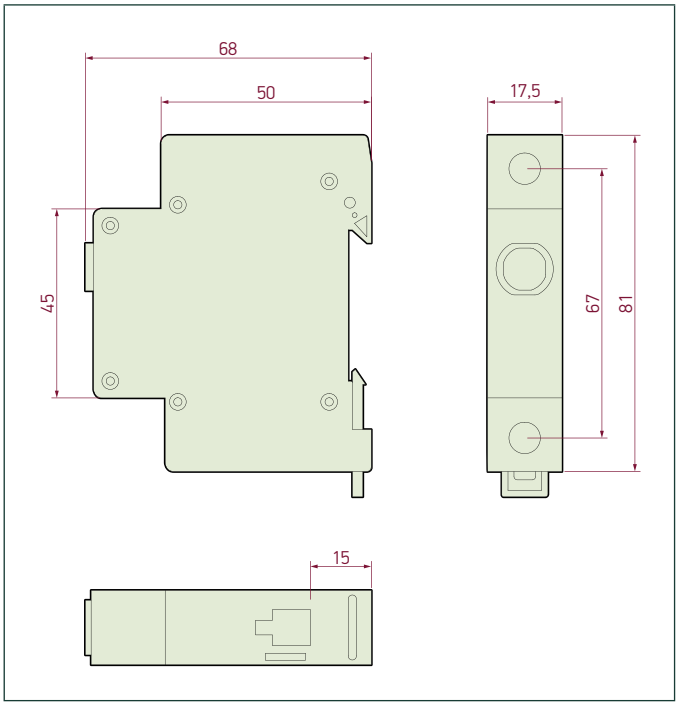


Colour	Rated Voltage (V)	Min. Order Quantity	Pcs in a Box	Order Code
Blue	220V AC	12	120	SSL-B220A
	24V AC	12	120	SSL-B024A
	24V DC	12	120	SSL-B024D
Red	220V AC	12	120	SSL-R220A
	24V AC	12	120	SSL-R024A
	24V DC	12	120	SSL-R024D
Green	220V AC	12	120	SSL-G220A
	24V AC	12	120	SSL-G024A
	24V DC	12	120	SSL-G024D
Yellow	220V AC	12	120	SSL-Y220A
	24V AC	12	120	SSL-Y024A
	24V DC	12	120	SSL-Y024D

Technical Specifications

			SSL
Standard			EN 60947-5-1
Rated current AC12	In	A	20
Lamp type			LED
Colors			Green, Red, Blue, Yellow
Rated operating voltage	Ue	V	230 (AC), 24 (AC), 24 (DC)
Rated insulation voltage	Ui	V	500
Electrical life (No. operation)		hour	> 30.000
Degree of protection			IP 20
Operating ambient temperature		°C	-30 ... +60
Storage ambient temperature		°C	-40 ... +70
Relative Humidity		%	95
Mounting type (EN 60715)			35mm DIN Rail
Connection section		mm^2	1-16
Max. clamping torque		Nm	3,5

Dimensions



Panel Type Led Signal Indicators



Type Code	Description	Rated Voltage	Dimensions	Colour	Pcs in a Box	Order Code
SL-22-22DS	Led Indicator	220V AC	22mm	Red	240	SL22-220DSR
	Led Indicator	220V AC	22mm	Green	240	SL22-220DSG
	Led Indicator	220V AC	22mm	Yellow	240	SL22-220DSY
	Led Indicator	220V AC	22mm	Blue	240	SL22-220DSB
	Led Indicator	220V AC	22mm	White	240	SL22-220DSW
	Led Indicator	24V AC/DC	22mm	Red	240	SL22-024DSR
	Led Indicator	24V AC/DC	22mm	Green	240	SL22-024DSG
	Led Indicator	24V AC/DC	22mm	Yellow	240	SL22-024DSY
	Led Indicator	24V AC/DC	22mm	Blue	240	SL22-024DSB
	Led Indicator	24V AC/DC	22mm	White	240	SL22-024DSW

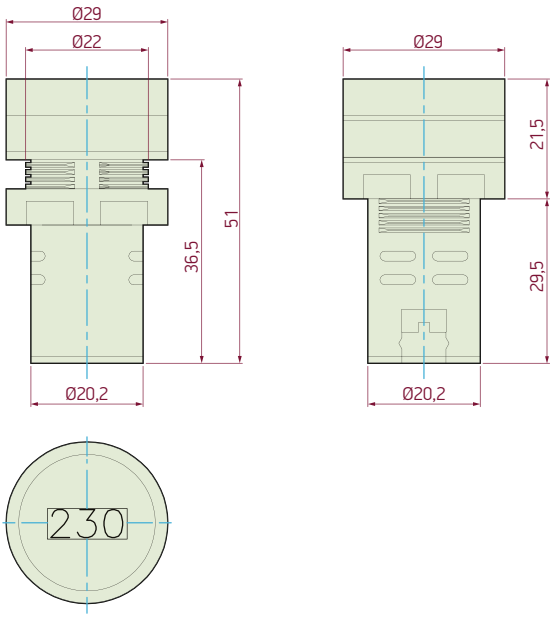


Type Code	Description	Rated Voltage	Dimensions (mm)	Colour	Pcs in a Box	Order Code
SL-22-22VM	Led Indicator with Voltmeter Function	50-500V AC	22mm	Red	240	SL22-22VMR
				Green	240	SL22-22VMG
				Yellow	240	SL22-22VMY
				Blue	240	SL22-22VMB
				White	240	SL22-22VMW
	Led Indicator with Voltmeter Function	5-60V DC	22mm	Red	240	SL22-22VMRD
				White	240	SL22-22VMWD
SL-22-22AM	Led Indicator with Ammeter Function	0-100A	22mm	Red	240	SL22-22AMR1
				White	240	SL22-22AMW1
		0-200A	22mm	Red	240	SL22-22AMR2
				White	240	SL22-22AMW2
SL-22-22VAM	Led Indicator with Voltmeter-Ammeter Functions	50-500V AC 0-100A AC	22mm	Red	240	SL22-22VAMR
				White	240	SL22-22VAMW
SL-22-22HM	Led Indicator with Frequency Meter Function	0-99 Hz	22mm	Red	240	SL22-22HMR
				White	240	SL22-22HMW
SL-22-22TM	Led Indicator with Temperature Function	-20 ...+ 199°C	22mm	Red	240	SL22-22TMR
				White	240	SL22-22TMW

Technical Specifications

		Led Indicators	Led Indicators with measurement functions (V-A-VA-Hz-°C)
Standard		IEC/EN60947-5-1	
Mounting diameter		22mm	
Device mounting		Fixing hole: Ø 22,5mm	
Source of light		Led	
Color		Red, Green, Yellow, Blue, White	Red, Green, Yellow, White
Rated operating voltage	V	220V AC, 24V AC DC	12-500V AC
Rated impulse voltage	kV	6 kV	
Electrical life (No. operation)	Hour	70.000 hour at nominal voltage and 25°C	
Degree of protection		IP20 (back side), IP40 (front side)	
Operating ambient temperature	°C	-25 ... 55°C	
Storage ambient temperature	°C	-40 ... 70°C	
Relative Humidity	%	95	
Connection terminal		Screw clamp terminals : <= 2 x 1,5mm² cable terminal	
Height	mm	29	
Width	mm	29	
Depth	mm	54	
Weight	Kg	0.018	
Overvoltage category		Class III	
Tightening torque	Nm.	0.8 ... 1.2	

Dimensions



Cylindrical (Cartridge) Fuses



Type	Rated Current (A)	Cartridge Diameter (Øxmm)	Min. Order Quantity	Pcs in a Box	Order Code
gG Type cylindrical fuses (General protection of cables and electrical systems against overload and short circuit).	1	10x38	10	2000	SFLG01
	2	10x38	10	2000	SFLG02
	4	10x38	10	2000	SFLG04
	6	10x38	10	2000	SFLG06
	10	10x38	10	2000	SFLG10
	16	10x38	10	2000	SFLG16
	20	10x38	10	2000	SFLG20
	25	10x38	10	2000	SFLG25
	32	10x38	10	2000	SFLG32
	40	14x51	10	2000	SFNG040
	50	14x51	10	2000	SFNG050
	63	22x58	10	2000	SFMG063
	80	22x58	10	2000	SFMG080
	100	22x58	10	2000	SFMG100



Type	Rated Current (A)	Cartridge Diameter (Øxmm)	Min. Order Quantity	Pcs in a Box	Order Code
aM Type cylindrical fuses (Protection of Motor systems against short circuits)	2	10x38	10	2000	SFLM02
	4	10x38	10	2000	SFLM04
	6	10x38	10	2000	SFLM06
	10	10x38	10	2000	SFLM10
	16	10x38	10	2000	SFLM16
	20	10x38	10	2000	SFLM20
	25	10x38	10	2000	SFLM25
	32	10x38	10	2000	SFLM32



Type	Rated Current (A)	Cartridge Diameter (Øxmm)	Min. Order Quantity	Pcs in a Box	Order Code
aR Type high speed fuses (Protection against short-circuit of semi-conductor and power systems ; UPS, soft starter, inverter, converter, AC/DC starters e.g.)	2	10x38	10	2000	SFLR02
	4	10x38	10	2000	SFLR04
	6	10x38	10	2000	SFLR06
	10	10x38	10	2000	SFLR10
	16	10x38	10	2000	SFLR16
	20	10x38	10	2000	SFLR20
	25	10x38	10	2000	SFLR25
	32	10x38	10	2000	SFLR32

Cylindrical (Cartridge) Fuse Holders



Type	Rated Current (A)	Number of poles	Cartridge Diameter (Øxmm)	Min. Order Quantity	Pcs in a Box	Order Code
SFH032	32	1	10x38	12	144	SFH132
	32	1P+N	10x38	6	72	SFH232
	32	3	10x38	4	48	SFH332
	32	3P+N	10x38	3	36	SFH432
SFH050	50	1	14x51	1	50	SFH1050
	50	1P+N	14x51	1	50	SFH2050
	50	3	14x51	1	50	SFH3050
SFH100	100	1	22x58	1	60	SFH1100
	100	1P+N	22x58	1	60	SFH2100
	100	3	22x58	1	60	SFH3100

Modular DIN Rail Socket



Specification	Min. Order Quantity	Pcs in a Box	Order Code
16A, 230V	5	50	SPP-16T

Isolator Switch (Without Protection)



Number of poles	Rated Current In (A)	Min. Order Quantity	Pcs in a Box	Order Code
1P	40	12	240	SYA1040
	63	12	240	SYA1063
	80	12	240	SYA1080
	100	12	240	SYA1100
	125	12	240	SYA1125
2P	40	6	120	SYA2040
	63	6	120	SYA2063
	80	6	120	SYA2080
	100	6	120	SYA2100
	125	6	120	SYA2125
3P	40	4	80	SYA3040
	63	4	80	SYA3063
	80	4	80	SYA3080
	100	4	80	SYA3100
	125	4	80	SYA3125
4P	40	3	60	SYA4040
	63	3	60	SYA4063
	80	3	60	SYA4080
	100	3	60	SYA4100
	125	3	60	SYA4125

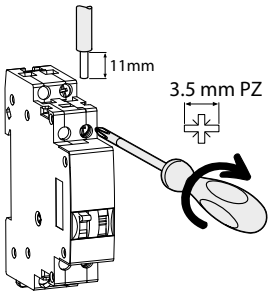
Impulse Relay

New Product!



Rated current (Ie)	Contact structure	Coil voltage	Min. order quantity	Pcs in a box	Order Code
16A	1NO	230V AC	12	120	SDA1610230AC
	2NO	230V AC	12	120	SDA1620230AC
	1NO+1NC	230V AC	12	120	SDA1611230AC
	2NO+2NC	230V AC	12	120	SDA1622230AC
16A	1NO	24V AC	12	120	SDA1610024AC
	2NO	24V AC	12	120	SDA1620024AC
	1NO+1NC	24V AC	12	120	SDA1611024AC
	2NO+2NC	24V AC	12	120	SDA1622024AC
16A	1NO	24V DC	12	120	SDA1610024DC
	2NO	24V DC	12	120	SDA1620024DC
	1NO+1NC	24V DC	12	120	SDA1611024DC
	2NO+2NC	24V DC	12	120	SDA1622024DC
32A	1NO	230V AC	12	120	SDA3210230AC

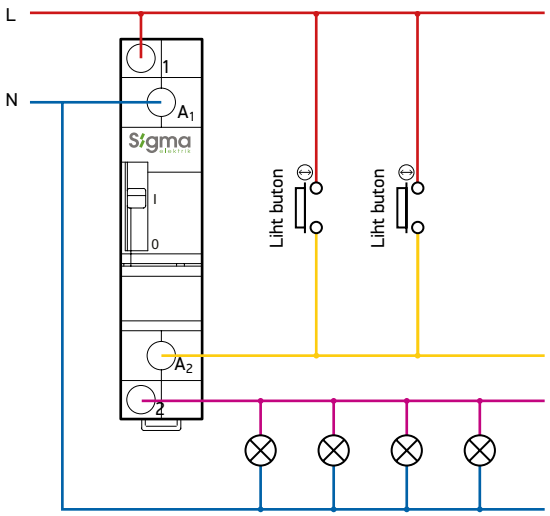
Impulse Relay Connection



Type	Rated Current	Circuit	Tightening torque	Copper cables	
				Rigid or ferrule	Flexible or ferrule
					
SDA-16	16A	Control	1N.m	0.5 ~ 4mm²	1 ~ 4mm²
		Control		1.5 ~ 4mm²	1.5 ~ 4mm²

Main Parameters

Control Circuit		
Dissipated power (during the impulse)		19VA
Illuminated PB control		Max. current 3mA (if > use an ATLz)
Operating threshold		Min. 85 % of Un
Duration of the control order		50ms to 1s (200 ms recommended)
Response time		50ms
Power Circuit		
Voltage rating (Ue)	1P, 2P	250V AC
Frequency		50/60 Hz
Maximum number of operations per minute		5
Maximum number of switching operation a day		100
Endurance		200.000 cycles AC21
		100.000 cycles AC22
High Voltage Category		IV
Insulation voltage (Ui)		440V AC
Pollution degree		III
Rated impulse withstand voltage (Uimp)		6kV
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular	IP40 (Insulation class II)
Operating temperature		-5 ... +60
Storage temperature		-40 ... +70
Tropicalization (IEC 60068.1)		Relative humidity 95, at 55°C

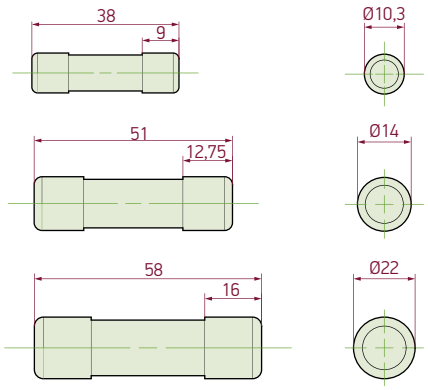


WARNING!

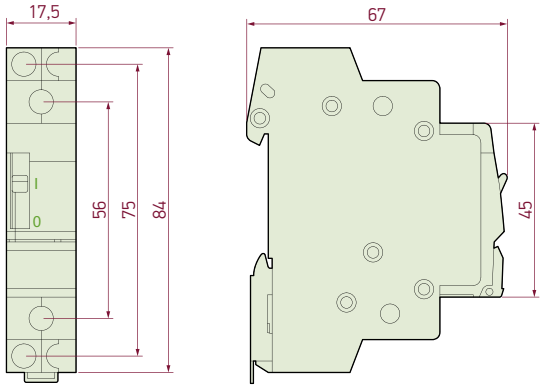
LIHT BUTTON must be used to switch the coil voltage.

Dimensions

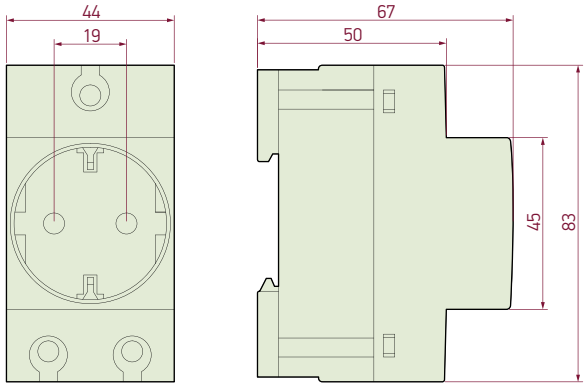
Cylindrical Fuses



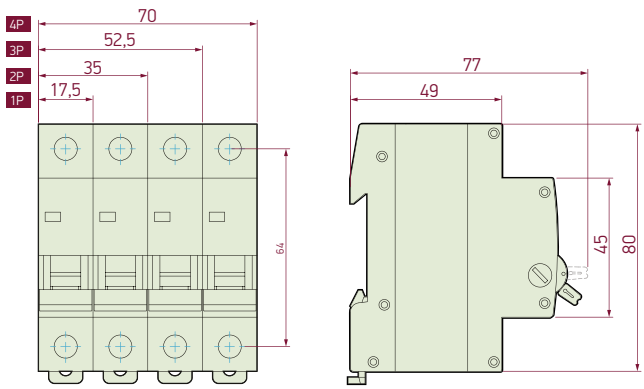
Impulse Relay



DIN Rail Type Socket for Panel Boards

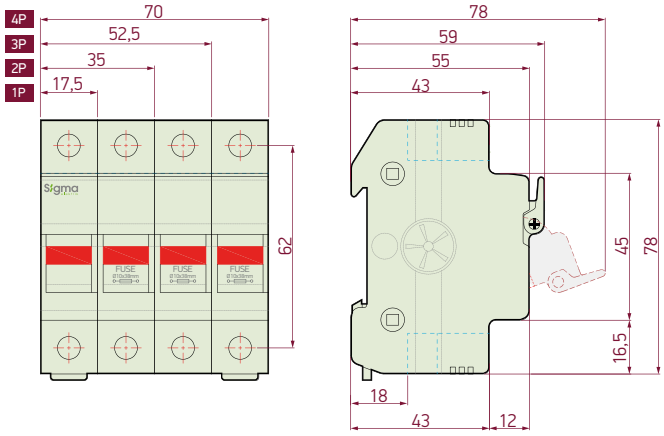


Isolator Switch

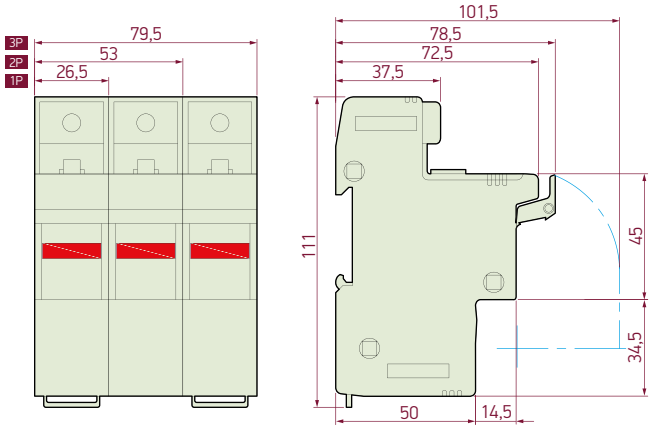


Cylindrical (cartridge) Fuse Holders

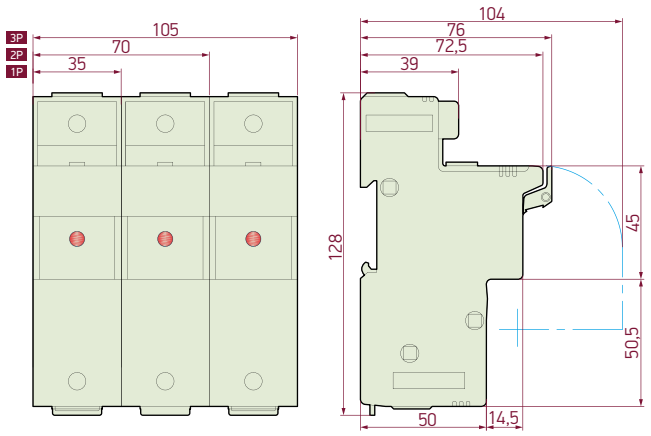
SFH032



SFH050



SFH0100



Single Phase Adjustable Current-Voltage Protection Relays

New Product!



Type	Overvoltage adjustment (V)	Low voltage setting (V AC)	Current setting (A)	Tripping time (sec)	Re-commissioning time setting (sec)	Order Code
SAVR-80	230-300	110-210	1-40	1-30	1-500	SAVR-80040
	230-300	110-210	1-63	1-30	1-500	SAVR-80063
	230-300	110-210	1-80	1-30	1-500	SAVR-80080

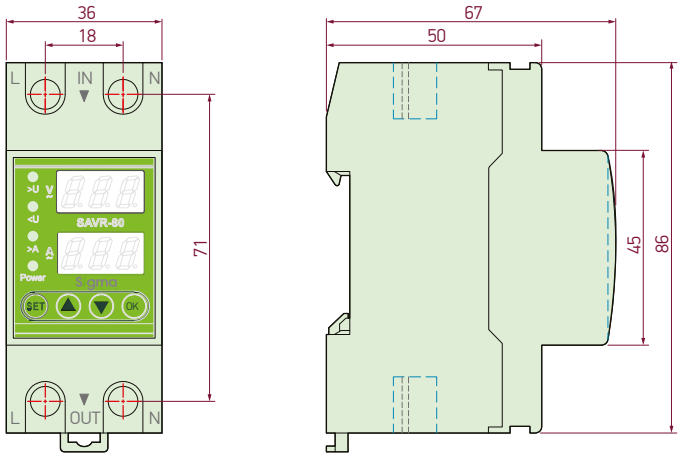
Three Phase Adjustable Current-Voltage Protection Relays

New Product!

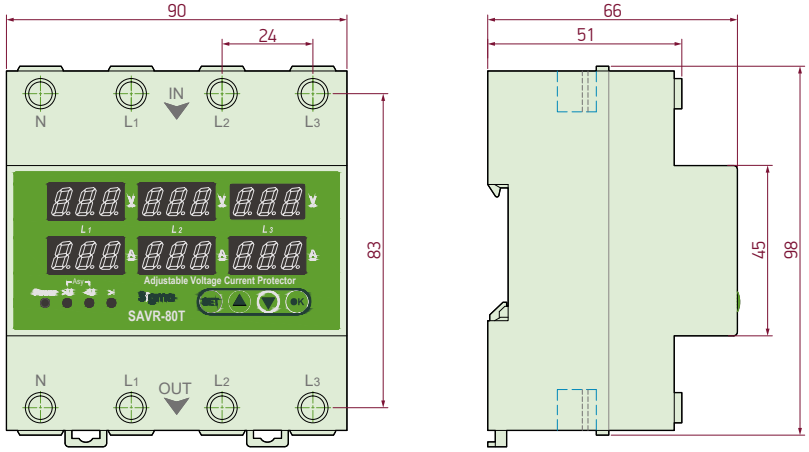


Function	Over-voltage protection (V AC)	Under-voltage protection (V AC)	Over-current protection (A)	Tripping time (sec)	Auto-recon-nect time (sec)	Neutral protection	Phase asymmetry protection	Phase sequence protection	Order Code
3-phase operating separate	230-300	110-210	1-63	0,1 - 30	1-500	✓	—	—	SAVR80063T1
	230-300	110-210	1-80	0,1 - 30	1-500	✓	—	—	SAVR80080T1
3-phase operating together	390-500	140-370	1-63	0,1 - 30	1-500	✓	✓	✓	SAVR80063T3
	390-500	140-370	1-80	0,1 - 30	1-500	✓	✓	✓	SAVR80080T3

SAVR-80



SAVR-80T1 / SAVR-80T3



Sigma elektrik

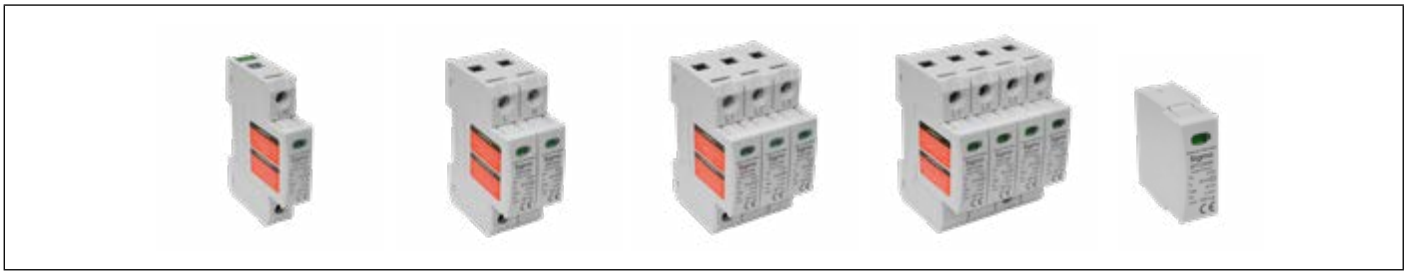


LV SURGE PROTECTION **DEVICES**

Surge arresters are protection equipments that discharge excessive voltage occurring in energy transmission lines to the ground. They act as open circuit when no pulse passes through it and provide isolation between active circuit elements and ground. When exposed to a voltage pulse, they increase their impedance within nanoseconds, act as closed circuit, and transmit the pulse current to the ground.

- Product diversity in B, C, D, B+C and B+C+D types
- 5kA, 40kA and 100kA short circuit breaking capacities
- 1, 2, 3 and 4 poles
- Possibility of remote monitoring with auxiliary contact function

LV Surge Protection Devices



Type	Description	Number of poles	Uc (V) AC	Iimp	Imax (kA) (8/20µs)	In (kA) (8/20µs)	Up (V)	PE grounding section*	Order Code
SP1-B100	Type 1 B Class (install before electricity meter)	**1P**	255	50 (10/350µs)	–	100	2,5	16mm²	**SP1-B100**
SP4-B100	Type 1 B Class (install before electricity meter)	**3P+N**	255	50 (10/350µs)	–	100	2,5	16mm²	**SP4-B100**
SP4-BC100	Type 1+Type 2 B+C Class (install before electricity meter)	**3P+N**	385	12,5 (10/350µs)	100	20	1,6	16mm²	**SP4-BC100**
SP1-C040	Type 2 C Class (install after electricity meter)	**1P**	275	–	40	20	1,4	4mm²	**SP1-C040**
SP2-C040	Type 2 C Class (install after electricity meter)	**1P+N**	275	–	40	20	1,4	4mm²	**SP2-C040**
SP3-C040	Type 2 C Class (install after electricity meter)	**3P**	275	–	40	20	1,4	4mm²	**SP3-C040**
SP4-C040	Type 2 C Class (install after electricity meter)	**3P+N**	275	–	40	20	1,4	4mm²	**SP4-C040**
SP1-D005	Type 3 D Class (install after electricity meter)	**1P**	275	–	5	3	1,6	4mm²	**SP1-D005**
SP1-C040K	Spare cartridge for C Class surge protection	**1P**	275	–	40	20	1,4	–	**SP1-C040K**
SP2-CD40	Type 2+Type 3 C+D Class (install after electricity meter)	**1P+N**	275		40	20	1,5		**SP2-CD40**
SP2-BCD50	Type 1+Type 2+Type 3 B+C+D Class	**1P+N**	275	12,5/25	50	20	1,5		**SP2-BCD50**
SP4-BCD50	Type 1+Type 2+Type 3 B+C+D Class	**3P+N**	275	12,5/25	50	20	1,5		**SP4-BCD50**
SLP12.5-950	Type 1+Type 2 B+C Class. 800V AC surge protection device for string inverter protection	**3P**	950	12,5	100	20	4	25mm²	**SLP12.5-950**
SP4-CD40	Type 2+Type 3 C+D Class (install after electricity meter)	**3P+N**	275		40	20	1,5		**SP4-CD40**

Note: The LV Surge Protection devices are offered with signal contact except B type.
Note: Connection cross-sections are shown as min.

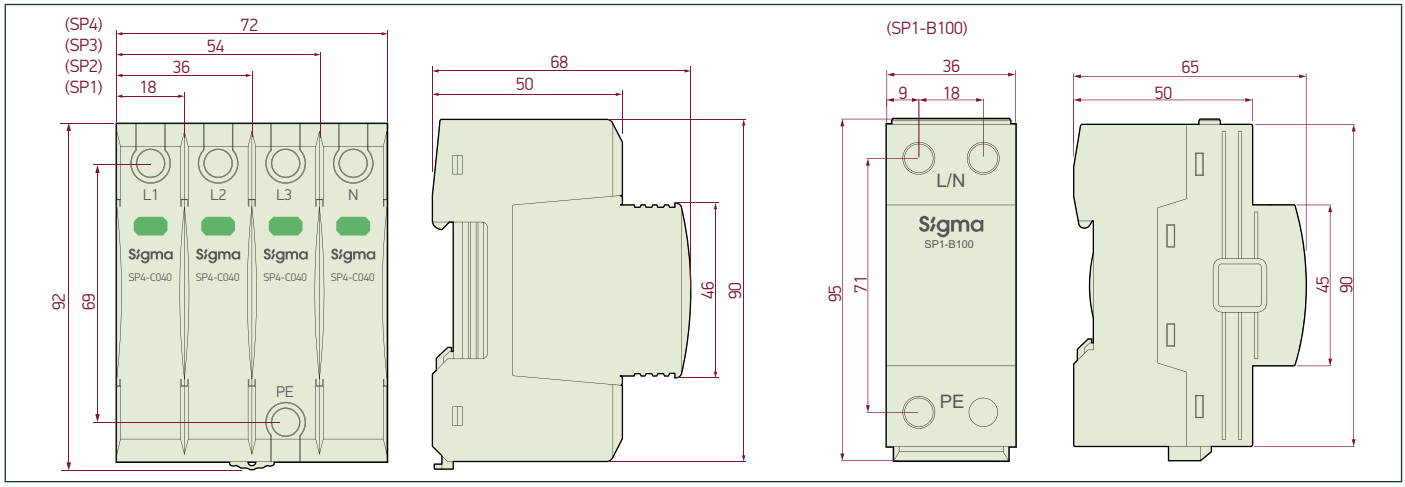
Selection of cable cross-section

Connection between the energy supply and the surge arrester: In post-meter input connections, the cable must have at least the same cross-section as the cable coming from the upper circuit. In pre-meter connections, phases and neutral should be 10mm² in the main panel and ground should be 16mm².

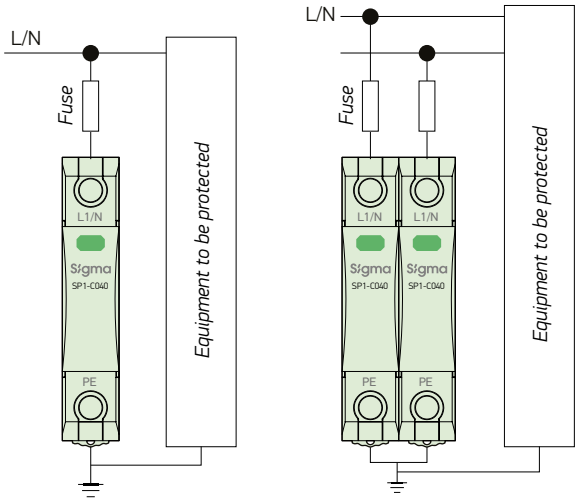
Surge arrester ground connection:

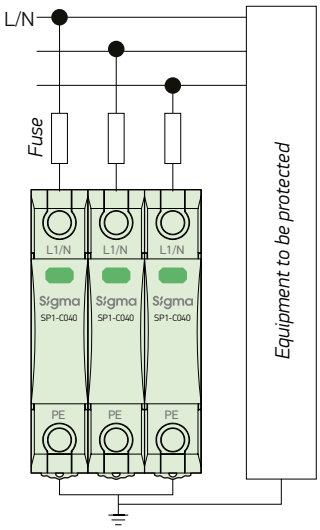
If there is no lightning rod, the minimum cross-section should be 4mm², and if there is a lightning rod, it should be minimum 10mm². However, it is recommended to choose a larger cross-section of 10-20mm². Standard terminal connection for single-core sections max. 35mm², max. in multi-core sections. 25mm² connection can be made.

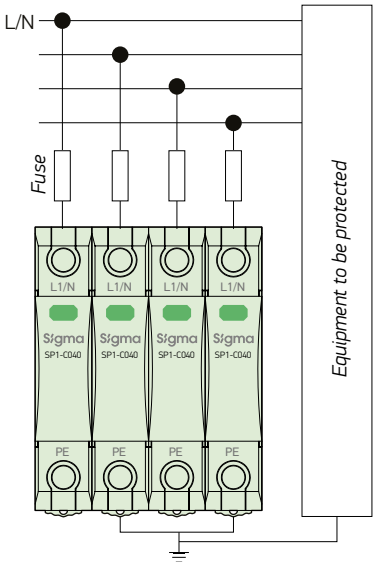
Dimensions



Wiring Diagram

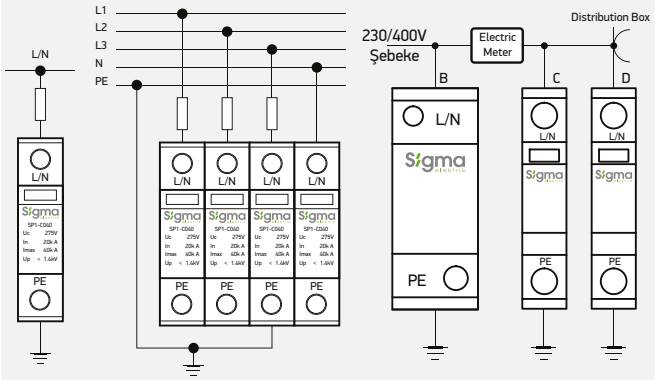






Wiring Diagram

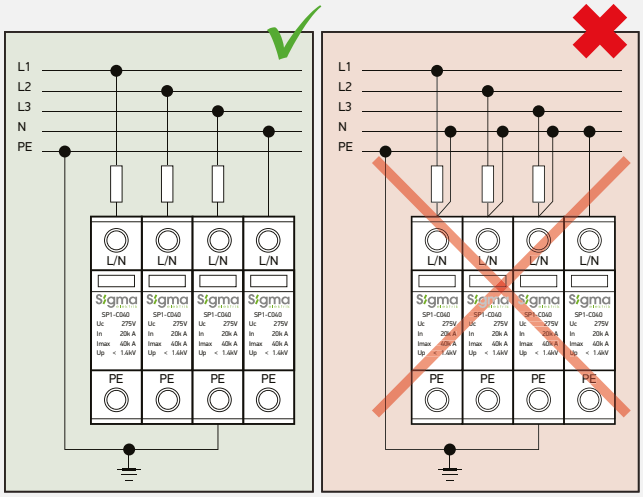
Monophase, Threephase line connections

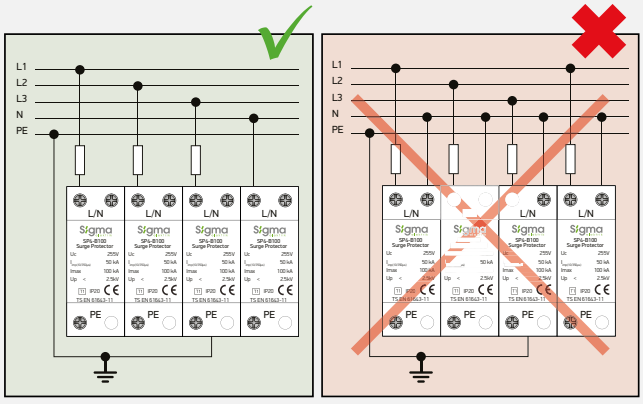


ATTENTION !!!

L/N EXPRESSION INDICATES THAT PHASE OR NEUTRAL CAN BE CONNECTED TO THE TERMINAL BLOCKS. SINCE THE TERMINAL BLOCKS HAVE SHORT CIRCUIT FROM THE INTERNAL SIDE, **ONLY PHASE** OR **ONLY NEUTRAL** CAN BE CONNECTED.

SEE THE FIGURES BELOW.





CAT6 Data Line Surge Protection Device

SP1-D003 Data and signal surge protective device is mainly used to protect such as Ethernet network, security camera, data communication, server equipment, working station (intranet).



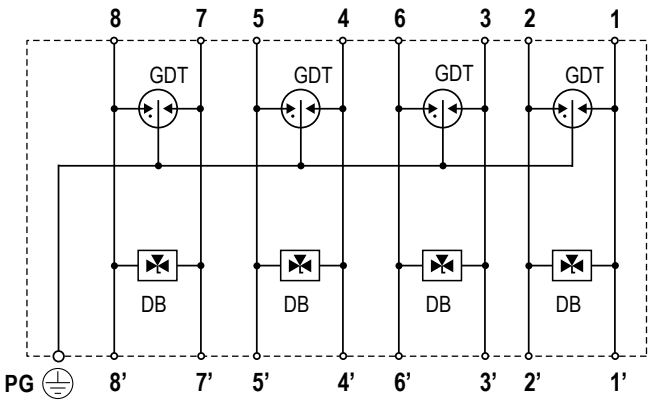
Type	Description	Number of poles	Uc (V) AC	Imax (kA)	In (kA)	Up (V)	Order Code
SP1-D003	Ethernet lines, IP Cameras, Data lines, Server equipment and systems, Intranet protection	1P	48V DC	10	3	≤100	SP1-D003

Technical Data

Electrical			
Number of Protected Pairs			4 Pairs (8 Conductors)
Nominal Operating Voltage (DC)		Un	48V
Maximum Continuous Operating Voltage (DC)	(Line-Line)	Uc	50V
	(Pair-Pair)		72V
Rated Load Current at 25°C		IL	1A
Nominal Discharge Current (8/20 µs)	(Line-Line)	In	150A
C2 Total Discharge Current (8/20 µs)	(Lines-Ground)	In	10kA
D1 Impulse Current (10/350 µs)		Iimp	1kA
Voltage Protection Level at In	(Line-Line)	Up	150V
	(Line-Ground)		550V
Response Time		tA	< 10 ns
Cut-off Frequency		fG	250 MHz

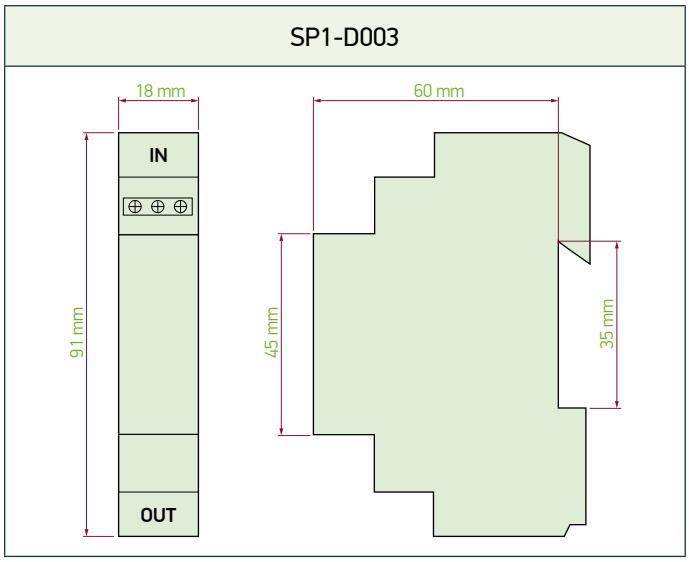
Mechanical	
Operating Temperature Range	-40°C ... +80°C [-40°F ... +176°F]
Relative Humidity	95%
Connection Type	Input/Output: RJ45 Sockets
Degree of Protection IEC/EN 60529	IP 20
Housing Material	Plastic
Mounting IEC/EN 60715	35mm DIN Rail
Place of installation	Indoor Installation

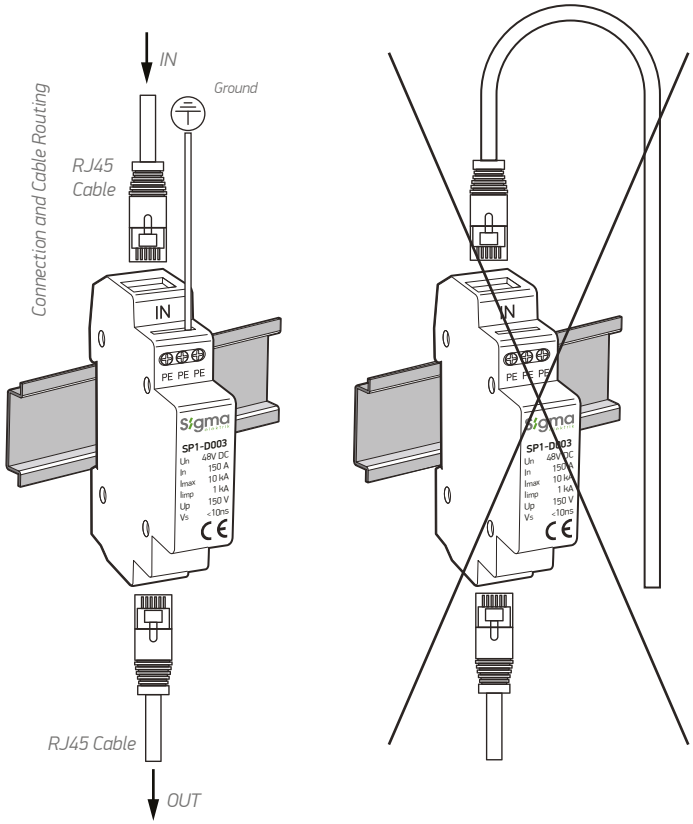
Internal Configuration



Diode block	DB
Gas discharge tube	GDT
Protective grounding	PG

Dimension





800V AC Surge Protection Device For String Inverter Protection

800V AC string inverter protection surge arrester is used to protect string inverters against overvoltages in solar energy systems.

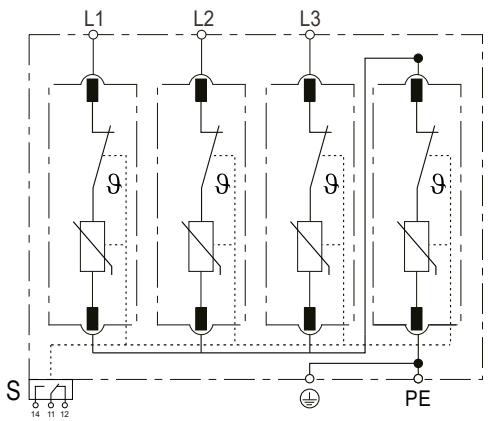


Type	Description	Number of poles	Uc (V) AC	Iimp	Imax (kA)	In (kA)	Up (kV)	PE grounding section*	Order Code
SLP12,5	Type 1+Type 2 B+C Class. 800V AC surge protection device for string inverter protection	**3P**	950	12,5	100	20 (8/20µs)	4	25mm²	**SLP12.5-950**

Technical Data

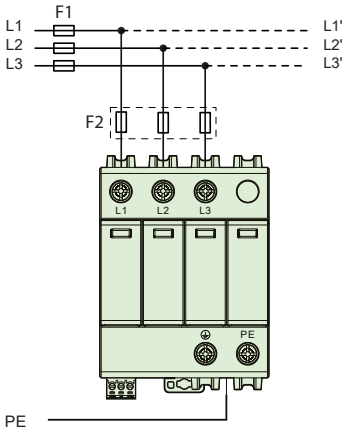
IEC Electrical		
Nominal AC Voltage (50/60Hz)	Uo / Un	800V
Maximum Continuous Operating Voltage (AC)	UC	950V
Nominal Discharge Current (8/20 µs)	In	20 kA
Maximum Discharge Current (8/20 µs)	Imax	100 kA
Impulse Discharge Current (10/350 µs)	Iimp	12.5 kA
Voltage Protection Level	Up	4000V
Residual Current at Uc	IPE	< 0, 5 mA
Response Time	tA	< 25 ns
Back-Up Fuse (max)		160A gL / gG
Short-Circuit Current Rating (AC)	ISCCR	25 kA
Number of Ports		1
Mechanical & Environmental		
Operating Temperature Range	T_a	-40°C ... +70°C [-40°F ... +158°F]
Permissible Operating Humidity	RH	5% ... 95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf·in [4.5 Nm]
Conductor Cross Section (max)		2AWG (Solid, Stranded) / 4AWG (Flexible)
		35mm² (Solid, Stranded) / 25mm² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Green ok / Red defect
Operating State / Fault Indication		Optional
Remote Contacts (RC)		Yes
RC Switching Capacity		AC: 250V / 0.5A; DC: 250V / 0.1A; 125V / 0.2A; 75V / 0.5A
RC Conductor Cross Section (max)		16AWG (Solid) / 1.5mm² (Solid)

Internal Configuration



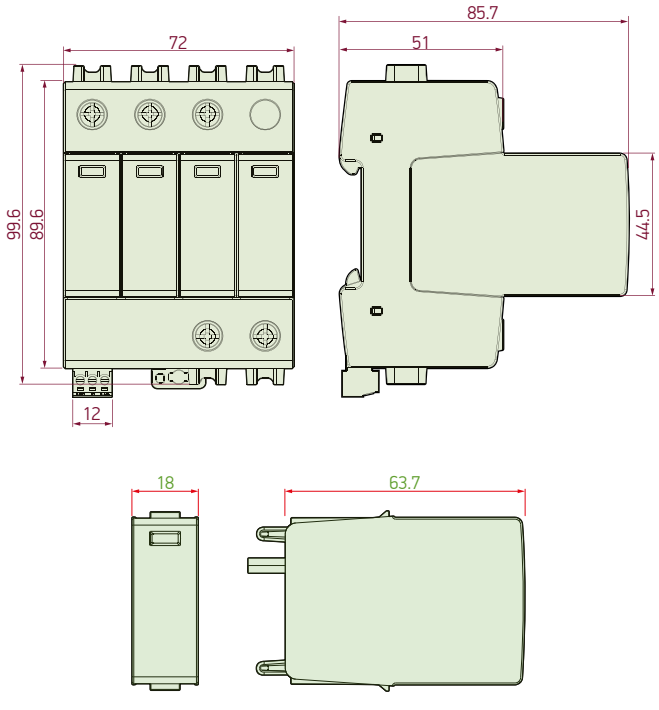
Wiring Diagram

TN-C, IT (3 Faz / *Three-phase*, 3+0)



Dimension

SLP12.5-950



Sigma
elektrik



Sigma elektrik



POWER **CONTACTORS**

Contactors are switching products that work according to the electromagnetic field principle that controls the opening and closing of the electrical circuit.

They allow remote control of electrical facilities such as electric motors, compensation and heating systems via cable. When used with thermal relays, they protect facilities and devices in the system against overload currents.

- 3 and 4 pole product options
- Wide range from 6A to 1300A
- Wide coil options (24, 42, 48, 110, 230, 400, 415AC/DC)
- Wide product range, including power, modular (silent), 6-pole and 8-pole reversing contactor, compensation and mini type contactors
- Possibility of attaching accessories from the top, left side and right side
- Double-sided coil terminal inputs (for SCG types)

Technical Specifications - 3 Poles Power Contactor with Double Coil Connection - Coil Voltage: 230V AC

	3 poles	AC coil	SCG 9	SCG 12	SCG 18	SCG 25	SCG 32	SCG 40	SCG 50	SCG 65	SCG 80	SCG 95	SCG 100
TypeRated operational current for AC-3 (Ue : 400V)		A	9	12	18	25	32	40	50	65	80	95	100
Rated thermal current (at 40°C)	Ith	A	20	25	40	40	50	60	80	100	110	135	135
Rated operational current for AC-1 (Ue: 400V) (≤ 40°C)		A	20	25	40	40	50	60	80	100	110	135	135
Rated insulation voltage	Ui	V	1000										
Rated impulse voltage	Uimp	kV	8										
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	500V	4	7.5	7.5	15	18.5	22	30	37	45	45	55
		380-440V	4	5.5	7.5	11	15	18.5	22	30	37	45	55
		220-240V	2.5	3.5	4.5	5.5	7.5	11	15	18.5	22	25	30
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	14	16	25	32	40	55	80	85	105	120	125
	AC-6a	A	2	4	5	8	10	13	16	20	25	29	32
Electrical life (No. operation) (x1000) (In)	cycle		2.000					1.500			1.000		500
Mechanical life (No. operation) (x1000)	cycle		20.000						15.000				10.000
Auxiliary contact technical specifications													
Number of auxiliary contacts (standard)			1NO+1NC										
Number of auxiliary contact options			1NO+1NC, 2NO+2NC, 4NO, 4NC, 3NO+1NC, 1NO+3NC										
Control unit specifications													
Coil type			SGB 1						SGB 2				
Supply voltages		V AC	24, 42, 48, 110, 230, 400, 415										
Max. Operating temperature		°C	-25 ... +55										
Max. Storage temperature		°C	-40 ... +65										
Relative humidity		%	95										

	3 poles	AC coil	SCG 115	SCG 150	SCG 185	SCG 225	SCG 265	SCG 330	SCG 400	SCG 500	SCG 630	SCG 800	SCG 1050	SCG 1300
Rated operational current for AC-3 (Ue : 400V)		A	115	150	185	225	265	330	400	500	630	800	1050	1300
Rated thermal current (at 40°C)	Ith	A	200	200	275	315	350	400	500	700	1000	1200	1300	1500
Rated operational current for AC-1 (Ue: 400V) (≤40°C)		A	200	200	275	315	350	400	500	700	1000	1200	1300	1500
Rated insulation voltage	Ui	V	1000										1000	
Rated impulse voltage	Uimp	kV	8										12	
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	400V	60	75	90	110	132	160	200	250	335	400	630	780
		230V	30	40	55	63	75	100	110	147	200	250		
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	140	180	220	260	300	350	470	560	730	880	960	1150
AC-6a		A	35	45	55	67	85	110	120	130	150	200	260	300
Electrical life (No. operation) (x1000) (In)	cycle		500					300						
Mechanical life (No. operation) (x1000)	cycle		10.000		5.000			3.000						
Auxiliary contact technical specifications														
Number of auxiliary contacts (standard)			2NO+2NC											
Number of auxiliary contact options			2NO+2NC									4NO+4NC		
Rated thermal current	Ith	A	16											
Control for non-inductive loads	AC-1	220V AC	16											
Control for ohmic and static loads	AC-12	220V AC	8											
Max. Operating temperature		°C	-25 ... +55											
Max. Storage temperature		°C	-40 ... +65											
Relative humidity		%	95											

Note: Request information for DC coil voltage.

3 Poles Power Contactors-Coil Voltage: 100-240V AC / 100-220V DC (Common Coil)

	3 poles		SCM 100	SCM 125	SCM 150	SCM 180
Rated operational current for AC-3 (Ue: 400V)	A		100	125	150	180
Rated thermal current (at 40°C)	Ith	A	160	160	200	230
Rated operational current for AC-1 (Ue: 400V) (≤ 40°C)		A	160	160	200	230
Rated insulation voltage	Ui	V	1.000			
Rated impulse voltage	Uimp	kV	8			
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	400V	55	60	75	90
		230V	30	37	45	55
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	70	90	100	150
Electrical life (No. operation) (x1000) (In)		cycle	500			
Mechanical life (No. operation) (x1000)		cycle	10.000			5.000
Auxiliary contact technical specifications						
Number of auxiliary contacts (standard)			2NO+2NC			
Rated thermal current	Ith	A	16			
Control for non-inductive loads	AC-1	220V AC	16			
Control for ohmic and static loads	AC-12	220V AC	8			
Max. Operating temperature		°C	-25 ... +55			
Max. Storage temperature		°C	-40 ... +65			
Relative humidity		%	95			

3 Poles Power Contactors - Coil Voltage: 24V DC

	3 poles	DC coil	SDM-9	SDM-12	SDM-18	SDM-22	SDM-32	SDM-40
Rated operational current for AC-3 (Ue : 400V)		A	9	12	18	22	32	40
Rated thermal current (at 40°C)	Ith	A	20	25	40	40	50	60
Rated operational current for AC-1 (Ue: 400V) (≤ 40°C)		A	20	25	40	40	50	60
Rated insulation voltage	Ui	V	1.000					
Rated impulse voltage	Uimp	kV	8					
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	400V	4	5.5	7.5	11	15	18.5
		230V	2.5	3.5	4.5	5.5	7.5	11
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	14	16	25	30	40	45
Electrical life (No. operation) (x1000) (In)	cycle		2.000					1.500
Mechanical life (No. operation) (x1000)	cycle		20.000					
Auxiliary contact technical specifications								
Number of auxiliary contacts (standard)			1NO+1NC					
Number of auxiliary contact options			1NO+1NC, 2NO+2NC, 4NO, 4NC, 3NO+1NC, 1NO+3NC					
Rated thermal current	Ith	A	16					
Control for non-inductive loads	AC-1	220V AC	16					
Control for ohmic and static loads	AC-12	220V AC	8					
Max. Operating temperature		°C	-25 ... +55					
Max. Storage temperature		°C	-40 ... +65					
Relative humidity		%	95					

4 Poles Power Contactors - Coil Voltage: 230V AC

	4 poles	AC coil	SCF-9	SCF-12	SCF-18	SCF-22	SCF-32	SCF-40	SCF-50	SCF-65	SCF-75	SCF-85
Rated operational current for AC-3 (Ue : 400V)		A	9	12	18	22	32	40	50	65	75	85
Rated thermal current (at 40°C)	Ith	A	20	25	40	40	50	60	80	100	110	110
Rated operational current for AC-1 (Ue: 400V) (≤ 40°C)		A	20	25	40	40	50	60	80	100	110	110
Rated insulation voltage	Ui	V	1.000						1.000			
Rated impulse voltage	Uimp	kV	8						8			
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	400V	4	5.5	7.5	11	15	18.5	22	30	37	45
		230V	2.5	3.5	4.5	5.5	7.5	11	15	18.5	22	25
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	14	16	25	30	40	45	80	85	105	120
Electrical life (No. operation) (x1000) (In)	cycle		2.000					1.500	1.500		1.000	
Mechanical life (No. operation) (x1000)	cycle		20.000						15.000			
Auxiliary contact technical specifications												
Number of auxiliary contacts (standard)			1NO+1NC									
Number of auxiliary contact options			1NO+1NC, 2NO+2NC, 4NO, 4NC, 3NO+1NC, 1NO+3NC									
Rated thermal current	Ith	A	16									
Control for non-inductive loads	AC-1	220V AC	16									
Control for ohmic and static loads	AC-12	220V AC	8									
Max. Operating temperature		°C	-25 ... +55									
Max. Storage temperature		°C	-40 ... +65									
Relative humidity		%	95									

	4 poles	AC coil	SCF-115	SCF-150	SCF-185	SCF-225	SCF-265	SCF-330	SCF-400	SCF-500	SCF-630	SCF-800	SCF-1050	SCF-1300
Rated operational current for AC-3 (Ue : 400V)		A	115	150	185	225	265	330	400	500	630	800	1050	1300
Rated thermal current (at 40°C)	Ith	A	200	200	275	315	350	400	500	700	1000	1200	1300	1500
Rated operational current for AC-1 (Ue: 400V) (≤40°C)		A	200	200	275	315	350	400	500	700	1000	1200	1300	1500
Rated insulation voltage	Ui	V	1000										1000	
Rated impulse voltage	Uimp	kV	8										12	
Max. Rating of slipring or squirrel-cage motors	AC-3 kW	400V	60	75	90	110	132	160	200	250	335	400	630	780
		230V	30	40	55	63	75	100	110	147	200	250		
Switching discharge lamps (mercury vapour lamps)	AC-5a	A	140	180	220	260	300	350	470	560	730	880	960	1150
AC-6a		A	35	45	55	67	85	110	120	130	150	200	260	300
Electrical life (No. operation) (x1000) (In)	cycle		500					300						
Mechanical life (No. operation) (x1000)	cycle		10.000		5.000			3.000						
Auxiliary contact technical specifications														
Number of auxiliary contacts (standard)			2NO+2NC											
Number of auxiliary contact options			2NO+2NC									4NO+4NC		
Rated thermal current	Ith	A	16											
Control for non-inductive loads	AC-1	220V AC	16											
Control for ohmic and static loads	AC-12	220V AC	8											
Max. Operating temperature		°C	-25 ... +55											
Max. Storage temperature		°C	-40 ... +65											
Relative humidity		%	95											

Note: Request information for DC coil voltage.

3 Poles Power Contactor with Double Coil Connection - Coil Voltage: 230V AC



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Rated Current AC-5a (A)	Auxiliary Contact on Body	Double Coil Input	Pcs in a Box	Order Code
SCG-9	4	9	25	14	1NO+1NC	✓	42	SCG009230
SCG-12	5,5	12	25	16	1NO+1NC	✓	42	SCG012230
SCG-18	7,5	18	40	25	1NO+1NC	✓	42	SCG018230
SCG-25	11	25	40	32	1NO+1NC	✓	42	SCG025230
SCG-32	15	32	50	40	1NO+1NC	✓	24	SCG032230
SCG-40	18,5	40	60	55	1NO+1NC	✓	24	SCG040230
SCG-50	22	50	80	80	1NO+1NC	✓	10	SCG050230
SCG-65	30	65	100	85	1NO+1NC	✓	10	SCG065230
SCG-80	37	80	110	105	1NO+1NC	✓	10	SCG080230
SCG-95	45	95	135	120	1NO+1NC	✓	10	SCG095230
SCG-100	55	100	160	125	1NO+1NC	✓	10	SCG100230



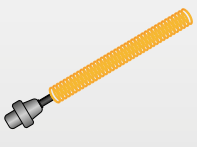
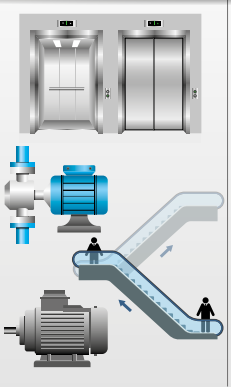
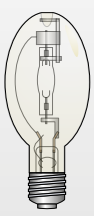
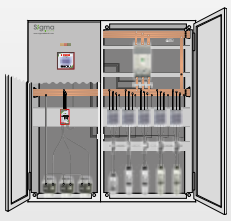
SCG 115	60	115	200	140	2NO+2NC	—	10	SCG115230
SCG 150	75	150	200	180	2NO+2NC	—	3	SCG150230
SCG 185	90	185	275	220	2NO+2NC	—	1	SCG185230
SCG 225	110	225	315	260	2NO+2NC	—	1	SCG225230
SCG 265	132	265	350	300	2NO+2NC	—	1	SCG265230
SCG 330	160	330	400	350	2NO+2NC	—	1	SCG330230
SCG 400	200	400	500	470	2NO+2NC	—	1	SCG400230
SCG 500	250	500	700	560	2NO+2NC	—	1	SCG500230
SCG 630	335	630	1000	730	2NO+2NC	—	1	SCG630230
SCG 800	400	800	1200	880	2NO+2NC	—	1	SCG800230
New Product	SCG 1050	630	1050	1300	960	2NO+2NC	—	1	SCG1050230
New Product	SCG 1300	780	1300	1500	1150	2NO+2NC	—	1	SCG1300230

Note: The last 3 digits of the order code indicate the coil voltage.
Note: In SCG type contactors; Coil options with **24V AC, 42V AC, 48V AC, 110V AC, 230V AC, 400V AC, 415V AC** operating voltage are available.

EXAMPLE: SCG 009 230 : 9A (AC-3) 230V AC coil voltage, SCG type contactor
- 230 — Coil voltage
- 009 — AC-3 current

EXAMPLE: SCG 009 048 : 9A (AC-3) 48V AC coil voltage, SCG type contactor
- 048 — Coil voltage
- 009 — AC-3 current

THE USAGE CATEGORY OF CONTACTORS

AC-1	AC-3	AC-5a	AC-6b
			
Ohmic Loads (Large Heaters)		Discharge Lamp	Compensation Systems

SCM Series, 3 Poles Power Contactors - Coil Voltage: 230V AC

New Product!



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Pcs in a Box	Order Code
SCM 9	4	9	20	1NO+1NC	1	42	SCM009230
SCM 12	5,5	12	25	1NO+1NC	1	42	SCM012230
SCM 18	7,5	18	32	1NO+1NC	1	42	SCM018230
SCM 25	11	25	40	1NO+1NC	1	42	SCM025230
SCM 32	15	32	50	1NO+1NC	1	42	SCM032230
SCM 40	18,5	40	50	1NO+1NC	1	42	SCM040230

Mechanical interlock for SCM Series

New Product!



Type Code	Compatible with	Order Code
SCMMK	SCM09-SCM25	SCMMK-01

Time Relay for SCM Series

New Product!



Type Code	Properties	Auxiliary Contact	Compatible with	Order Code
SCMT-1S11	0-30 sec. delayed on pickup	1NO+1NC	SCM09-SCM25	SCMT-1S11

Auxiliary Contact Blocks for SCM Series

New Product!



Type Code	Auxiliary Contact	Type of Assembly	Compatible with	Order Code
SAM-2	1NO+1NC	top	SCM09-SCM40	SAM-2S11
	2NO	top		SAM-2S20
SAM-4	2NO+2NC	top	SCM09-SCM40	SAM-4S22
	4NO	top		SAM-4S40
	4NC	top		SAM-4S04

3 Poles Power Contactors - Coil Voltage: 100-240 V AC/DC (Common Coil)

New Product!



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Order Code
SGD 9	4	9	25	1NO+1NC	1	SGD009240ADC
SGD 12	5,5	12	25	1NO+1NC	1	SGD012240ADC
SGD 18	7,5	18	32	1NO+1NC	1	SGD018240ADC
SGD 25	11	25	40	1NO+1NC	1	SGD025240ADC
SGD 32	15	32	50	1NO+1NC	1	SGD032240ADC
SGD 40	18,5	40	50	1NO+1NC	1	SGD040240ADC
SGD 50	22	50	80	1NO+1NC	1	SGD050240ADC
SGD 65	30	65	100	1NO+1NC	1	SGD065240ADC
SGD 80	37	80	110	1NO+1NC	1	SGD080240ADC
SGD 95	45	95	135	1NO+1NC	1	SGD095240ADC
SGD 110	50	110	160	1NO+1NC	1	SGD110240ADC

Note: Please contact us for 24-48 V AC/DC coils.

3 Poles Power Contactors - Coil Voltage: 100-240 V AC / 100-240 V DC (Common Coil)

New Product!



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Order Code
SGD 115	60	125	200	2NO+2NC	1	SGDD115ADC
SGD 150	75	150	210	2NO+2NC	1	SGDD150ADC
SGD 185	90	185	275	2NO+2NC	1	SGDD185ADC
SGD 225	110	225	315	2NO+2NC	1	SGDD225ADC
SGD 265	132	265	350	2NO+2NC	1	SGDD265ADC
SGD 330	160	330	400	2NO+2NC	1	SGDD330ADC
SGD 400	200	400	500	2NO+2NC	1	SGDD400ADC
SGD 500	250	500	700	2NO+2NC	1	SGDD500ADC
SGD 630	335	630	1000	2NO+2NC	1	SGDD630ADC
SGD 800	400	800	1200	2NO+2NC	1	SGDD800ADC

3 Poles Power Contactors - Coil Voltage: 24V DC



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Pcs in a Box	Order Code
SDM-9	4	9	20	1NO+1NC	1	32	SDM009024
SDM-12	5,5	12	25	1NO+1NC	1	32	SDM012024
SDM-18	7,5	18	40	1NO+1NC	1	32	SDM018024
SDM-22	11	22	40	1NO+1NC	1	32	SDM022024
SDM-32	15	32	50	1NO+1NC	1	16	SDM032024
SDM-40	18,5	40	60	1NO+1NC	1	16	SDM040024

Note: The last 3 digits of the order code indicate the coil voltage.
Note: In SDM9-SDM40 type contactors; Coil options with 24V DC, 48V DC, 60V DC, 110V DC operating voltage are available.

EXAMPLE: SDM 009 048 : 9A (AC-3) 48V DC coil voltage, SDM type contactor

Coil voltage

AC-3 current

4 Poles Power Contactors - Coil Voltage: 230V AC





Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Pcs in a Box	Order Code
SCF 9	4	9	20	1NO+1NC	1	33	SCF009230
SCF 12	5,5	12	25	1NO+1NC	1	33	SCF012230
SCF 18	7,5	18	40	1NO+1NC	1	33	SCF018230
SCF 22	11	22	40	1NO+1NC	1	33	SCF022230
SCF 32	15	32	50	1NO+1NC	1	24	SCF032230
SCF 40	18,5	40	60	1NO+1NC	1	24	SCF040230
SCF 50	22	50	80	1NO+1NC	1	8	SCF050230
SCF 65	30	65	100	1NO+1NC	1	8	SCF065230
SCF 75	37	75	110	1NO+1NC	1	8	SCF075230
SCF 85	45	85	110	1NO+1NC	1	8	SCF085230
SCF 115	55	115	200	2NO+2NC	1	1	SCF115230
SCF 150	75	150	200	2NO+2NC	1	1	SCF150230
SCF 185	90	180	275	2NO+2NC	1	1	SCF185230
SCF 225	110	225	315	2NO+2NC	1	1	SCF225230
SCF 265	132	265	350	2NO+2NC	1	1	SCF265230
SCF 330	160	330	400	2NO+2NC	1	2	SCF330230
SCF 400	200	400	500	2NO+2NC	1	2	SCF400230
SCF 500	250	500	700	2NO+2NC	1	2	SCF500230
SCF 630	335	630	1000	2NO+2NC	1	2	SCF630230
SCF 800	400	800	1200	2NO+2NC	1	2	SCF800230
NEW PRODUCT SCF 1050	630	1050	1300	2NO+2NC	1	2	SCF1050230
NEW PRODUCT SCF 1300	780	1300	1550	2NO+2NC	1	2	SCF1300230

4 Poles Power Contactors - Coil Voltage: 230V AC



Type Code	Rated Power (kW) (at 400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact	Min. Order Quantity	Pcs in a Box	Order Code
SCH 9	4	9	25	2NO+2NC	1	33	SCH009230
SCH 12	5,5	12	25	2NO+2NC	1	33	SCH012230
SCH 18	7,5	18	40	2NO+2NC	1	33	SCH018230
SCH 25	11	25	40	2NO+2NC	1	33	SCH022230
SCH 32	15	32	50	2NO+2NC	1	24	SCH032230
SCH 40	18,5	40	60	2NO+2NC	1	24	SCH040230
SCH 50	22	50	80	2NO+2NC	1	6	SCH050230
SCH 65	30	65	100	2NO+2NC	1	10	SCH065230
SCH 80	37	75	110	2NO+2NC	1	10	SCH075230
SCH 95	45	85	135	2NO+2NC	1	6	SCH085230

4 Poles Power Contactors - Coil Voltage: 24V DC

New Product!



Type Code	Rated Power (kW) (at 400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact	Min. Order Quantity	Pcs in a Box	Order Code
SDF 9	4	9	25	—	1	32	SDF009024
SDF 12	5,5	12	25	—	1	32	SDF012024
SDF 18	7,5	18	40	—	1	32	SDF018024
SDF 22	11	22	40	—	1	32	SDF025024
SDF 32	15	32	50	—	1	16	SDF032024
SDF 40	18,5	40	60	—	1	16	SDF040024
SDF 50	22	50	70	—	1	8	SDF050024
SDF 65	30	65	80	—	1	8	SDF065024
SDF 80	37	80	125	—	1	8	SDF080024
SDF 95	45	95	140	—	1	8	SDF095024

Note: For 4 Poles power contactors please contact for different coil voltage.

4 Poles Power Contactors - Coil Voltage: 100-240V AC DC (Common Coil)

New Product!

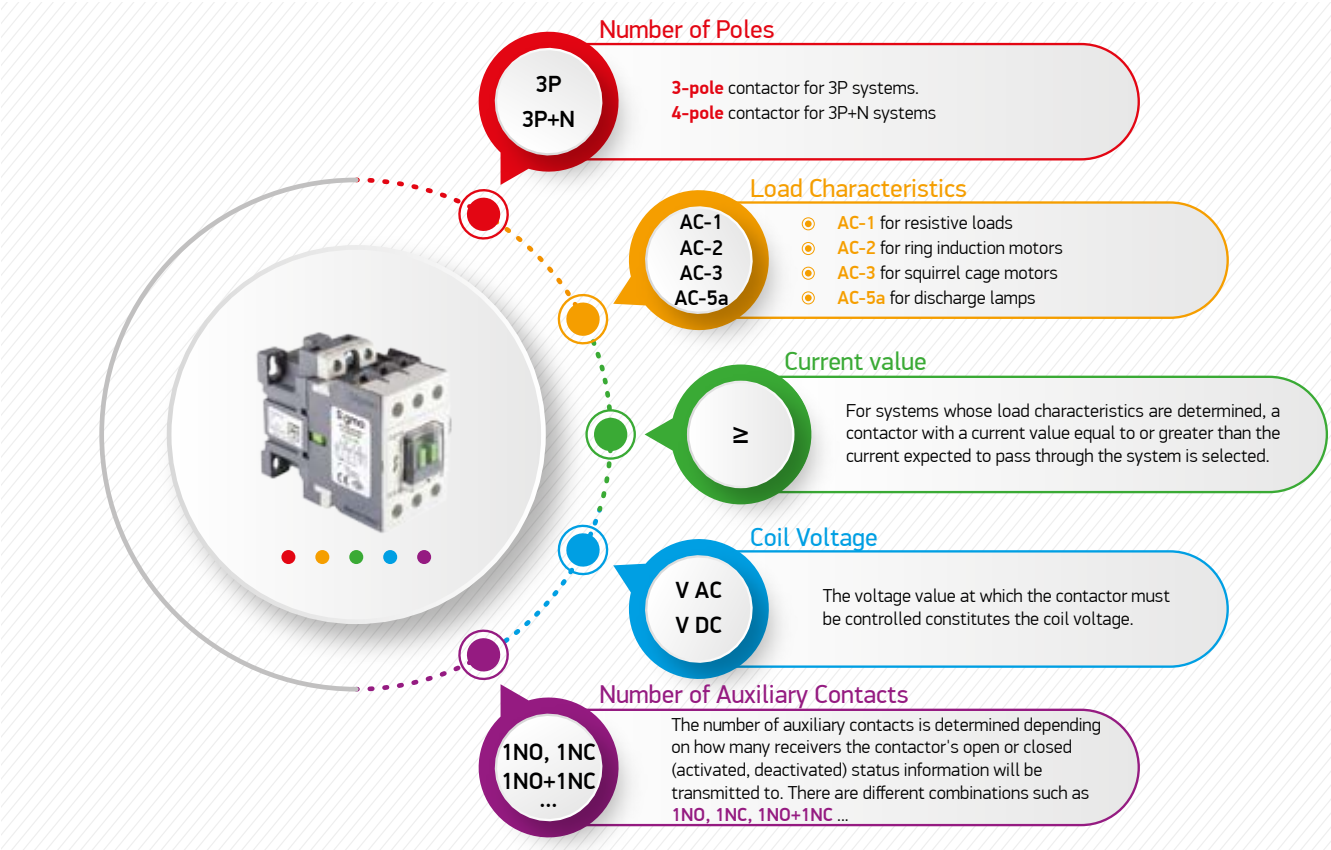
Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Order Code
SFD9	4	9	25	1NO+1NC	SFD009240ADC
SFD12	5,5	12	25	1NO+1NC	SFD012240ADC
SFD18	7,5	18	32	1NO+1NC	SFD018240ADC
SFD25	11	25	40	1NO+1NC	SFD025240ADC
SFD32	15	32	50	1NO+1NC	SFD032240ADC
SFD40	18,5	40	50	1NO+1NC	SFD040240ADC
SFD50	22	50	80	1NO+1NC	SFD050240ADC
SFD65	30	65	100	1NO+1NC	SFD065240ADC
SFD80	37	80	110	1NO+1NC	SFD080240ADC
SFD95	45	95	135	1NO+1NC	SFD095240ADC

Note: 24-48 V AC/DC bobinler için irtibata geçiniz.

4 Poles Power Contactors - Coil Voltage: 100-240V AC / 100-220V DC (Common Coil)

New Product!

Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Order Code
SFD115	60	115	200	2NO+2NC	SFDD115ADC
SFD150	75	150	210	2NO+2NC	SFDD150ADC
SFD185	90	185	275	2NO+2NC	SFDD185ADC
SFD225	110	225	315	2NO+2NC	SFDD225ADC
SFD265	132	265	350	2NO+2NC	SFDD265ADC
SFD330	160	330	400	2NO+2NC	SFDD330ADC
SFD400	200	400	500	2NO+2NC	SFDD400ADC
SFD500	250	500	700	2NO+2NC	SFDD500ADC
SFD630	335	630	1000	2NO+2NC	SFDD630ADC
SFD800	400	800	1200	2NO+2NC	SFDD800ADC



3 Poles Reversing Contactors - Coil Voltage: 230V AC



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Min. Order Quantity	Pcs in a Box	Order Code
SCR-9	4	9	25	1	10	SCR009230
SCR-12	5,5	12	25	1	10	SCR012230
SCR-18	7,5	18	40	1	10	SCR018230
SCR-25	11	25	40	1	10	SCR022230
SCR-32	15	32	50	1	10	SCR032230
SCR-40	18,5	40	60	1	10	SCR040230
SCR-50	22	50	80	1	4	SCR050230
SCR-65	30	65	100	1	4	SCR065230
SCR-80	37	80	110	1	4	SCR075230
SCR-95	45	95	135	1	4	SCR085230
SCR-100	55	100	160	1	1	SCR100230

4 Poles Reversing Contactors - Coil Voltage: 230V AC



Type Code	Rated Power at 400V (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Min. Order Quantity	Pcs in a Box	Order Code
SCT-9	4	9	25	1	10	SCT009230
SCT-12	5,5	12	25	1	10	SCT012230
SCT-18	7,5	18	40	1	10	SCT018230
SCT-22	11	22	40	1	10	SCT022230
SCT-32	15	32	50	1	10	SCT032230
SCT-40	18,5	40	60	1	10	SCT040230
SCT-50	22	50	80	1	4	SCT050230
SCT-65	30	65	100	1	4	SCT065230
SCT-75	37	75	110	1	4	SCT075230
SCT-85	45	85	135	1	4	SCT085230

Mechanical Interlock



Type Code	Applicable Contactors	Order Code
SCGMK	SCG115 - SCG150 / SCF115 - SCF150	SCGMK-001
	SCG185 - SCG225 / SCF185 - SCF225	SCGMK-002
	SCG265 - SCG330 - SCG400 - SCG500 / SCF265 - SCF330 - SCF400 - SCF500	SCGMK-003
	SCG630 - SCG800 / SCF630 - SCF800	SCGMK-004

Auxiliary Contact Blocks



Type Code	Compatible with	Auxiliary Contact on Body	Type of Assembly	Order Code
SAC-1	SCG-9 ... SCG-100	1NO+1NC	left Side	SAC-1G11
SAC-100	SCM 100 ... SCM 250	1NO+1NC	left Side	SAC-1B11
SAC-2	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	1NO+1NC	Top	SAC-2S11
	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	2NO	Top	SAC-2S20
SAC-4	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	2NO+2NC	Top	SAC-4S22
	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	3NO+1NC	Top	SAC-4S31
	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	1NO+3NC	Top	SAC-4S13
	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	4NO	Top	SAC-4S40
	SCG 9 ... SCG 100 / SCF 9 ... SCF 85	4NC	Top	SAC-4S04
SAC-5	SCG 115 ... SCG 800	2NO+2NC	Top	SAC-5S22

3 Poles Mini Contactors - Coil Voltage: 230V AC



Type Code	Rated Power at (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Pcs in a Box	Order Code
SCM-6M	2.2	6	20	1NO	1	80	SCM0610230
	2.2	6	20	1NC	1	80	SCM0601230
SCM-9M	4	9	20	1NO	1	80	SCM0910230
	4	9	20	1NC	1	80	SCM0901230
SCM-12M	5.5	12	20	1NO	1	80	SCM1210230
	5.5	12	20	1NC	1	80	SCM1201230
SCM-16M	7.5	16	20	1NO	1	80	SCM1610230
	7.5	16	20	1NC	1	80	SCM1601230

Note: The last 3 digits of the order code indicate the coil voltage.
Note: In SCM type mini contactors; Coil options with 24V AC, 42V AC, 48V AC, 110V AC, 230V AC operating voltage are available.

EXAMPLE: SCM 06 10 110 : 9A (AC-3) 110V AC coil voltage, 1NO Auxiliary Contact, SCM type mini contactor.

- 110 — Coil voltage
- 10 — 1NO Auxiliary Contact
- 06 — AC-3 current

3 Poles Mini Contactors - Coil Voltage: 24V DC



Type Code	Rated Power at (kW)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Auxiliary Contact on Body	Min. Order Quantity	Pcs in a Box	Order Code
SDM-6M	2.2	6	20	1NO	1	80	SDM0610024
	2.2	6	20	1NC	1	80	SDM0601024
SDM-9M	4	6	20	1NO	1	80	SDM0910024
	4	9	20	1NC	1	80	SDM0901024
SDM-12M	5.5	12	20	1NO	1	80	SDM1210024
	5.5	12	20	1NC	1	80	SDM1201024
SDM-16M	7.5	16	20	1NO	1	80	SDM1610024
	7.5	16	20	1NC	1	80	SDM1601024

Note: The last 3 digits of the order code indicate the coil voltage
Note: In SDM type mini contactors; Coil options with 24V DC, 48V DC, 110V DC operating voltage are available

EXAMPLE: SDM 06 01 110 : 9A (AC-3) 110V DC coil voltage, 1NC Auxiliary Contact, SDM type mini contactor.

- 110 — Coil voltage
- 01 — 1NC Auxiliary Contact
- 06 — AC-3 current

Auxiliary Contact Blocks for Mini Contactors



Type Code	Auxiliary Contact on Body	Type of Assembly	Order Code
SAC-4M	2NO+2NC	Top	SAC-4M22
	3NO+1NC	Top	SAC-4M31
	4NO	Top	SAC-4M40
	4NC	Top	SAC-4M04

Modular Contactors - 240V AC



Type Code	Rated Current (A)	Number of poles	Contact Structure	Coil Voltage	Order Code
SMC-2025	25	2	1NO+1NC	240V AC	SMC-2025-1NO+1NC
	25	2	2 NO	240V AC	SMC-2025-2NO
SMC-2063	63	2	2 NO	240V AC	SMC-2063-2NO
SMC-4025	25	4	2NO+2NC	240V AC	SMC-4025-2NO+2NC
	25	4	4 NO	240V AC	SMC-4025-4NO
SMC-4040	40	4	2NO+2NC	240V AC	SMC-4040-2NO+2NC
SMC-4063	63	4	2NO+2NC	240V AC	SMC-4063-2NO+2NC
	63	4	4 NO	240V AC	SMC-4063-4NO
SMC-4100	100	4	4 NO	240V AC	SMC-4100-4NO

Modular Contactors - 240V AC/DC Common Coil

New Product!



Type Code	Rated Current (A)	Number of poles	Contact Structure	Coil Voltage	Order Code
SMC-2025	25	2	2 NO	240V AC/DC	SMC-2025-2NO/ACDC240
SMC-2063	63	2	2 NO	240V AC/DC	SMC-2063-2NO/ACDC240
SMC-4025	25	4	4 NO	240V AC/DC	SMC-4025-4NO/ACDC240
SMC-4063	63	4	4 NO	240V AC/DC	SMC-4063-4NO/ACDC240

Note: Please contact our sales department for modular contactors with different coil supply and contact structure.

Modular Contactors - 24V AC/DC Common Coil

New Product!



Type Code	Rated Current (A)	Number of poles	Contact Structure	Coil Voltage	Order Code
SMC-2025	25	2	2 NO	24V AC/DC	SMC-2025-2NO/ACDC24
SMC-2063	63	2	2 NO	24V AC/DC	SMC-2063-2NO/ACDC24
SMC-4025	25	4	4 NO	24V AC/DC	SMC-4025-4NO/ACDC24
SMC-4063	63	4	4 NO	24V AC/DC	SMC-4063-4NO/ACDC24

Note: Please contact our sales department for modular contactors with different coil supply and contact structure.

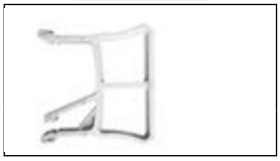
Auxiliary Contact for Modular Contactor



Type Code	Contact Structure	Order Code
SMC-YK	1 NO +1 NC	SMCYK

Thermal Insulation Plate for Modular Contactor

New Product!



Type Code	Order Code
SMC-YA	SMCYA

Note: It is recommended to use a thermal insulation plate after every 3 modular contactors used side-by-side.

Spare Coils

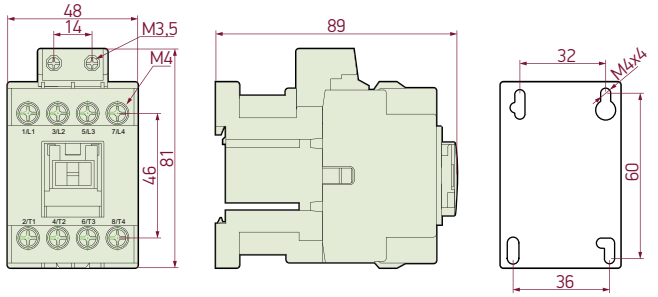




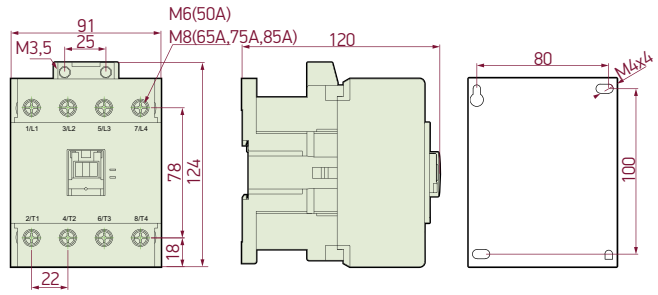
Type Code	Compatible with	Coil Voltage	Order Code
SGB-1	SCG 9 ... SCG 40	24V AC 50/60Hz	SGB1-024AC
	SCG 9 ... SCG 40	42V AC 50/60Hz	SGB1-042AC
	SCG 9 ... SCG 40	48V AC 50/60Hz	SGB1-048AC
	SCG 9 ... SCG 40	110V AC 50/60Hz	SGB1-110AC
	SCG 9 ... SCG 40	230V AC 50/60Hz	SGB1-230AC
	SCG 9 ... SCG 40	400V AC 50/60Hz	SGB1-400AC
	SCG 9 ... SCG 40	415V AC 50/60Hz	SGB1-415AC
SGB-2	SCG 50 ... SCG 100	24V AC 50/60Hz	SGB2-024AC
	SCG 50 ... SCG 100	42V AC 50/60Hz	SGB2-042AC
	SCG 50 ... SCG 100	48V AC 50/60Hz	SGB2-048AC
	SCG 50 ... SCG 100	110V AC 50/60Hz	SGB2-110AC
	SCG 50 ... SCG 100	230V AC 50/60Hz	SGB2-230AC
	SCG 50 ... SCG 100	400V AC 50/60Hz	SGB2-400AC
	SCG 50 ... SCG 100	415V AC 50/60Hz	SGB2-415AC
SGB-3	SCG 115 ... SCG 150 SCF 115 ... SCF 150	230V AC 50/60Hz	SGB3-230AC
	SCG 115 ... SCG 150	400V AC 50/60Hz	SGB3-400AC
	SCG 115 ... SCG 150	110V DC	SGB3-110DC
SGB-4	SCG 185 ... SCG 225 SCF 185 ... SCF 225	230V AC 50/60Hz	SGB4-230AC
	SCG 185 ... SCG 225	400V AC 50/60Hz	SGB4-400AC
	SCG 185 ... SCG 225	110V DC	SGB4-110DC
SGB-5	SCG 265 ... SCG 330 SCF 265 ... SCF 330	230V AC 50/60Hz	SGB5-230AC
	SCG 265 ... SCG 330	400V AC 50/60Hz	SGB5-400AC
	SCG 265 ... SCG 330	110V DC	SGB5-110DC
SGB-6	SCG 400 SCF 400	230V AC 50/60Hz	SGB6-230AC
	SCG 400	400V AC 50/60Hz	SGB6-400AC
	SCG 400	110V DC	SGB6-110DC
SGB-7	SCG 500	230V AC 50/60Hz	SGB7-230AC
	SCG 500	400V AC 50/60Hz	SGB7-400AC
	SCG 500	110V DC	SGB7-110DC
SGB-8	SCG 630 ... SCG 800 SCF 630 ... SCF 800	230V AC 50/60Hz	SGB8-230AC
	SCG 630 ... SCG 800	400V AC 50/60Hz	SGB8-400AC
	SCG 630 ... SCG 800	110V DC	SGB8-110DC
SYB1	SCF 9 ... SCF 40	230V AC	SYB1-230AC
SYB2	SCF 50 ... SCF 95	230V AC	SYB2-230AC
SYB-3 (full set coil)	SCM 100 ... SCM 150	100-240V AC / 100-220V DC	SYB3-0ACDC
SYB-4 (full set coil)	SCM 180 ... SCM 250	100-240V AC / 100-220V DC	SYB4-0ACDC
SYD-1	SDM 9 ... SDM 40	24V DC	SYD1-024DC
	SDM 9 ... SDM 40	48V DC	SYD1-048DC
	SDM 9 ... SDM 40	60V DC	SYD1-060DC
	SDM 9 ... SDM 40	110V DC	SYD1-110DC
SYM-1	SCM 6M ... SCM 16M	24V AC 50/60Hz	SYM1-024AC
	SCM 6M ... SCM 16M	42V AC 50/60Hz	SYM1-042AC
	SCM 6M ... SCM 16M	48V AC 50/60Hz	SYM1-048AC
	SCM 6M ... SCM 16M	110V AC 50/60Hz	SYM1-110AC
	SCM 6M ... SCM 16M	230V AC 50/60Hz	SYM1-230AC
SMD-1	SDM 6M ... SDM 16M	24V DC	SMD1-024DC
	SDM 6M ... SDM 16M	48V DC	SMD1-048DC
	SDM 6M ... SDM 16M	110V DC	SMD1-110DC

Dimensions

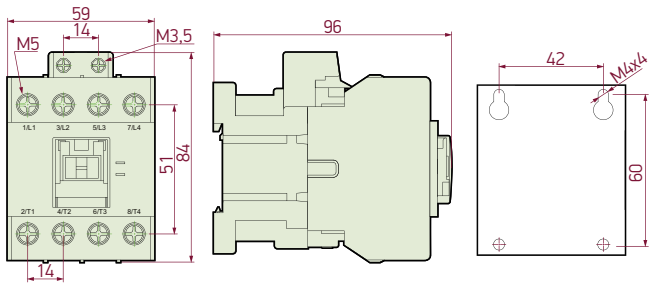
SCF 9-22



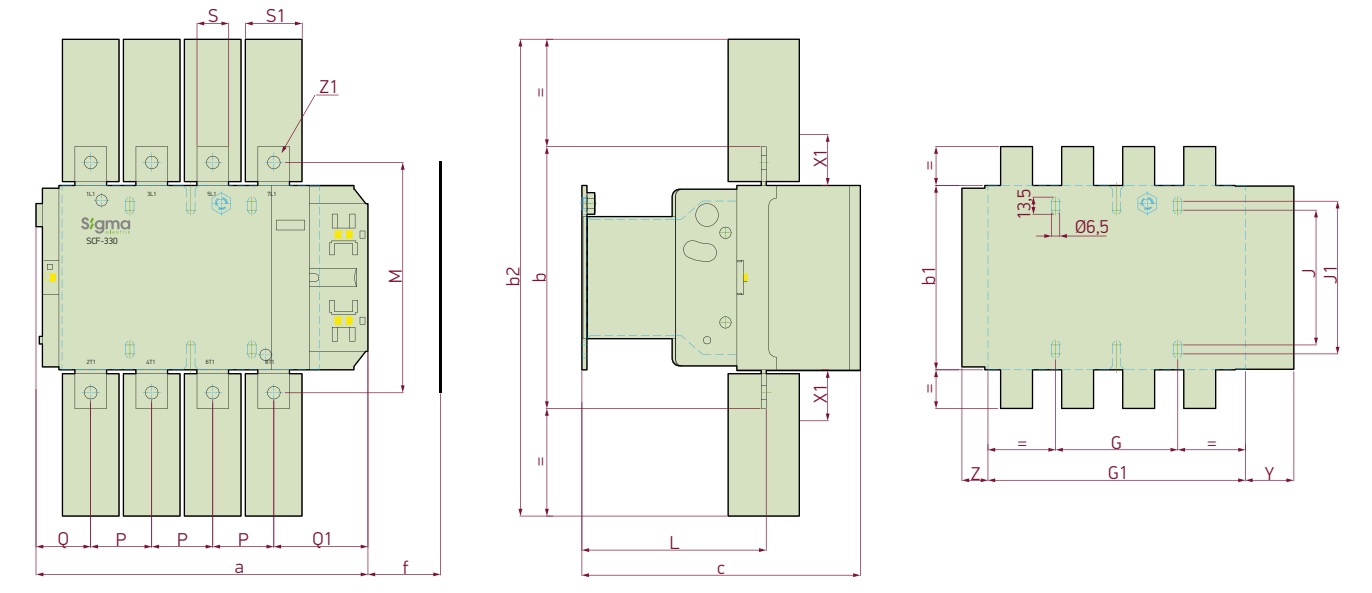
SCF 50-85



SCF 32-40

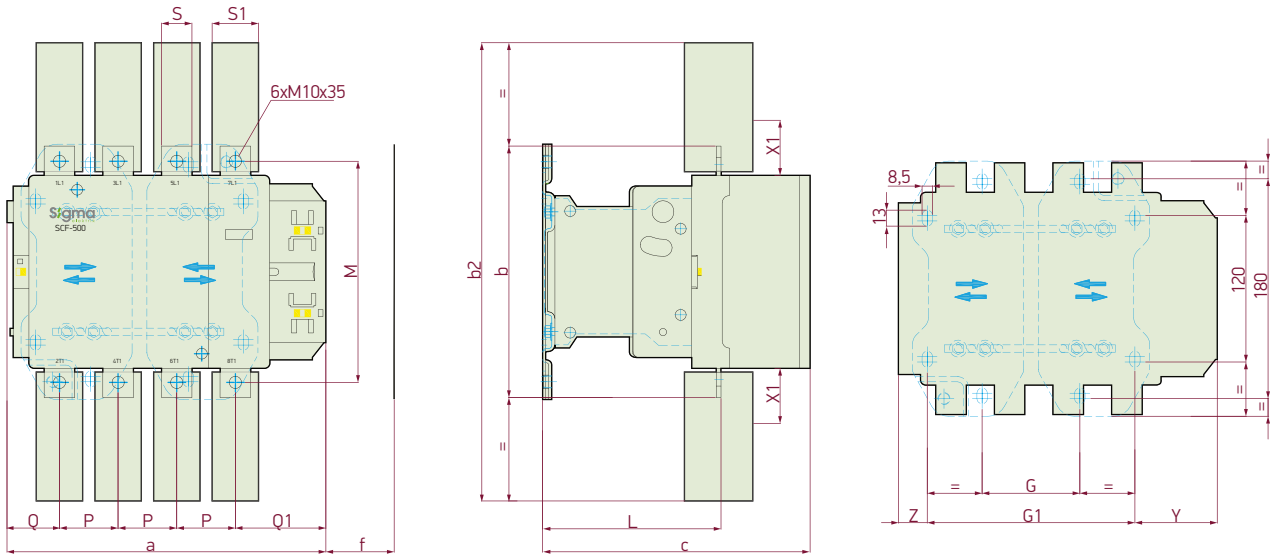


SCF 115-150-185-225-265-330



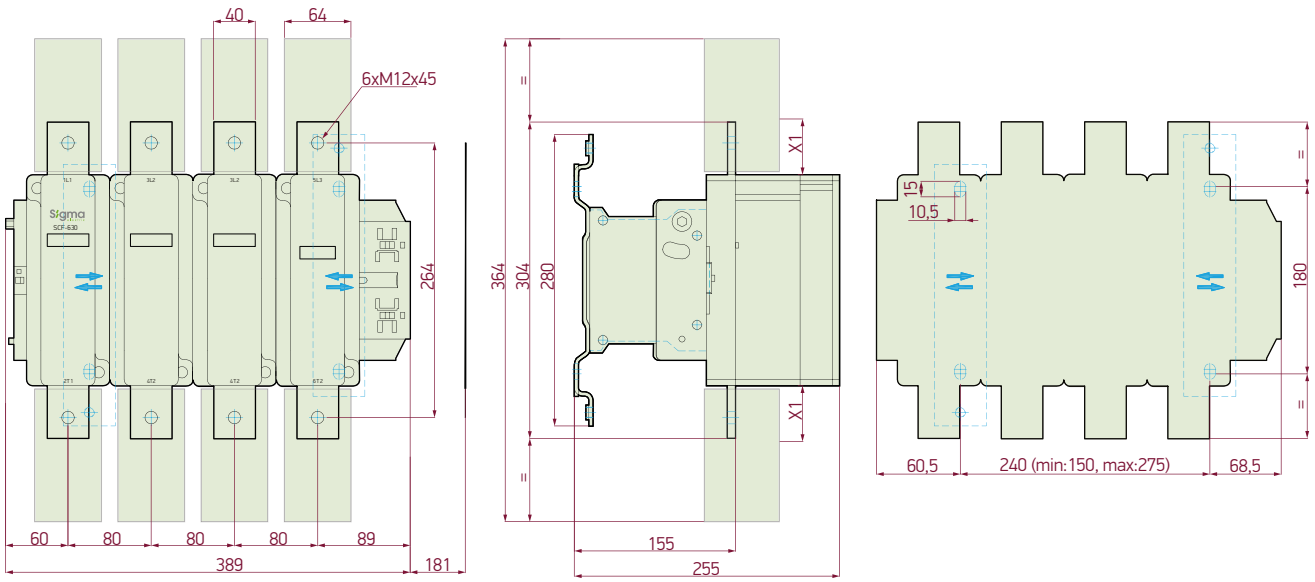
SCF	a	b	b1	b2	c	f	G	G1	J	J1	L	M	P	Q	Q1	S	S1	Y	Z	Z1
115A	200,5	162	137	265	171	131	80	143	106	120	107	147	37	29,5	60	20	26	44	13,5	M6x25
150A	200,5	170	137	301	171	131	80	143	106	120	107	150	40	26	55,5	20	34	44	13,5	M8x25
185A	208,5	174	137	305	181	130	80	151	106	120	113,5	154	40	29	59,5	20	34	44	13,5	M8x25
225A	208,5	197	137	364	181	130	80	151	106	120	113,5	172	48	17	47,5	25	44,,5	44	13,5	M10x25
265A	244,5	203	145	375	213	147	96	190	106	120	141	178	48	34	66,5	25	44,5	38	21,5	M10x25
330A	261	206	145	375	219	147	96	202,5	106	120	145	181	48	43	74	25	44,5	38	20,5	M10x25

SCF 400 - SCF 500

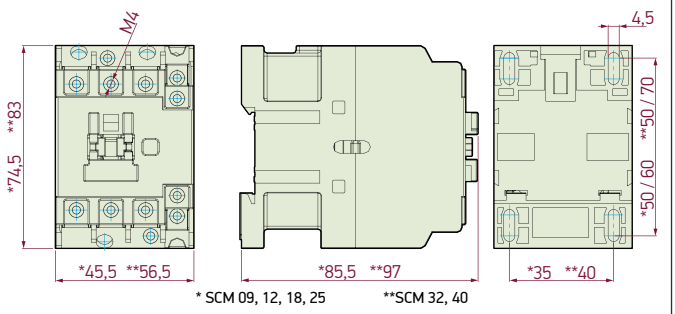


SCF	a	b	b2	c	f	G	Gmin	Gmax	G1	G1min	G1max	L	M	P	Q	Q1	S	S1	Y	Z
400A	261	206	375	219	119	80	66	150	170	156	240	145	181	48	43	74	25	44,5	67,5	23,5
500A	288	238	400	232	141	140	66	175	230	156	265	146	208	55	46	77	30	44,5	34,5	23,5

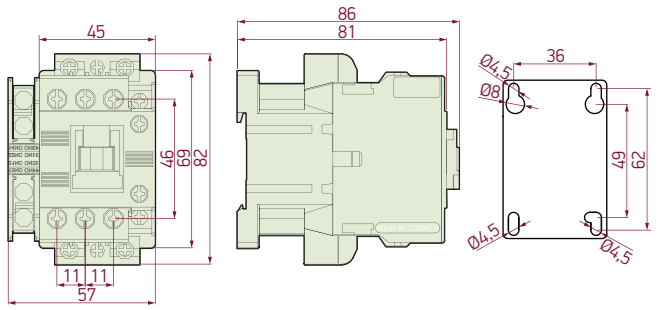
SCF 630 - SCF 800



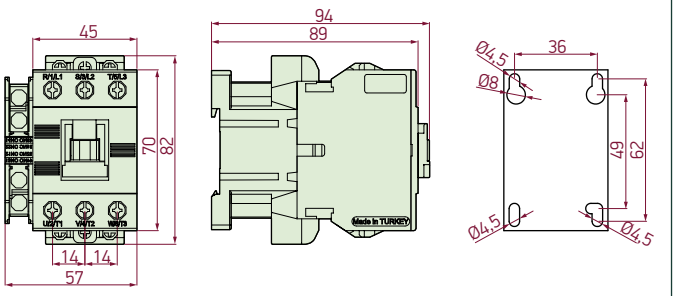
SCM 9-40



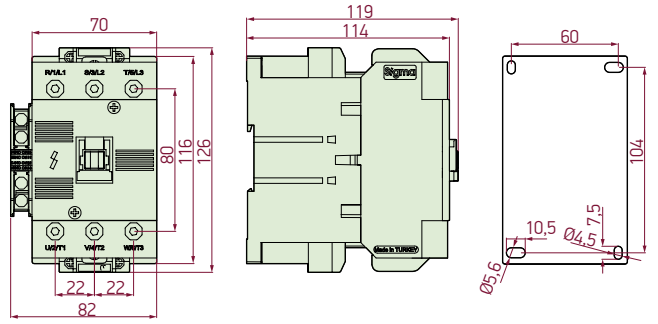
SCG 9-25



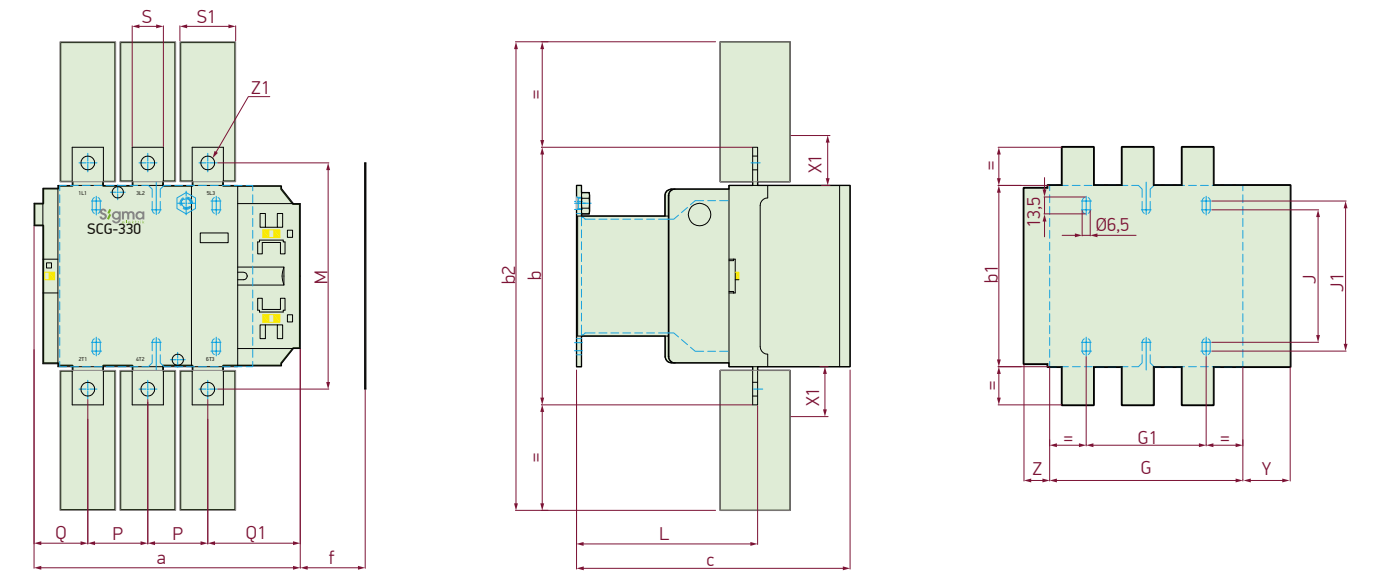
SCG 32-40



SCG 50-100

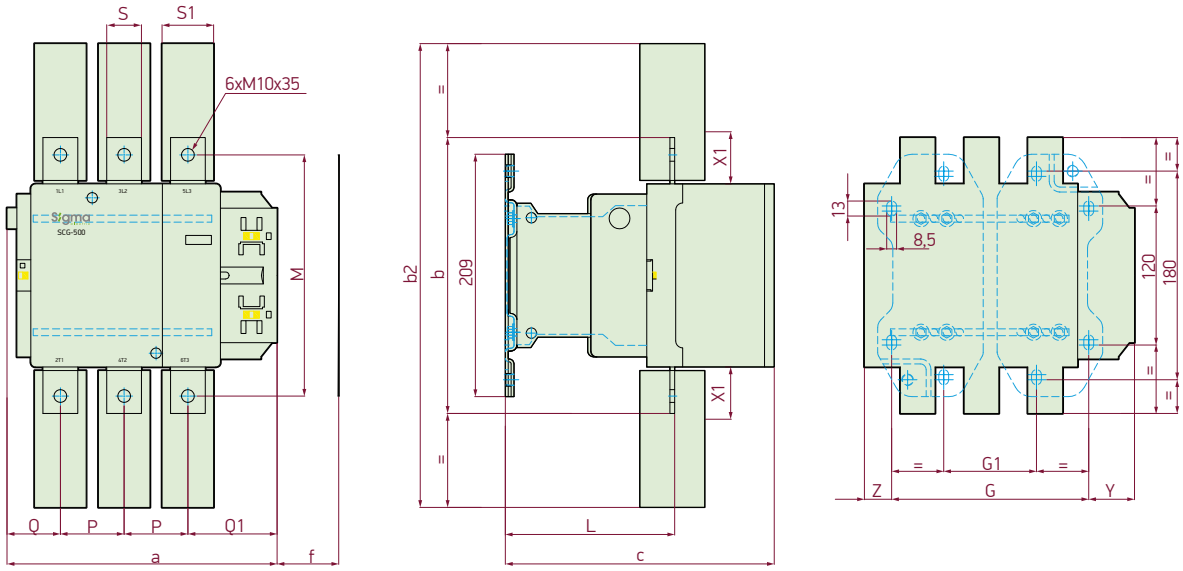


SCG 115-330



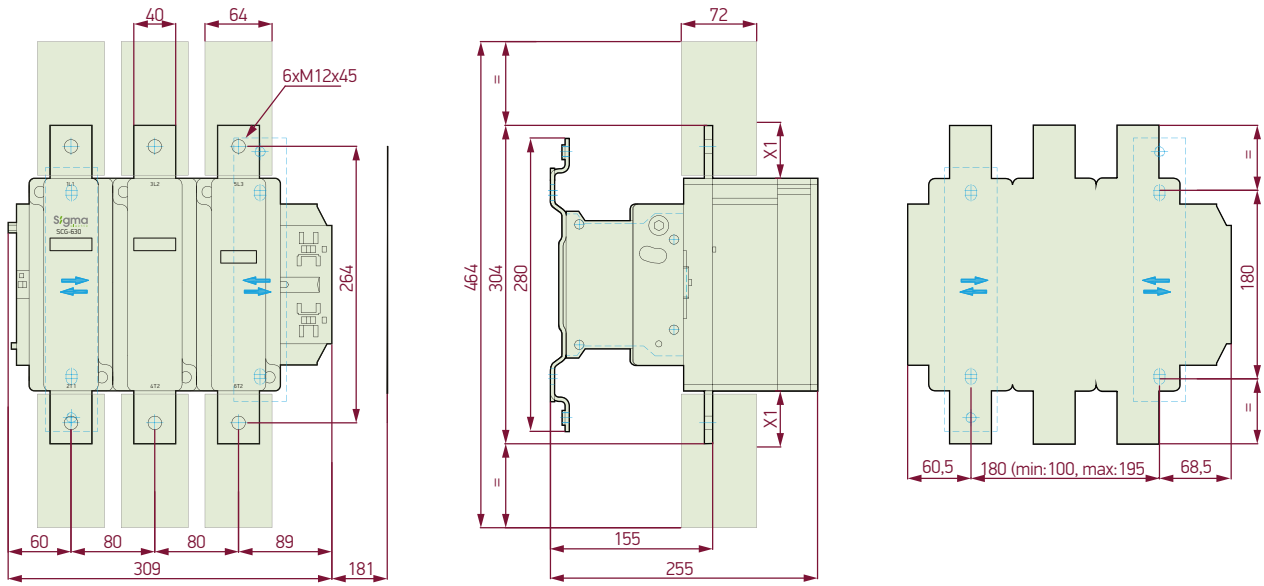
SCG	a	b	b1	b2	c	f	G	G1	j	j1	L	M	P	Q	Q1	S	S1	Y	Z	Z1
115A	163,5	162	137	265	171	131	106	80	106	120	107	147	37	29,5	60	20	26	44	13,5	M6x25
150A	163,5	170	137	301	171	131	106	80	106	120	107	150	40	26	57,5	20	34	44	13,5	M8x25
185A	168,5	174	137	305	181	130	111	80	106	120	113,5	154	40	29	59,5	20	34	44	13,5	M8x25
225A	168,5	197	137	364	181	130	111	80	106	120	113,5	172	48	21	51,5	25	44,5	44	13,5	M10x35
265A	201,5	203	145	375	213	147	142	96	106	120	141	178	48	39	66,5	25	44,5	38	21,5	M10x35
330A	213	206	145	375	219	147	154,5	96	106	120	145	181	48	43	74	25	44,5	38	20,5	M10x35

SCG 400-500

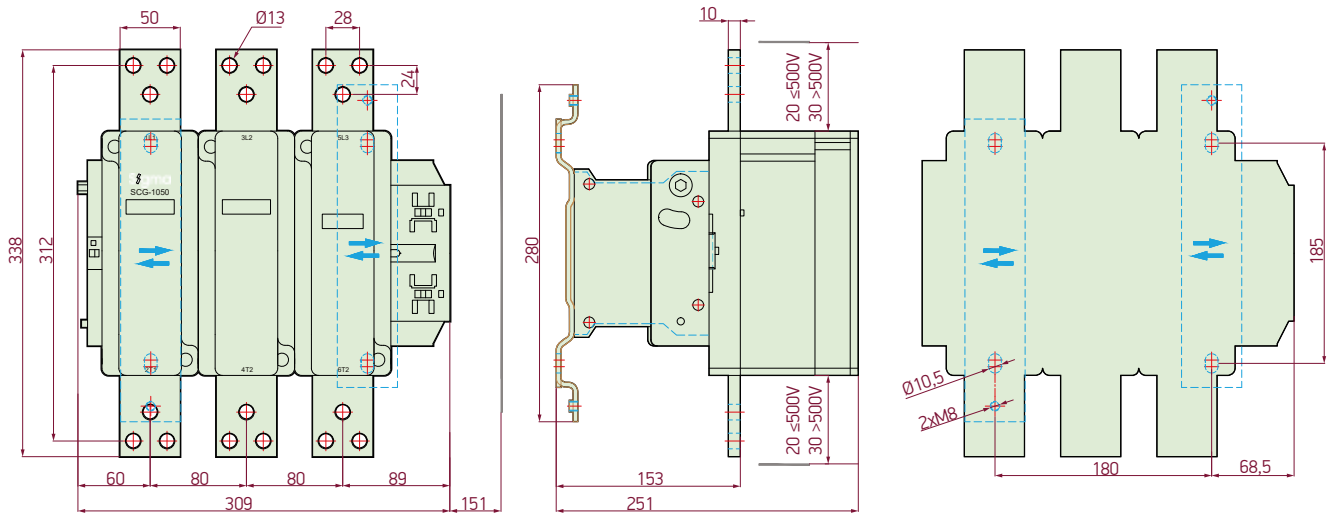


SCG	a	b	b2	c	f	G	Gmin.	Gmax.	G1	G1 min.	G1 max.	L	M	P	Q	Q1	S	S1	Y	Z
400A	213	206	375	219	119	170	156	192	80	66	102	145	181	48	43	74	25	44,5	19,5	23,5
500A	233	238	400	232	141	170	156	210	80	66	120	146	208	55	46	77	30	44,5	39,5	23,5

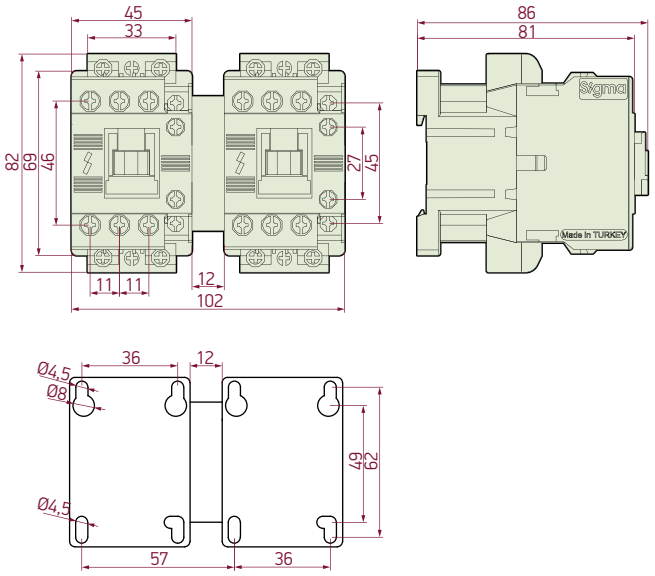
SCG 630-800



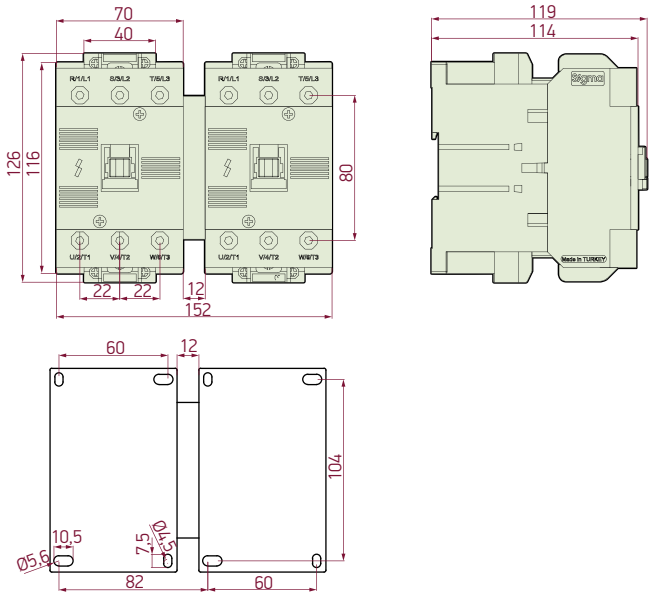
SCG 1050



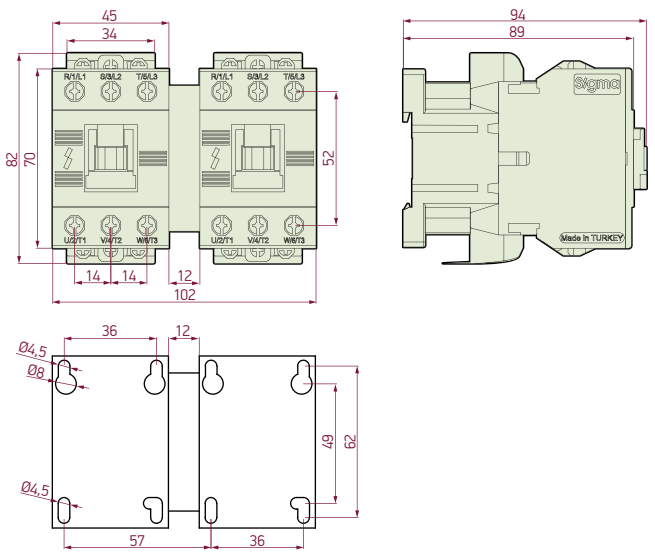
SCR 9-25



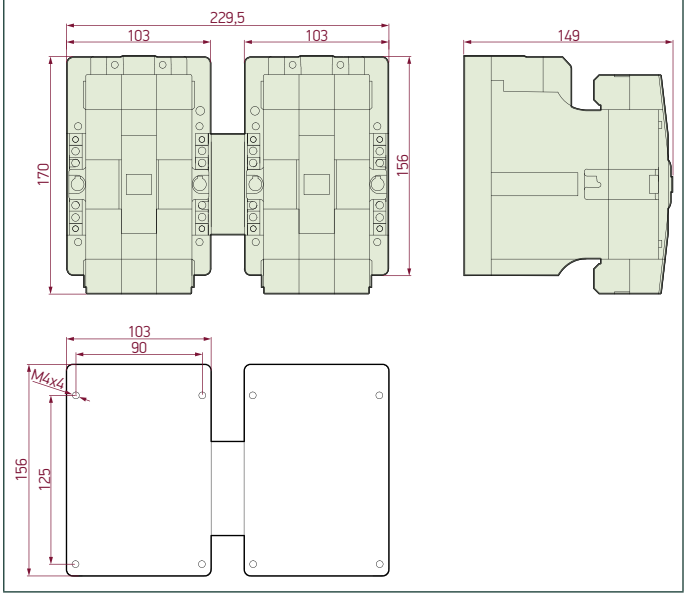
SCR 50-95



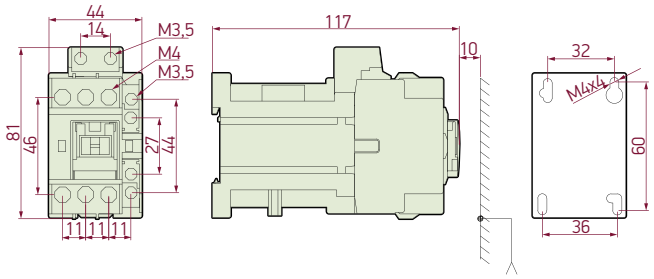
SCR 32-40



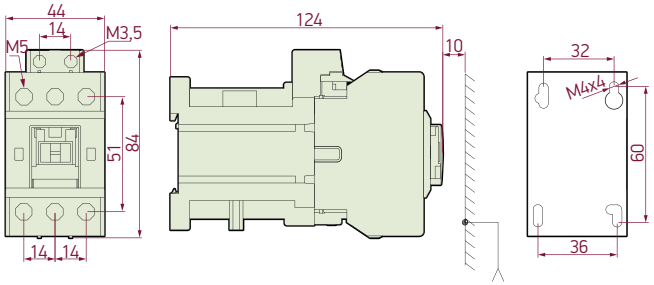
SCR 100



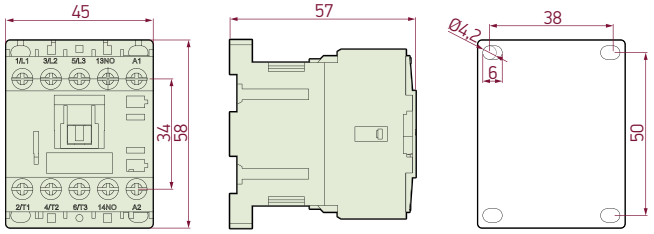
SDM 9-22



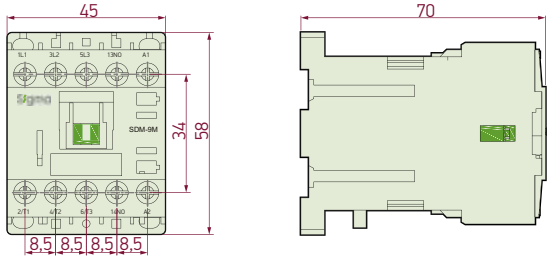
SDM 32-40



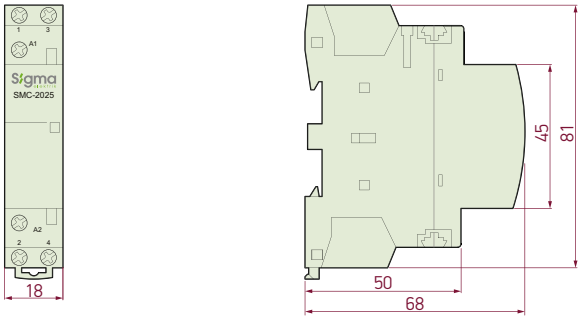
SCM 6M - SCM 16M



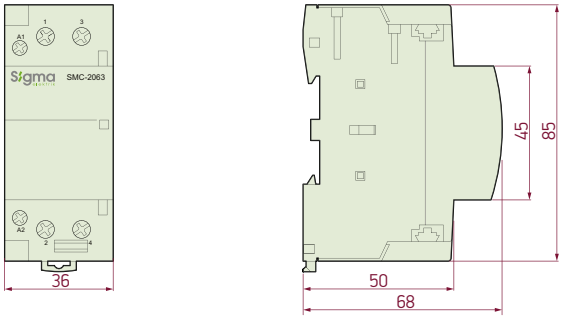
SDM 6M - SDM 16M



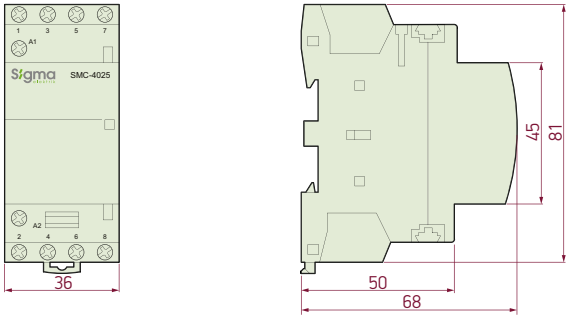
SMC-2025



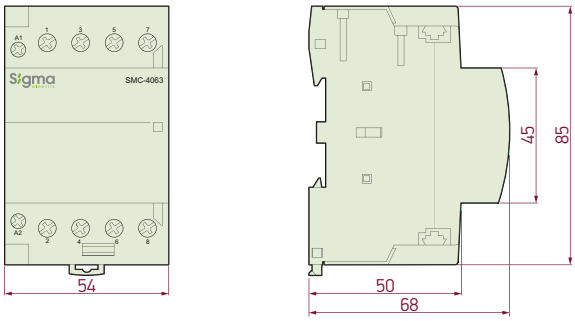
SMC-2063



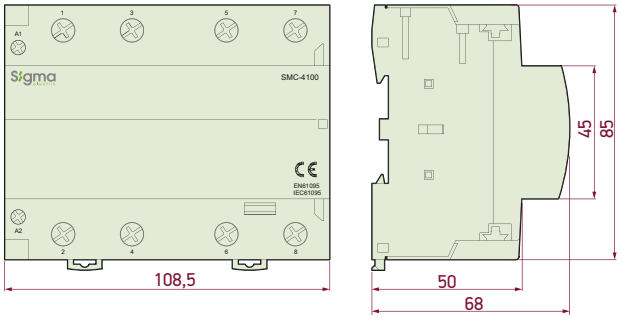
SMC-4025



SMC-4063



SMC-4100



Thermal Overload Relays



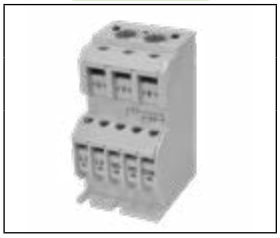




Type Code	Rated Current In (A)	Rated Current Range (A)	Type of Contactors	New Product	Pcs in a Box	Order Code
STRP-22	0.16	0.1-0.16	SCG 9 ... SCG 25		54	STRP22-016
	0.25	0.16-0.25	SCG 9 ... SCG 25		54	STRP22-025
	0.40	0.25-0.40	SCG 9 ... SCG 25		54	STRP22-040
	0.63	0.40-0.63	SCG 9 ... SCG 25		54	STRP22-063
	1	0.63-1	SCG 9 ... SCG 25		54	STRP22-1
	1.6	1-1.6	SCG 9 ... SCG 25		54	STRP22-1.6
	2.5	1.6-2.5	SCG 9 ... SCG 25		54	STRP22-2.5
	4	2.5-4	SCG 9 ... SCG 25		54	STRP22-4
	6	4-6	SCG 9 ... SCG 25		54	STRP22-6
	8	5-8	SCG 9 ... SCG 25		54	STRP22-8
	10	7-10	SCG 12 ... SCG 25		54	STRP22-10
	13	9-13	SCG 18 ... SCG 25		54	STRP22-13
	18	12-18	SCG 18 ... SCG 25		54	STRP22-18
	22	16-22	SCG 25		54	STRP22-22
STRP-40	26	18-26	SCG 32 ... SCG 40		36	STRP40-26
	36	24-36	SCG 40		36	STRP40-36
	40	28-40	SCG 40		36	STRP40-40
STRP-85	50	34-50	SCG 50 ... SCG 100		24	STRP85-50
	65	45-65	SCG 65 ... SCG 100		24	STRP85-65
	75	54-75	SCG 80 ... SCG 100		24	STRP85-75
	85	63-85	SCG 95 ... SCG 100		24	STRP85-85
STRP-100	100	65-100	SCM 100 ... SCM 125		1	STRP100-100
	125	85-125	SCM 100 ... SCM 125		1	STRP100-125
STRP-150	150	100-150	SCM 150		1	STRP150-150
STRP-220	180	120-180	SCM 250		2	STRP220-180
	240	160-240	SCM 250		2	STRP220-240
STRP-150G	150	90-150	SCG 115-SCG 150	NEW PRODUCT		STRP150-150G
STRP-220G	220	132-220	SCG 185-SCG 225	NEW PRODUCT		STRP225-220G
STRP-330G	330	200-330	SCG 265-SCG 330	NEW PRODUCT		STRP330-330G
STRP-500G	500	300-500	SCG 400-SCG 500	NEW PRODUCT		STRP500-500G
STRP-630G	630	380-630	SCG 630	NEW PRODUCT		STRP630-630G
STRK-25	0.16	0.1-0.16	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-016
	0,25	0.16-0.25	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-025
	0,4	0.25-0.40	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-040
	0,63	0.4-0.63	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-063
	1	0.63-1	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-1
	1.6	1-1.6	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-1.6
	2.5	1.6-2.5	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-2.5
	4	2.5-4	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-4
	6	4-6	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-6
	8	5-8	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-8
	10	7-10	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-10
	13	9-13	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-13
	18	12-18	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-18
	25	17-25	SCM 09 - SCM 25	NEW PRODUCT	54	STRK25-25
STRK-40	32	23-32	SCM 32 - SCM 40	NEW PRODUCT	36	STRK40-32
	40	30-40	SCM 32 - SCM 40	NEW PRODUCT	36	STRK40-40

Electronic Thermal Relays with Delay Adjustable

New Product!



Type Code	Rated Current Range (A)	Tripping Time Range	Type of Contactors	Order Code
SERP-25	3-25A	0,2-10 s	SCG 9 ... SCG 25	SERP-25
SERP-40	5-40A	0,2-10 s	SCG 32 ... SCG 40	SERP-40

The delay setting in Electronic Thermal Overload Relays with adjustable delay is used to define a delay period, preventing the motor from tripping immediately during short-term overloads. This ensures the motor is protected against temporary high currents, such as starting current, while being safely disconnected during prolonged overloads.

Thermal Overload Relays for Mini Contactors



Type Code	Rated Current In (A)	Rated Current Range (A)	Min. Order Quantity	Pcs in a Box	Order Code
STRM-16	0.16	0.1-0.16	1	80	STRM16-0.16
	0.25	0.16-0.25	1	80	STRM16-0.25
	0.40	0.25-0.40	1	80	STRM16-0.40
	0.63	0.40-0.63	1	80	STRM16-0.63
	1	0.63-1	1	80	STRM16-1
	1.6	1-1.6	1	80	STRM16-1.6
	2.5	1.6-2.5	1	80	STRM16-2.5
	4	2.5-4	1	80	STRM16-4
	6	4-6	1	80	STRM16-6
	9	6-9	1	80	STRM16-9
	13	9-13	1	80	STRM16-13
	16	12-16	1	80	STRM16-16

DIN RAIL Mounting Part for Thermal Overload Relays



Type Code	Compatible with	Pcs in a Box	Order Code
SDR-22	STRP-22	96	SDR-22
SDR-40	STRP-40	60	SDR-40
SDR-85	STRP-85	30	SDR-85

DIN RAIL Mounting Part for Mini-Thermal Overload Relay

Type Code	Compatible with	Pcs in a Box	Order Code
SDR-16	STRM-16	120	SDR-16

Utilization Categories According to IEC/EN 60947-4-1

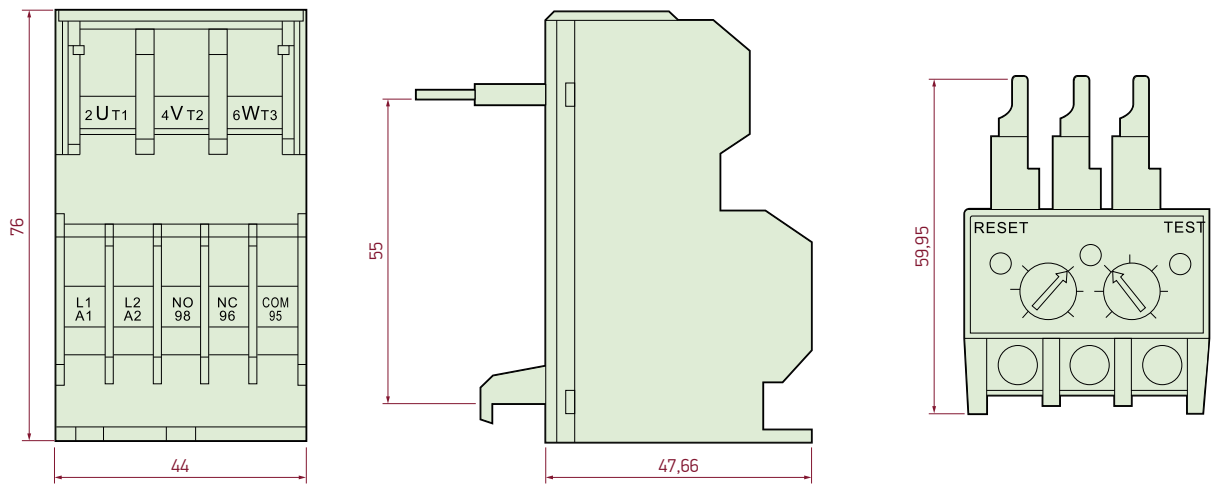
Utilization Category	Typical Use
AC-1	Non-Inductive or Slighly Inductive loads (heating systems, resistance furnace e.g..)
AC-2	Driving and/or stopping slip-ring motors. (Lifting and metallurgy applications, wire drawing machines e.g..)
AC-3	Driving Squirrel Cage asynchronous motors, motor stop in operation (Compressors, pomps, fans, valves, elevators, conveyors, air conditioner. e.g..)
AC-4	Stepping Drive Squirrel Cage asynchronous motors, reversing operation, (Printing press machines, wire drawing machines, stepping operation looms)
AC-5a	Switching of electrical discharge lamps (high or lower pressure sodium vapor lamps, mercury discharge lamps)
AC-5b	Switching of Incandescent lamps
AC-6a	Switching of Transformatores
AC-6b	Switching of Capacitor groups
AC-8a	Controlling of Hermetic type compressor's motors which equipped with Manuel-reset thermal overload relays.
AC-8b	Controlling of Hermetic type compressor's motors which equipped with Auto-reset thermal overload relays.
DC-1	Non-Inductive or lower Inductive loads
DC-3	Driving of Shunt Motors, Stepping, reversing, motor stop in operation, dynamic breaking of DC motors
DC-5	Driving of Serial Motors, Stepping, reversing, motor stop in operation, dynamic breaking of DC motors

Utilization Categories of Contactors

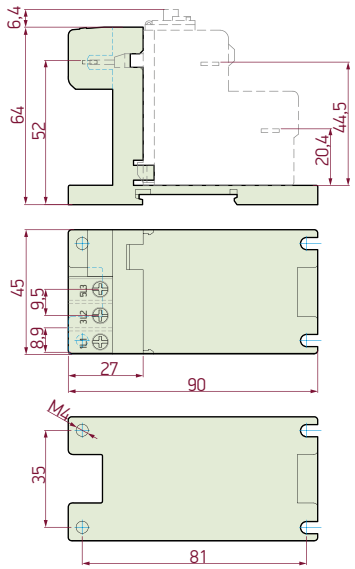
Utilization Category	Load Characteristic	Power Factor	Application Examples	Making Current (I)	Breaking Current (Ic)
AC-1	Non-Inductive loads	Cosθ=0.8	The most common example is heating system (When 3P contactors are used to control of 1P heating systems, contactor's pole should be serially connected. In case which 2 poles are serially connected, Rated Current (In) should be considered at 1,6 times of nominal current (Ie) and if 3 poles are serially connected, 2,25 times of nominal current (Ie).	Ie	Ie
AC-2	Driving Slip-Ring Motors, reversing, stepping operation	Cosθ=0.65	Lifting and metallurgy applications, wire drawing machines	2.5xIe	8xIe
AC-3	Driving Squirrel Cage asyn-chronous motors, motor stop in operation	Cosθ=0.45 for Ie<100A Cosθ=0.35 for Ie>100A	Compressors, pomps, fans, valves, elevators, conveyors, air conditioner.	6xIe	8xIe
AC-4	Driving Squirrel Cage asyn-chronous motors, reversing operation	Cosθ=0.45 for Ie<100A Cosθ=0.35 for Ie>100A	Printing press machines, wire drawing machines, stepping opera-tion looms	6xIe	8xIe

Dimensions

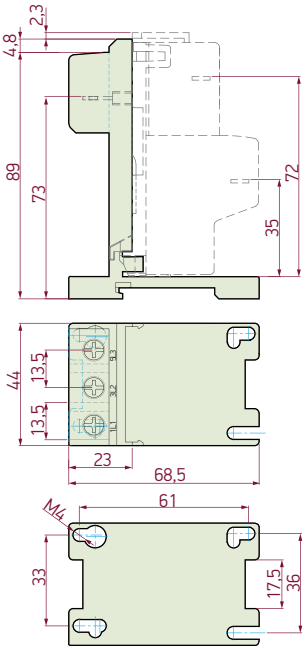
SERP 25 - SERP 40



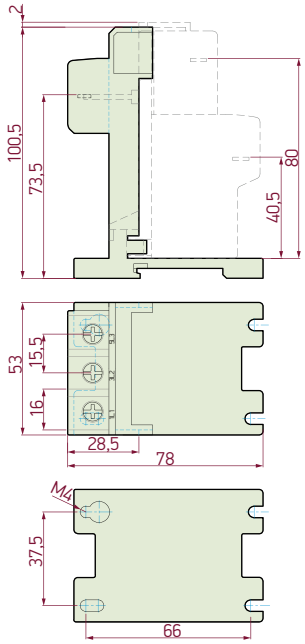
SDR-16



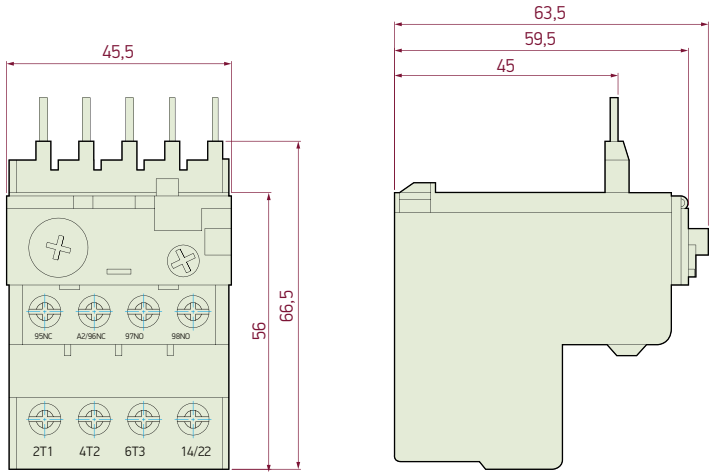
SDR-22



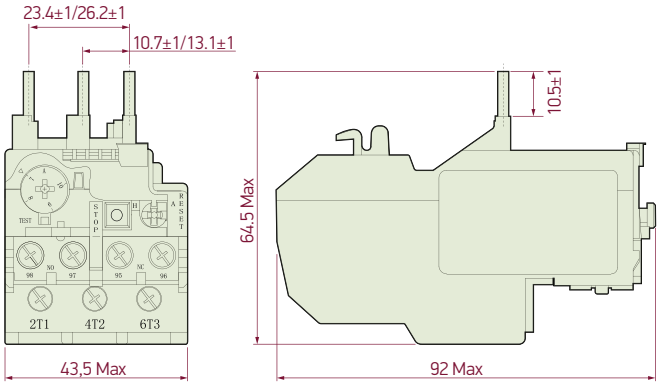
SDR-40



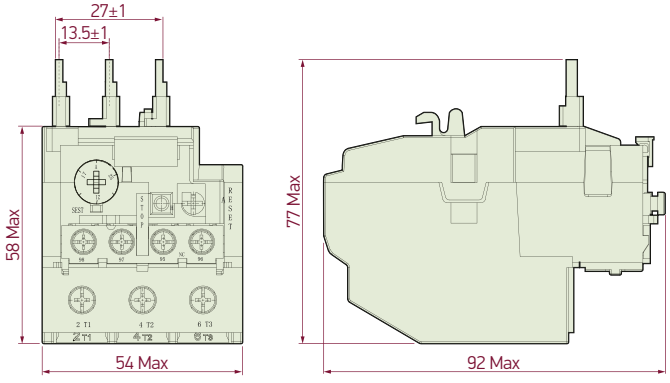
STRM-16



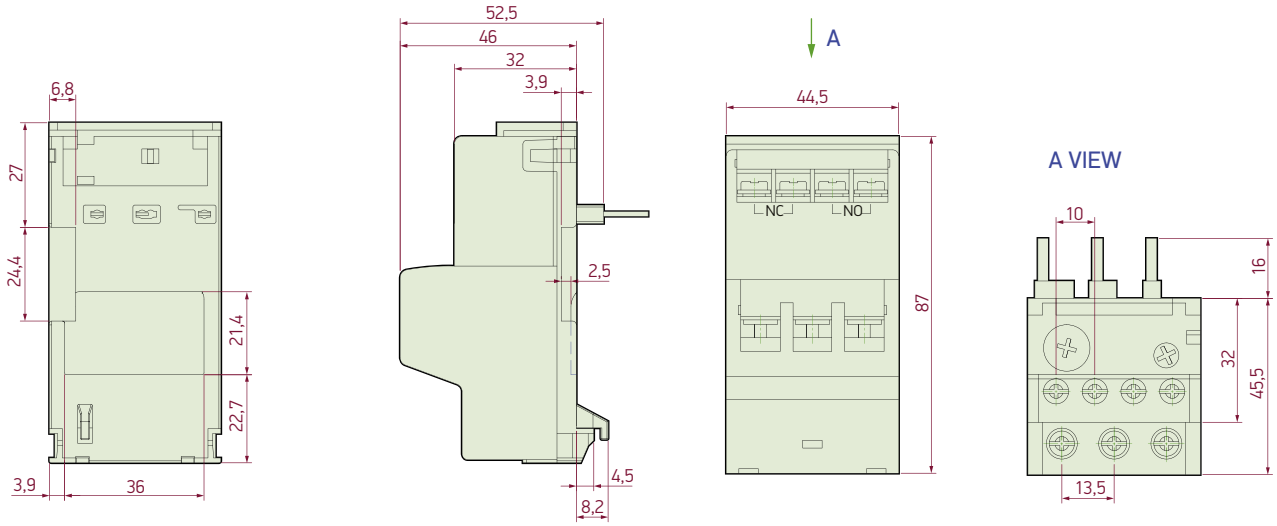
STRK-25



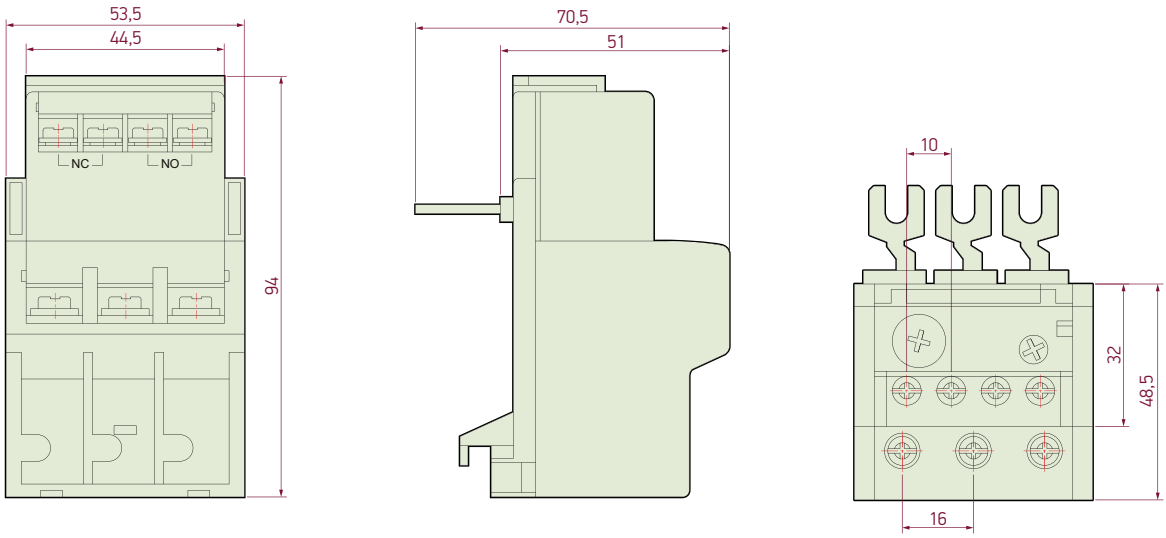
STRK-40



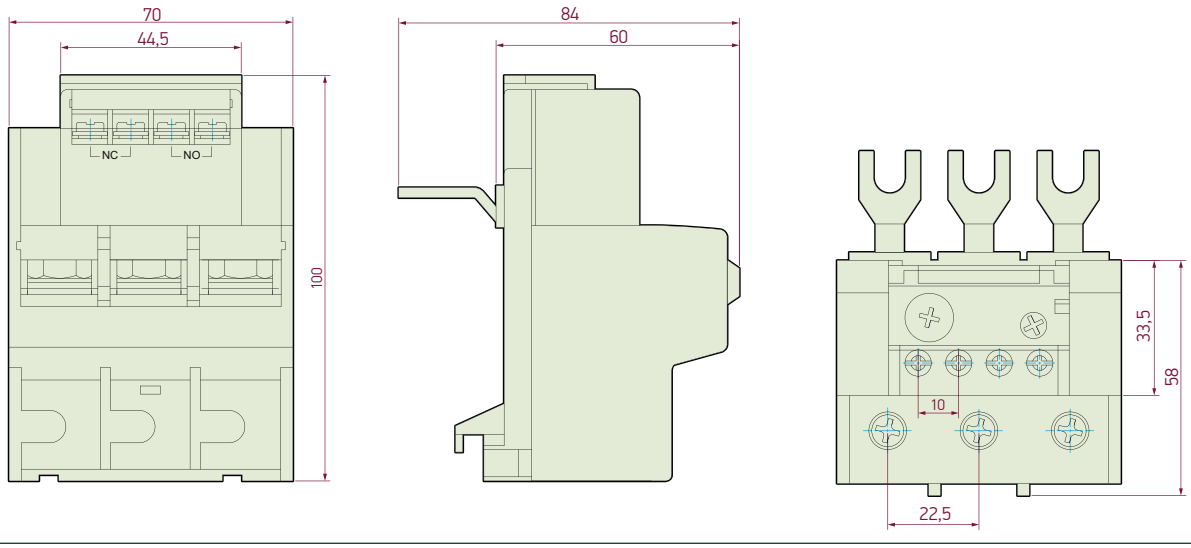
STRP 22



STRP 40



STRP 85



Sigma elektrik



ROTARY CAM **SWITCHES**

Rotary Cam Switches are mechanical switching products that work with the effect of rotation.

- 1, 2, 3 and 4P pole product options
- Continuous operating currents from 10A to 63A
- Transmitting the electrical energy needed by the motor in star-delta and direct starting circuits
- Sending current to the engine during the operation of engine control circuits
- Acting as a measurement switch in measurement circuits
- Controlling double-speed engines
- Determining the direction of energy in control circuits

0 -1 On - Off Cam Switches

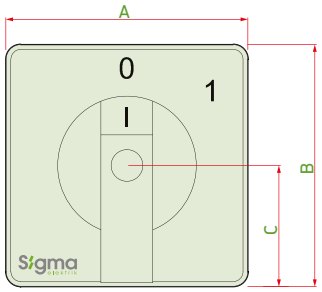


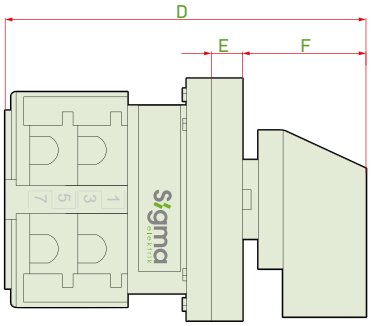
Type Code	Number of Phases	Continuous Operating Current (Ith) A	Pcs in a Box	Order Code
SPA1	1	10	50	SPA1-10
	1	16	50	SPA1-16
	1	20	50	SPA1-20
	1	25	50	SPA1-25
	1	32	20	SPA1-32
	1	40	20	SPA1-40
	1	63	24	SPA1-63
SPA2	2	10	50	SPA2-10
	2	16	50	SPA2-16
	2	20	50	SPA2-20
	2	25	50	SPA2-25
	2	32	20	SPA2-32
	2	40	20	SPA2-40
	2	63	24	SPA2-63
SPA3	3	10	24	SPA3-10
	3	16	24	SPA3-16
	3	20	24	SPA3-20
	3	25	24	SPA3-25
	3	32	24	SPA3-32
	3	40	24	SPA3-40
	3	63	24	SPA3-63
SPA4	(3 Phase + Neutral)	10	24	SPA4-10
	(3 Phase + Neutral)	16	24	SPA4-16
	(3 Phase + Neutral)	20	24	SPA4-20
	(3 Phase + Neutral)	25	24	SPA4-25
	(3 Phase + Neutral)	32	24	SPA4-32
	(3 Phase + Neutral)	40	24	SPA4-40
	(3 Phase + Neutral)	63	24	SPA4-63

Change Over Switches (1 - 0 - 2)



Type Code	Number of poles	Continuous Operating Current (Ith) A	Pcs in a Box	Order Code
SPN1	1P	16	20	SPN1-16
	1P	25	20	SPN1-25
	1P	32	20	SPN1-32
	1P	40	20	SPN1-40
	1P	63	20	SPN1-63
SPN2	2P	16	20	SPN2-16
	2P	25	20	SPN2-25
	2P	32	20	SPN2-32
	2P	40	20	SPN2-40
	2P	63	20	SPN2-63
SPN3	3P	16	20	SPN3-16
	3P	25	20	SPN3-25
	3P	32	20	SPN3-32
	3P	40	20	SPN3-40
	3P	63	20	SPN3-63





	A	B	C	D	E	F
SPA1-10 / 16 / 20	49	49	24,5	63	6,3	25
SPA1-25	49	49	24,5	66	6,3	25
SPA1-32	65	65	32,5	81	8	30
SPA1-63	65	65	32,5	90	8	30
SPN1-16	49	49	24,5	63	6,3	25
SPN1-25	49	49	24,5	66	6,3	25
SPN1-32	65	65	32,5	81	8	30
SPN1-63	65	65	32,5	90	8	30

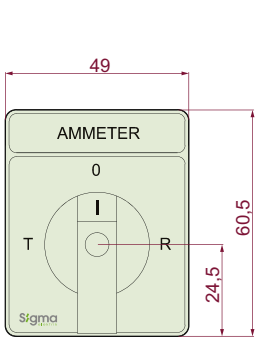
	A	B	C	D	E	F
SPA3-10 / 16 / 20	49	49	24,5	73	6,3	25
SPA3-25	49	49	24,5	80	6,3	25
SPA3-32	65	65	32,5	93,5	8	30
SPA3-63	65	65	32,5	112	8	30
SPN3-16	49	49	24,5	83	6,3	25
SPN3-25	49	49	24,5	93	6,3	25
SPN3-32	65	65	32,5	107	8	30
SPN3-63	65	65	32,5	107	8	30

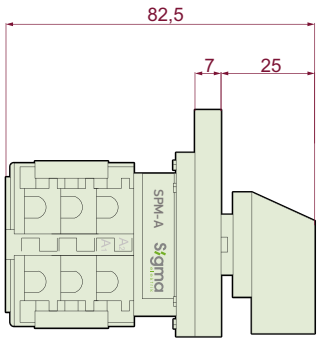
Instrument Selector Switches

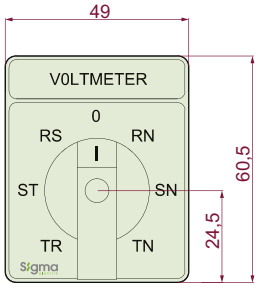


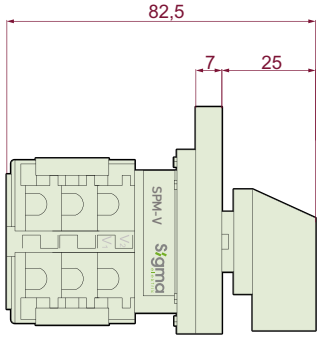
Type Code	Stages	Continuous Operating Current (Ith) A	Pcs in a Box	Order Code
SPM-A	4 Stages	20	**50**	**SPM-A**
SPM-V	4 Stages	20	**50**	**SPM-V4**
	7 Stages	20	**50**	**SPM-V7**

AMMETER	VOLTMETER









Motor Control Switches

New Product!



Type Code	Features	Continuous Operating Current (Ith) A	Pcs in a Box	Order Code
SPY-3	Star-delta switch (0-λ-Δ)	16	50	SPY3-16
	Star-delta switch (0-λ-Δ)	25	50	SPY3-25



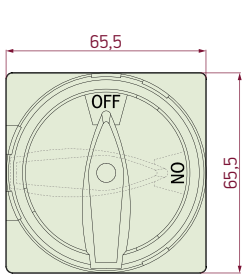
SPR-1	Single-phase invertor switch (Right-left)	16	50	SPR1-16
	Single-phase invertor switch (Right-left)	20	50	SPR1-20
	Single-phase invertor switch (Right-left)	25	50	SPR1-25
SPR-3	Three-phase invertor switch (Right-left)	16	50	SPR3-16
	Three-phase invertor switch (Right-left)	20	50	SPR3-20
	Three-phase invertor switch (Right-left)	25	50	SPR3-25

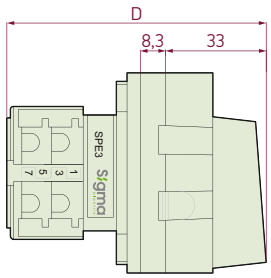
Locking Safety Switches (Red - Yellow)



Type Code	Number of Phase	Continuous Operating Current (Ith) A	Pcs in a Box	Order Code
SPE3	3P	16	20	SPE3-16
	3P	20	20	SPE3-20
	3P	25	20	SPE3-25
	3P	32	20	SPE3-32
	3P	40	20	SPE3-40
	3P	63	20	SPE3-63
	3P	80	20	SPE3-80

SPE3





Order Code	D
SPE3-16	85
SPE3-20	85
SPE3-25	93
SPE3-32	98
SPE3-63	115

Sigma elektrik



MOTOR PROTECTION **SWITCHES**

Motor protection switches are electrical control, command and protection products designed to protect electric motors against overload current (thermal current), short circuit currents and to manually activate and deactivate the electric motor.

- 10kA, 15kA and 100kA short circuit breaking capacity
- Rated current from 0.16A to 80A
- Possibility to use padlock to fix in OFF position
- Terminals protected against finger contact
- Design compatible with accessories (auxiliary contact, low voltage coil, trip coil)

Motor Protection Switches



		SMK-25	SMK-80	SMP-25
Number of poles		3	3	3
Rated insulation voltage	Ui (V)	690	690	690
Rated impulse withstand voltage	Uimp (kV)	6	6	6
Electrical life (No. operation)	Op.	100.000	80.000	100.000
Mechanical life (No. operation)	Op.	100.000	100.000	100.000
Compatibility		AC-3	AC-3	AC-3
Rated operating voltage	Ue (V)	690	690	690
Rated operating frequency	Hz	50/60	50/60	50/60
Utilization category		A	A	A
Contamination degree		3	3	3
Vibration strength		5 g (from 5 to 150 Hz)	5 g (from 5 to 150 Hz)	5 g (from 5 to 150 Hz)
Maximum ambient operating temperature	°C	From -20 ... + 60°C (from -4 ... +140°F)	From -20 ... + 60°C (from -4 ... +140°F)	From -20 ... + 60°C (from -4 ... +140°F)
Maximum ambient storage temperature	°C	From -40 ... + 80°C) (from -40 ... +176°F)	From -40 ... + 80°C) (from -40 ... +176°F)	From -40 ... + 80°C) (from -40 ... +176°F)
Relative Humidity	%	95	95	95
Flame resistance	°C	960°C (1760°F)	960°C (1760°F)	960°C (1760°F)
Tightening torque	Nm	1,2	2	1,2
Auxiliary contact		Yes	Yes	Yes
Undervoltage release		Yes	Yes	Yes
Remote tripping coil		Yes	Yes	Yes
Container		Yes	Yes	Yes
Contactor combination block		Yes	Yes	Yes
Standards		EN 60947-4-1, 60947-2	EN 60947-4-1, 60947-2	EN 60947-4-1, 60947-2



Type Code	Rated Power at 400V AC3 (kW)	Rated Current Range (A)	Rated Short Circuit Breaking Capacity at 400V (Icu)	Min. Order Quantity	Pcs in a Box	Order Code
SMK-25	0,02	0.1-0.16	100	1	48	SMK25-0.16
	0,06	0.16-0.25	100	1	48	SMK25-0.25
	0,09	0.25-0.4	100	1	48	SMK25-0.4
	0,12	0.4-0.63	100	1	48	SMK25-0.63
	0,25	0.63-1	100	1	48	SMK25-1
	0,37	1-1,6	100	1	48	SMK25-1.6
	0,75	1.6-2.5	100	1	48	SMK25-2.5
	1,5	2,5-4	100	1	48	SMK25-4
	2,2	4-6,3	100	1	48	SMK25-6.3
	4	6-10	100	1	48	SMK25-10
	5,5	9-14	15	1	48	SMK25-14
	7,5	13-18	15	1	48	SMK25-18
	9	17-23	15	1	48	SMK25-23
	11	20-25	15	1	48	SMK25-25
	15	24-32	10	1	48	SMK25-32
SMK-80	18,5	25-40	15	1	24	SMK80-40
	22	37-50	15	1	24	SMK80-50
	30	40-63	15	1	24	SMK80-63
	40	56-80	15	1	24	SMK80-80

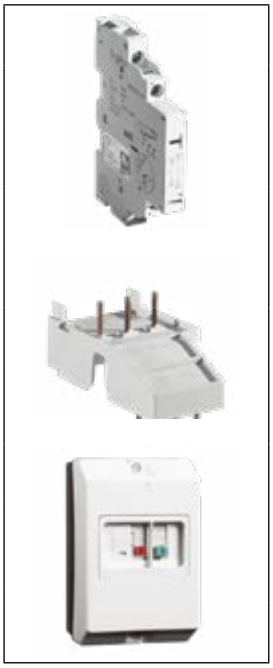
SMP Series Thermal Magnetic Characteristic Motor Protection Switches

New Product!



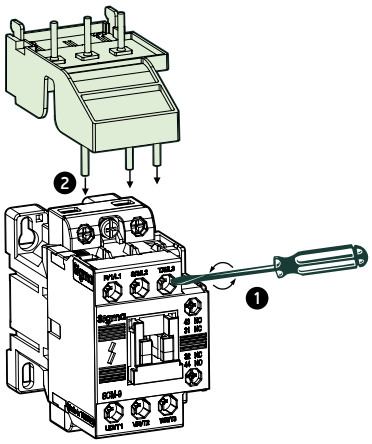
Type Code	Rated Power at 400V AC3 (kW)	Rated Current Range (A)	Rated Short Circuit Breaking Capacity at 400V (Icu)	Min. Order Quantity	Pcs in a Box	Order Code
SMP-25	0,02	0,1-0,16	100	1	48	SMP25-0.16
	0,06	0,16-0,25	100	1	48	SMP25-0.25
	0,09	0,25-0,4	100	1	48	SMP25-0.4
	0,12	0,4-0,63	100	1	48	SMP25-0.63
	0,25	0,63-1	100	1	48	SMP25-1
	0,37	1-1,6	100	1	48	SMP25-1.6
	0,75	1,6-2,5	100	1	48	SMP25-2.5
	1,5	2,5-4	100	1	48	SMP25-4
	2,2	4-6,3	100	1	48	SMP25-6.3
	4	6-10	100	1	48	SMP25-10
	5,5	9-14	15	1	48	SMP25-14
	7,5	13-18	15	1	48	SMP25-18
	9	17-23	15	1	48	SMP25-23
	11	20-25	15	1	48	SMP25-25
	15	24-32	15	1	48	SMP25-32

Accessories for Motor Protection Switches

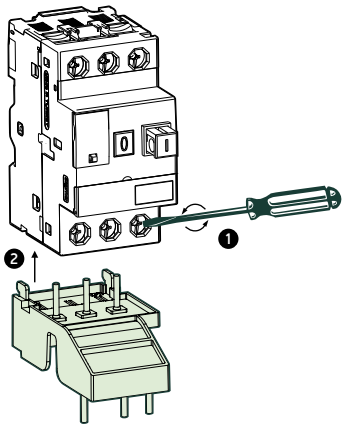


Type Code	Description	Suitable Motor Protection Switch	Order Code
SMK25-F11	Auxiliary Contact 1NO+1NC (Front Mounting)	SMK-25 / SMP-25	SMK25-F11
SMK25-F20	Auxiliary Contact 2NO (Front Mounting)	SMK-25 / SMP-25	SMK25-F20
SMK25-L11	Auxiliary Contact 1NO+1NC (Side Mounting)	SMK-25 / SMP-25	SMK25-L11
SMK25-L20	Auxiliary Contact 2NO (Side Mounting)	SMK-25 / SMP-25	SMK25-L20
SMK80-L11	Auxiliary Contact 1NO+1NC (Side Mounting)	SMK-80	SMK80-L11
SMK80-L20	Auxiliary Contact 2NO (Side Mounting)	SMK-80	SMK80-L20
SMK25-DG	Undervoltage Release 380V	SMK-25 / SMP-25	SMK25-DG
SMK25-AB	Shunt Trip Release 230V	SMK-25 / SMP-25	SMK25-AB
SMK25-A	Combination Block for Contactor (SCM9-40)	SMK-25 / SMP-25	SMK25-A
SMK25-K	Widthclosure for Motor Protection Switch	SMK-25 / SMP-25	SMK25-K

SMK25-A - Mounting

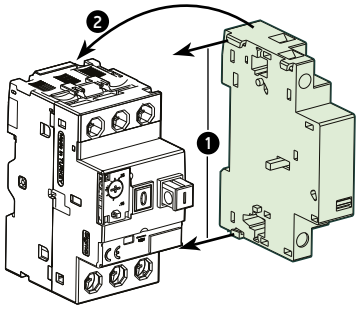


1. *Loosen the main contactor contact's screws*
2. *Mount the joint adapter to the contactor*



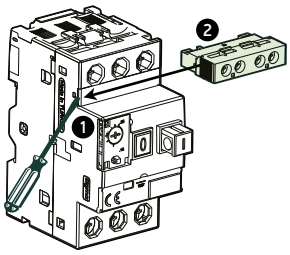
1. *Loosen motor protection switch main contact's screws*
2. *Install and mount SMK25-A's accessory combiner tab into the motor protection switch's housing, as indicated by the arrow*

SMK25-DG, SMK25-AB - Mounting



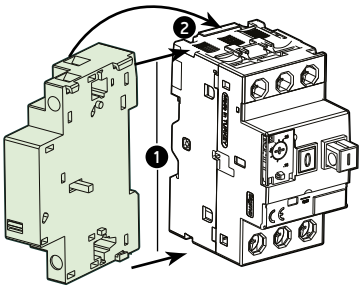
1. *Install the both SMK 25-DG and SMK25-AB auxiliary contacts tabs in the slot on the product right side as indicated by the arrow*
2. *Slide the blue locking tab into the slot and lock it, which is under the auxiliary contacts.*

SMK25-F11, SMK25-F20 - Mounting



1. *Gently push the locking tab and remove the accessory cover by pulling it upwards. As indicated by the arrow*
2. *Insert the auxiliary contact into its housing and push it into its space.*

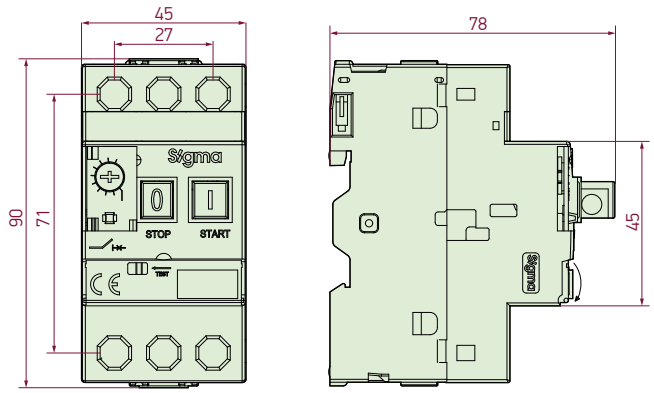
SMK25-L11, SMK25-L20 - Mounting



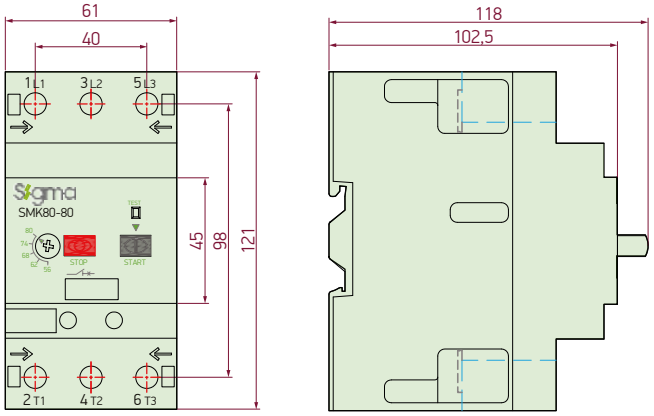
1. *At the first step: insert the securing tab into the slot on the left side of the SMK25-L11 and SMK25-L20 as indicated by the arrow.*
2. *Insert the blue locking tab into its housing and lock it*

Dimensions

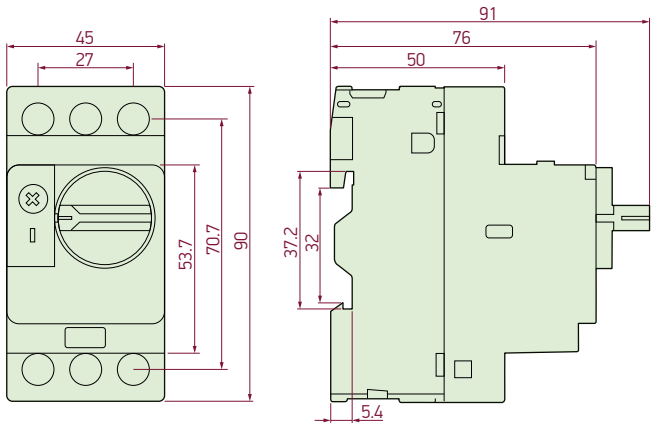
SMK-25



SMK-80



SMP-25



Motor Starters with Widthclosure (DOL)



Type Code	Rated Motor Power (kW) 380V	Setting Range (A)	Coil Voltage (V) AC	Pcs in a Box	Order Code
SMS009230	0.37	1-1.6	230	8	SMS090037
	0.75	1.6-2.5	230	8	SMS090075
	1.5	2.5-4	230	8	SMS090115
	2.2	4-6	230	8	SMS090220
	3	5-8	230	8	SMS090300
	4	7-10	230	8	SMS090400
SMS012230	5.5	9-13	230	8	SMS0120550
SMS018230	7.5	12-18	230	8	SMS0180750
SMS025230	11	16-22	230	8	SMS0251110
SMS032230	15	24-36	230	4	SMS0321150
SMS040230	18.5	28-40	230	4	SMS0401185
SMS050230	22	34-50	230	1	SMS0501220
SMS065230	30	45-65	230	1	SMS0651300
SMS080230	37	54-75	230	1	SMS0801370
SMS095230	45	63-85	230	1	SMS0951450

Sigma
elektrik





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LV CURRENT
TRANSFORMERS

Current transformers are measurement transformers used to measure the current passing through the circuit when high currents cannot be measured directly by measuring instruments.

Sigma current transformers convert primary currents from 20A to 5000A into secondary current (5A value) with a high accuracy class, while offering both space-saving and economic solutions with their very compact dimensions.

- Primary currents between 20A - 5000A
- Class 0.2 - 0.2s- 0.5 - 0.5s - 1 - 3 measurement accuracy
- High reliability with test report of each product
- Product variety including split core, mini, micro, with and without busbar, round, narrow and summation types
- Sealable models
- Special production possibility in accordance with project demands

SMT30 Round Type Current Transformersc / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	1,5 - 5VA
Rated primary current	From 50A to 300A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 50A to 300A and they have sealable terminal cover.

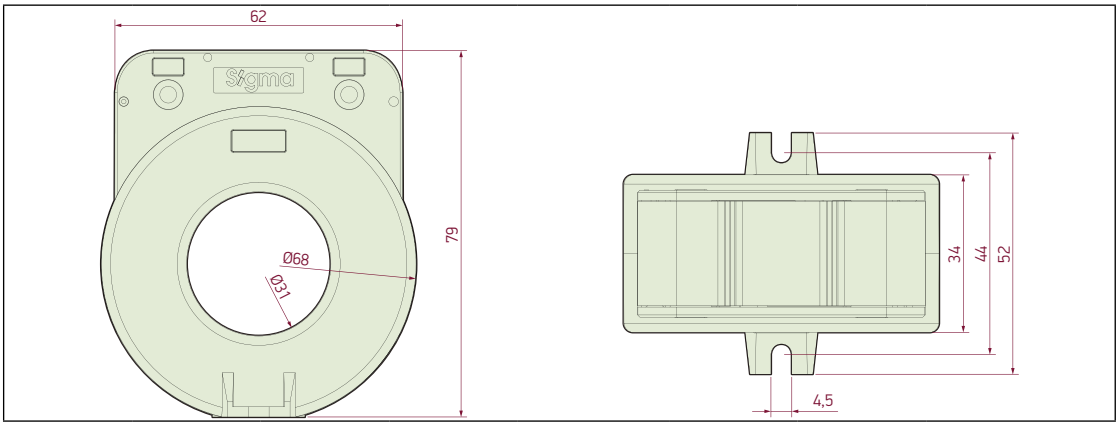
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SMT30	50	1,5	3	30	3	51	SMT0300050301
	60	2,5	3	30	3	51	SMT0300060302
	75	2,5	3	30	3	51	SMT0300075302
	100	2,5	3	30	3	51	SMT0300100302
	125	2,5	3	30	3	51	SMT0300125302
	150	2,5	3	30	3	51	SMT0300150302
	200	2,5	3	30	3	51	SMT0300200302
	250	2,5	0,5	30	3	51	SMT0300250502
	300	5	0,5	30	3	51	SMT0300300505



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

SMT40 Round Type Current Transformersc / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	2,5 - 5VA
Rated primary current	From 100A to 600A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 100A to 600A and they have sealable terminal cover.

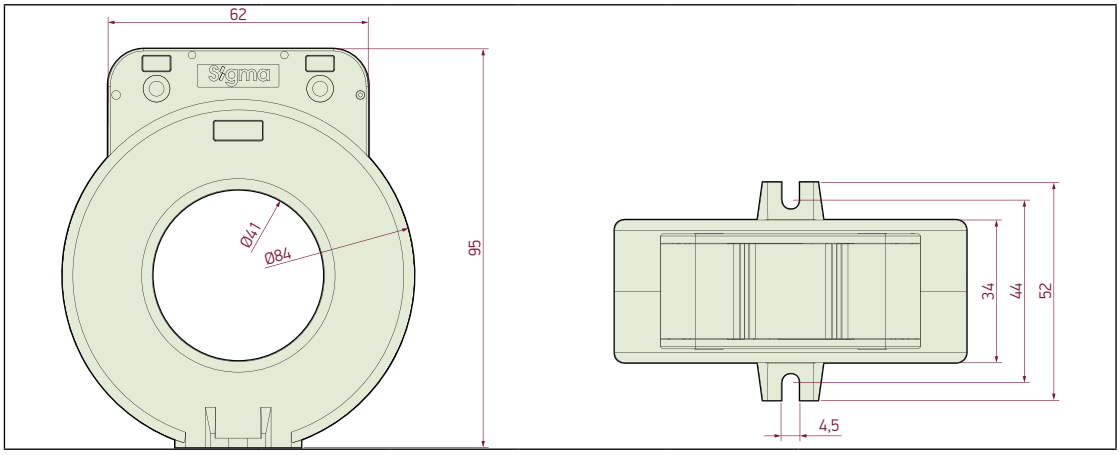
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SMT40	100	2,5	3	40	3	42	SMT0400100302
	150	2,5	3	40	3	42	SMT0400150302
	200	2,5	3	40	3	42	SMT0400200302
	400	5	0,5	40	3	42	SMT0400400505
	500	5	0,5	40	3	42	SMT0400500505
	600	5	0,5	40	3	42	SMT0400600505



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

SMT70 Round Type Current Transformersc / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	40 kA / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	5 - 10VA
Rated primary current	From 800A to 1500A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 800A to 1500A and they have sealable terminal cover.

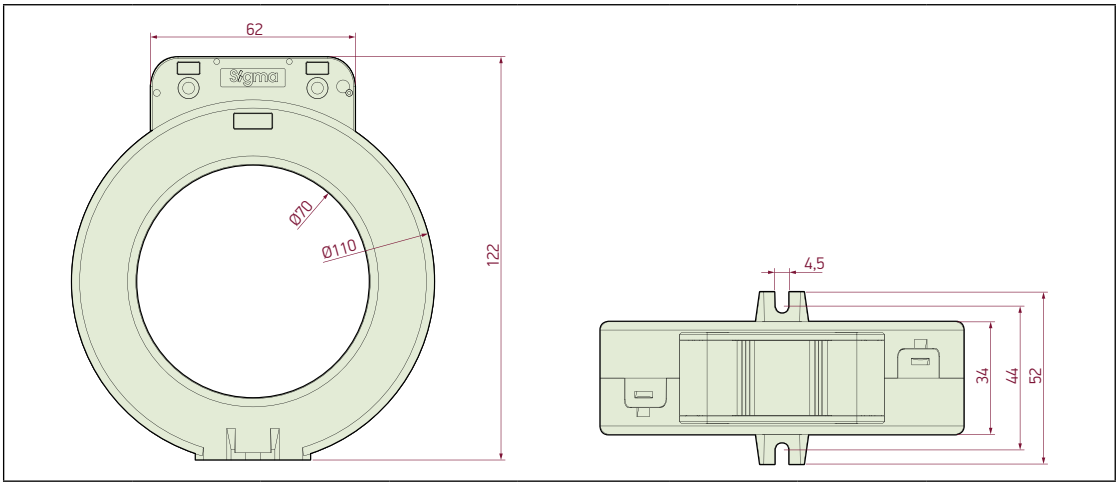
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SMT70	800	5	0,5	70	3	42	SMT0700800505
	1000	10	0,5	70	3	42	SMT0701000510
	1200	10	0,5	70	3	42	SMT0701200510
	1250	10	0,5	70	3	42	SMT0701250510
	1500	10	0,5	70	3	42	SMT0701500510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

SMT100 Round Type Current Transformersc / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	40 kA / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	5 - 15VA
Rated primary current	From 800A to 2500A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 800A to 2500A and they have sealable terminal cover.

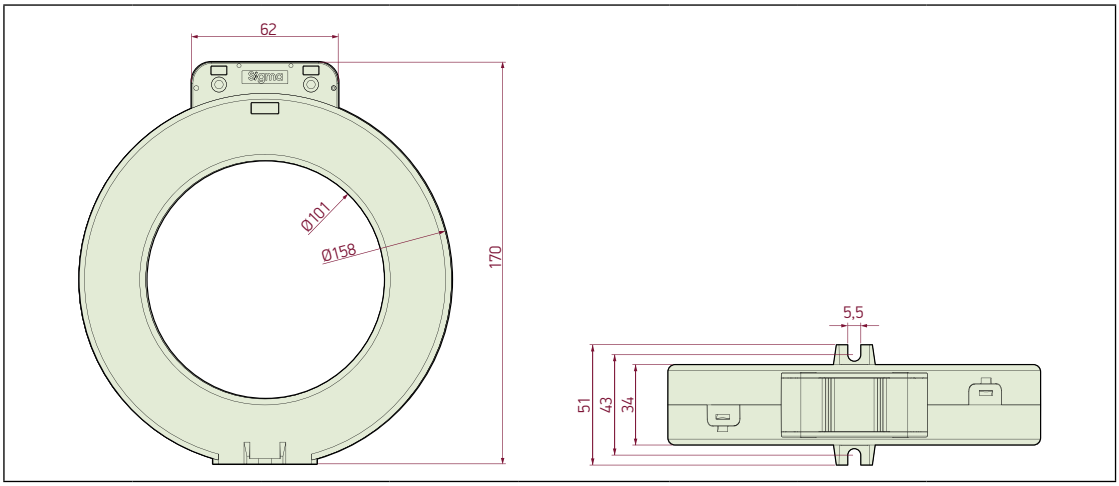
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SMT100	800	5	0,5	100	3	42	SMT1000800505
	1000	5	0,5	100	3	42	SMT1001000505
	1250	10	0,5	100	3	42	SMT1001250510
	1600	15	0,5	100	3	42	SMT1001600515
	2000	15	0,5	100	3	42	SMT1002000515
	2500	15	0,5	100	3	42	SMT1002500515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

SMT125 Round Type Current Transformersc / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	40 kA / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	10 - 30VA
Rated primary current	From 2000A to 5000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 2000A to 5000A and they have sealable terminal cover.

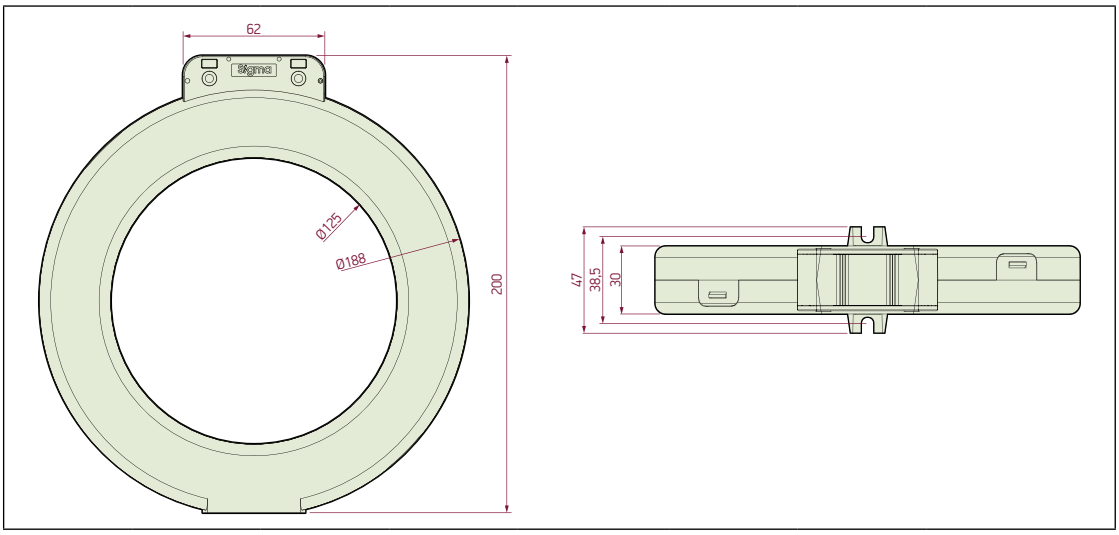
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SMT125	2000	15	0,5	125	3	42	SMT1252000515
	2500	15	0,5	125	3	42	SMT1252500515
	3000	15	0,5	125	3	42	SMT1253000515
	4000	15	0,5	125	3	42	SMT1254000515
	5000	30	0,5	125	3	42	SMT1255000530



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S20MC Series Current Transformer Mountable on DIN Rail / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100xIn / 1 sn.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	2,5VA
Rated primary current	160A-250A-400A-630A
Rated secondary current	1A

Note: Additional information is provided upon request.

Product Identification

S20MC type current transformers is available 160A, S20MD type current transformers are available 250, 400, 630A primary current rates.They can be sealed if required. Nickel coated brass is used for secondary transformer outputs.

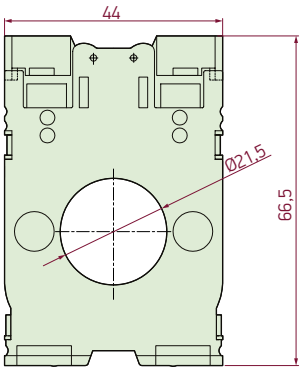
Application

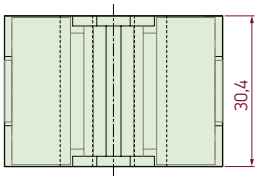
It is used for energy measurement with Sigma Vertical Type fuse switch disconnectors. It is suitable for measurement purposes in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S20MC	30	1	3	Ø20	3	51	S20MC00300301
	40	1	3	Ø20	3	51	S20MC00400301
	50	1,5	1	Ø20	3	51	S20MC00500115
	60	1,5	1	Ø20	3	51	S20MC00600115
	75	1,5	1	Ø20	3	51	S20MC00750115
	80	1,5	1	Ø20	3	51	S20MC00800115
	100	2,5	1	Ø20	3	51	S20MC01000125
	125	2,5	1	Ø20	3	51	S20MC01250125
	150	2,5	1	Ø20	3	51	S20MC01500125
	200	2,5	1	Ø20	3	51	S20MC02000125
	250	5	1	Ø20	3	51	S20MC02500105
	300	5	1	Ø20	3	51	S20MC03000105

Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.





S20M-S20ML Series Current Transformers Mountable on DIN Rail / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	3,75 - 20VA
Rated primary current	From 40A to 150A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

Compact type current transformers are suitable for primary current from 40A to 150A and they have sealable terminal cover.

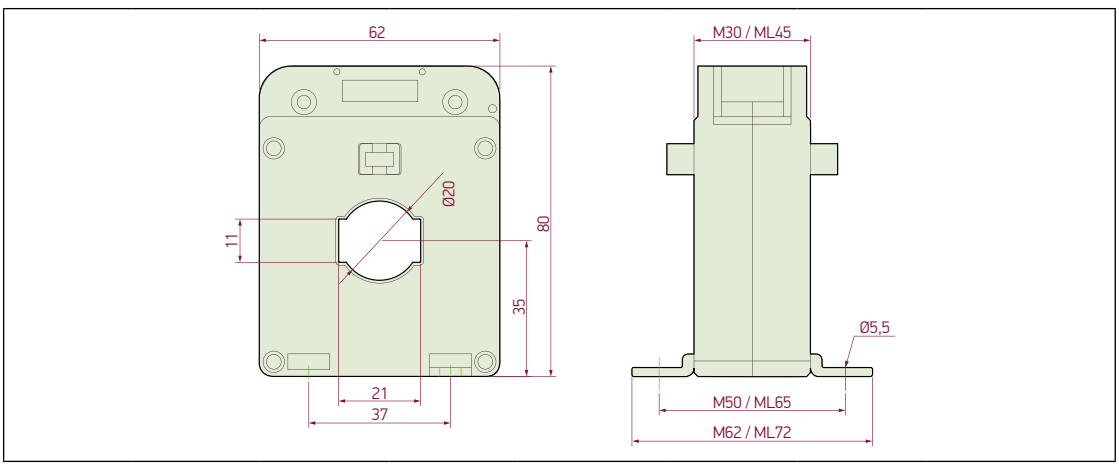
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S20M	60	1,5	1	20x10	3	51	SM2000601015
	80	2,5	1	20x10	3	51	SM2000801002
	100	2,5	1	20x10	3	51	SM2001001002
	125	2,5	1	20x10	3	51	SM2001251002
S20ML	40	1,5	1	20x10	3	51	SM2000401005
	60	2,5	1	20x10	3	51	SM2000601025
	75	2,5	1	20x10	3	51	SM2000751002
	80	2,5	1	20x10	3	51	SM2000801002
	100	5	1	20x10	3	51	SM2001001005
	125	5	1	20x10	3	51	SM2001251005
	150	5	1	20x10	3	51	SM2001501005



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S25B Series Bar Type Current Transformer / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	3,75 - 20VA
Rated primary current	From 20A to 150A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

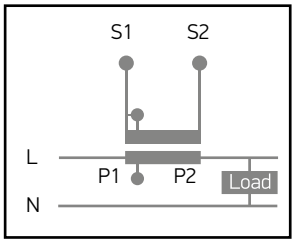
Compact type current transformers are suitable for primary current from 20A to 150A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

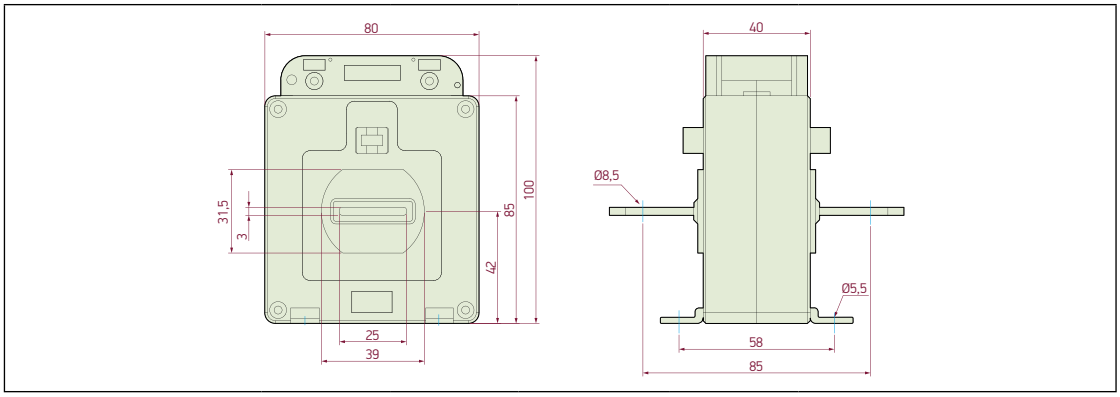




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S25B	20	10	0,5	with bus bar	3	30	SS2500200510
	25	10	0,5	with bus bar	3	30	SS2500250510
	30	10	0,5	with bus bar	3	30	SS2500300510
	40	10	0,5	with bus bar	3	30	SS2500400510
	50	10	0,5	with bus bar	3	30	SS2500500510
	60	10	0,5	with bus bar	3	30	SS2500600510
	75	10	0,5	with bus bar	3	30	SS2500750510
	100	10	0,5	with bus bar	3	30	SS2501000510
	125	10	0,5	with bus bar	3	30	SS2501250510
	150	10	0,5	with bus bar	3	30	SS2501500510

S25B Series Sealed Type Current Transformer / 5A

S25B	20	10	0,5	with bus bar	3	30	MS2500200510
	25	10	0,5	with bus bar	3	30	MS2500250510
	30	10	0,5	with bus bar	3	30	MS2500300510
	40	10	0,5	with bus bar	3	30	MS2500400510
	50	10	0,5	with bus bar	3	30	MS2500500510
	60	10	0,5	with bus bar	3	30	MS2500600510
	75	10	0,5	with bus bar	3	30	MS2500750510
	100	10	0,5	with bus bar	3	30	MS2501000510
	125	10	0,5	with bus bar	3	30	MS2501250510
	150	10	0,5	with bus bar	3	30	MS2501500510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s.
V) Please request a price for 1A secondary.

S30-S30L Series Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	2,5 - 20VA
Rated primary current	From 75A to 200A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

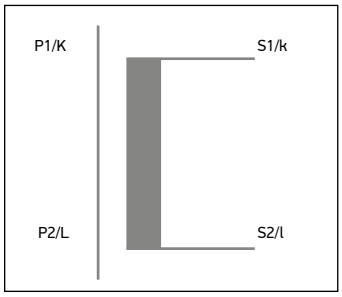
Compact type current transformers are suitable for primary current from 75A to 200A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

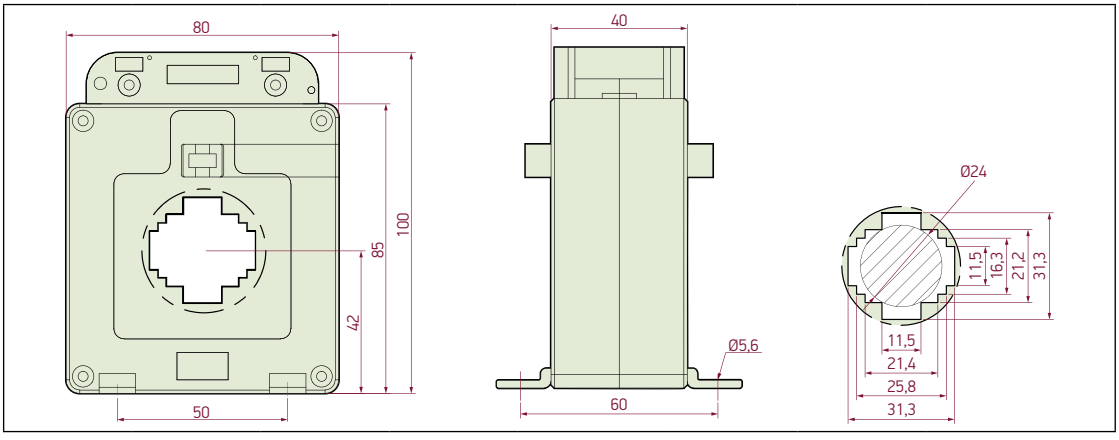




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S30	75	2,5	1	30x10	3	42	SS3000750102
	100	5	1	30x10	3	42	SS3001001005
	150	5	0,5	30x10	3	42	SS3001500505
	200	10	0,5	30x10	3	42	SS3002000510
S30L	100	5	0,5	30x10	3	30	SS3001000505
	125	5	0,5	30x10	3	30	SS3001250505
	150	10	0,5	30x10	3	30	SS3001500510

S30 / S30L Series Sealed Type Current Transformer / 5A

S30	200	10	0,5	30x10	3	42	MS3002000510
S30L	150	10	0,5	30x10	3	30	MS3001500510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s..
V) Please request a price for 1A secondary.

S30M-S30ML Series Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	1,25 - 10VA
Rated primary current	From 75A to 200A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

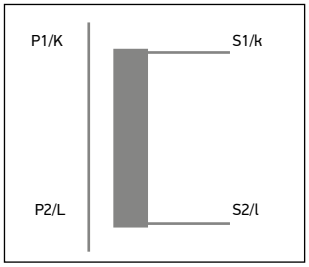
Compact type current transformers are suitable for primary current from 50A to 600A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

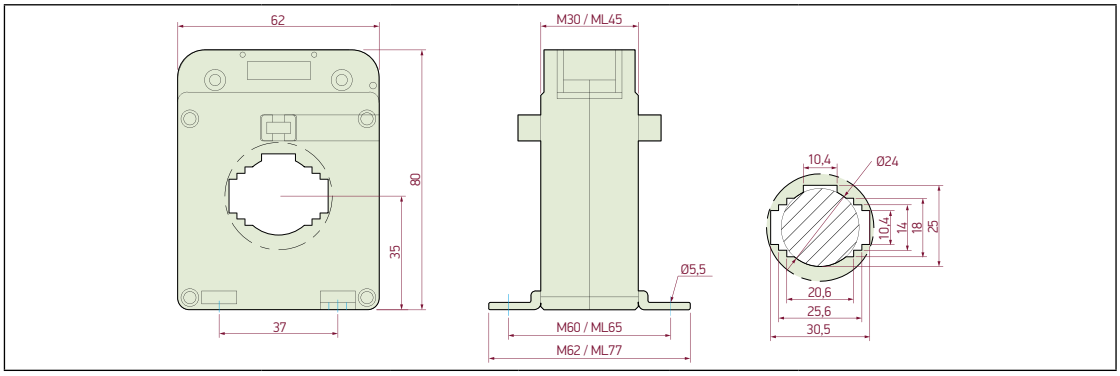




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S30M	100	1,5	0,5	30x10	3	51	SM3001001505
	125	2,5	0,5	30x10	3	51	SM3001250502
	150	2,5	0,5	30x10	3	51	SM3001500502
	200	2,5	0,5	30x10	3	51	SM3002000502
	250	5	0,5	30x10	3	51	SM3002500505
S30ML	50	1,5	1	30x10	3	51	SM3000501005
	60	1,5	1	30x10	3	51	SM3000601005
	75	1,5	1	30x10	3	51	SM3000751005
	100	2,5	1	30x10	3	51	SM3001001002
	150	5	0,5	30x10	3	51	SM3001500505
	200	5	0,5	30x10	3	51	SM3002000505
	250	10	0,5	30x10	3	51	SM3002500510
	300	10	0,5	30x10	3	51	SM3003000510
	400	10	0,5	30x10	3	51	SM3004000510
	500	10	0,5	30x10	3	51	SM3005000510
	600	10	0,5	30x10	3	51	SM3006000510

S30ML Series Sealed Type Current Transformer / 5A

S30ML	250	10	0,5	30x10	3	51	MM3002500510
	300	10	0,5	30x10	3	51	MM3003000510
	400	10	0,5	30x10	3	51	MM3004000510
	500	10	0,5	30x10	3	51	MM3005000510
	600	10	0,5	30x10	3	51	MM3006000510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s.
V) Please request a price for 1A secondary.

S40 Series Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	2.5 - 30VA
Rated primary current	From 300A to 600A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

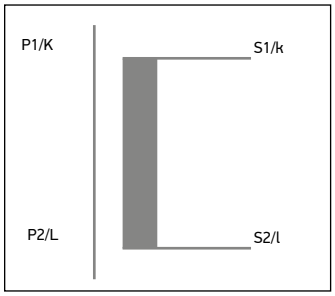
Compact type current transformers are suitable for primary current from 300A to 600A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

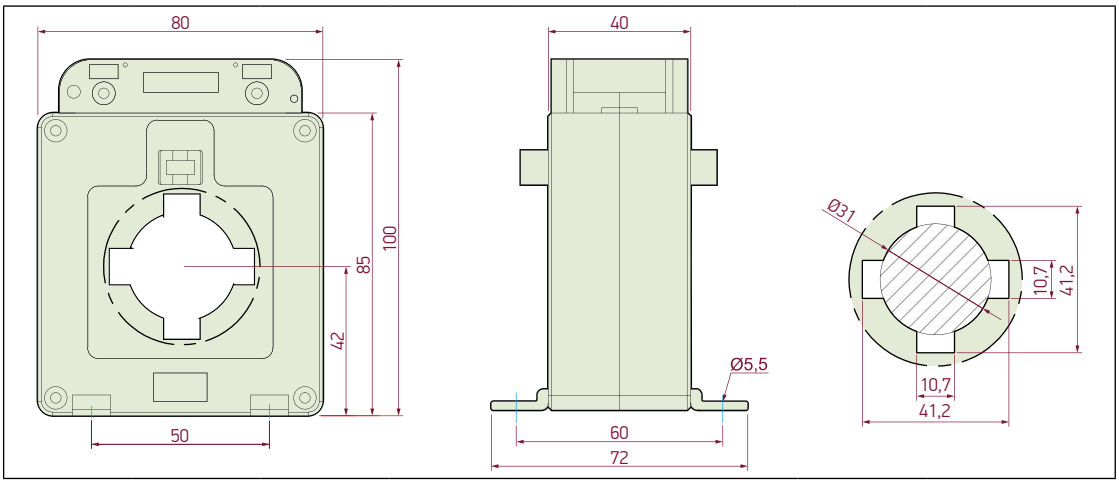




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S40	300	10	0,5	40x10	3	42	SS4003000510
	400	10	0,5	40x10	3	42	SS4004000510
	500	10	0,5	40x10	3	42	SS4005000510
	600	10	0,5	40x10	3	42	SS4006000510

S40 Series Sealed Type Current Transformer / 5A

S40	300	10	0,5	40x10	3	42	MS4003000510
	400	10	0,5	40x10	3	42	MS4004000510
	500	10	0,5	40x10	3	42	MS4005000510
	600	10	0,5	40x10	3	42	MS4006000510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s
V) Please request a price for 1A secondary.

S50 Series Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	2,5 - 30VA
Rated primary current	From 500A to 1000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

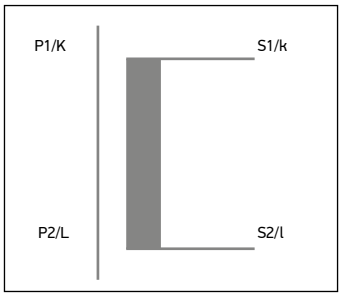
A range of compact low cost moulded case current transformers suitable for primary currents from 500A to 1000A with built in sealable terminal covers.

Application

Fit for measurement applications in AC power systems.

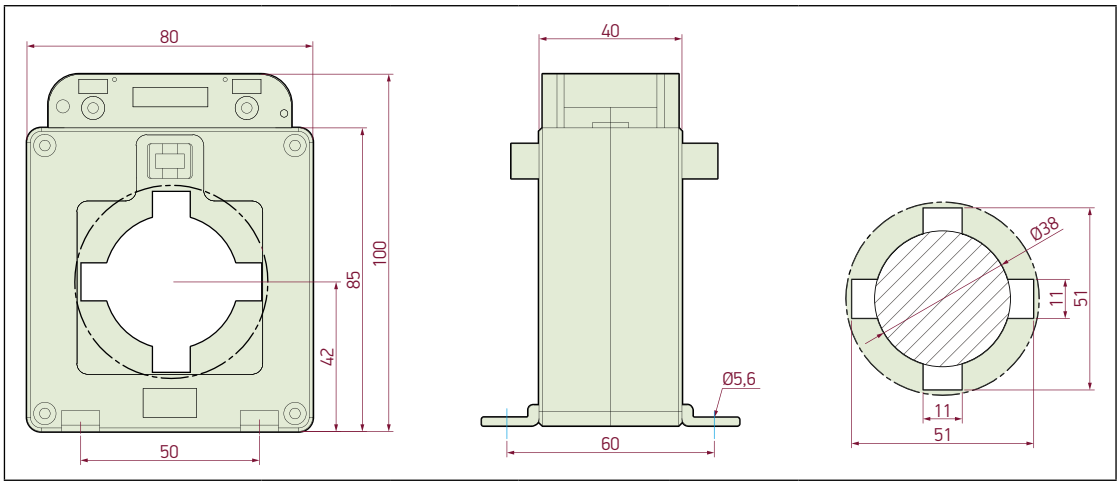
For measurement and application in low voltage panels.

Application Diagram





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S50	500	10	0,5	50x10	3	42	SS5005000510
	600	10	0,5	50x10	3	42	SS5006000510
	750	10	0,5	50x10	3	42	SS5007500510
	800	15	0,5	50x10	3	42	SS5008000515
	1000	15	0,5	50x10	3	42	SS5001000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s.
V) Please request a price for 1A secondary.

S60 Series Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	3,75 - 30VA
Rated primary current	From 750A to 1000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

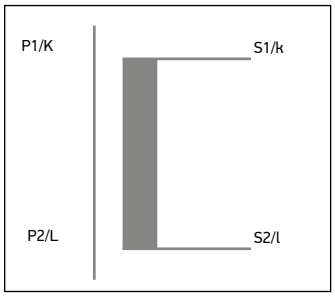
Compact type current transformers are suitable for primary current from 750A to 1000A and they have sealable terminal cover.

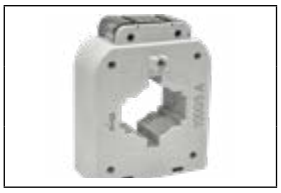
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

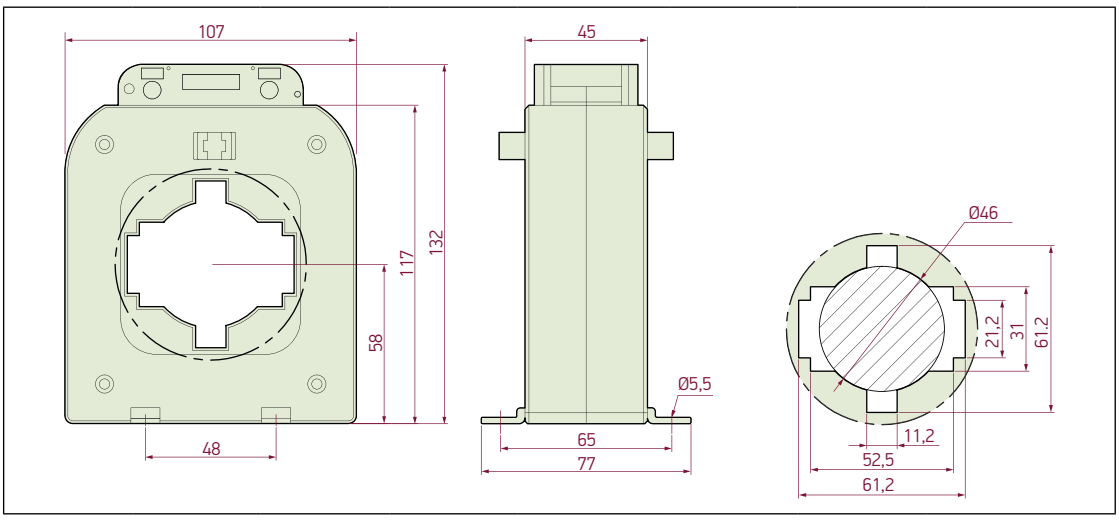




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S60	750	15	0,5	60x20	3	36	SS6007500515
	800	15	0,5	60x20	3	36	SS6008000515
	1000	15	0,5	60x20	3	36	SS6001000515

S60 Series Sealed Type Current Transformer / 5A

S60	750	15	0,5	60x20	3	36	MS6007500515
	800	15	0,5	60x20	3	36	MS6008000515
	1000	15	0,5	60x20	3	36	MS6001000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s
V) Please request a price for 1A secondary.

S60D Series Narrow Type Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	5 - 30VA
Rated primary current	From 750A to 1600A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

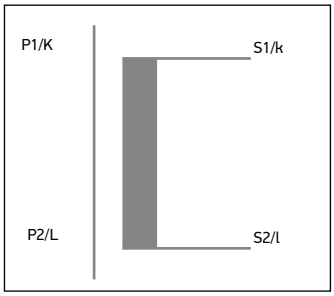
Compact type current transformers are suitable for primary current from 750A to 1600A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

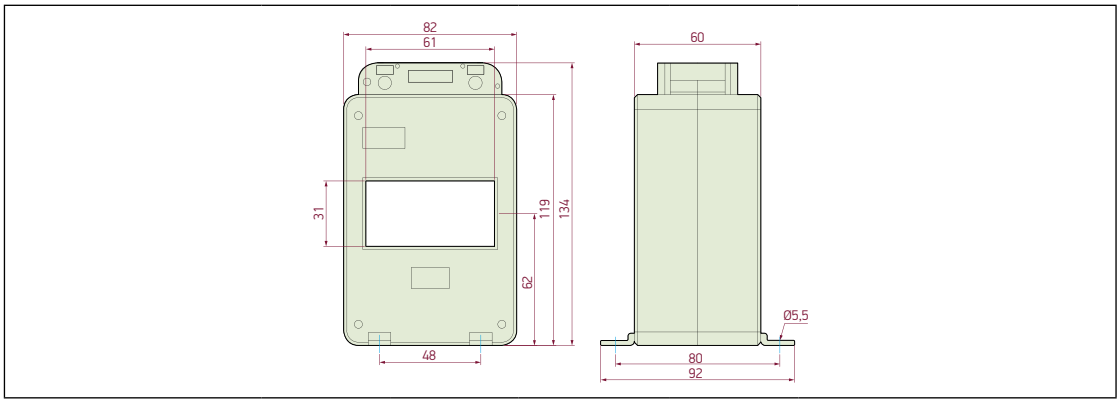




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S60D (Narrow Type)	750	10	0,5	60x30	3	18	SD6007500510
	800	10	0,5	60x30	3	18	SD6008000510
	1000	10	0,5	60x30	3	18	SD6010000510
	1200	15	0,5	60x30	3	18	SD6012000515
	1250	15	0,5	60x30	3	18	SD6012500515
	1500	15	0,5	60x30	3	18	SD6015000515
	1600	15	0,5	60x30	3	18	SD6016000515

S60D Series Sealed Narrow Type Current Transformer / 5A

S60D (Narrow Type)	750	10	0,5	60x30	3	18	MD6007500510
	800	10	0,5	60x30	3	18	MD6008000510
	1000	10	0,5	60x30	3	18	MD6010000510
	1200	15	0,5	60x30	3	18	MD6012000515
	1250	15	0,5	60x30	3	18	MD6012500515
	1500	15	0,5	60x30	3	18	MD6015000515
	1600	15	0,5	60x30	3	18	MD6016000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S80 Series Current Transformer / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	2,5 - 30VA
Rated primary current	From 750A to 2000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

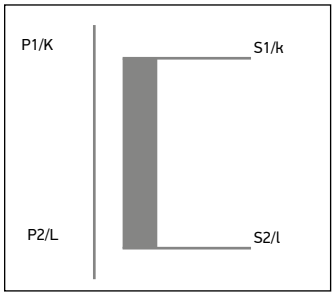
Compact type current transformers are suitable for primary current from 750A to 2000A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

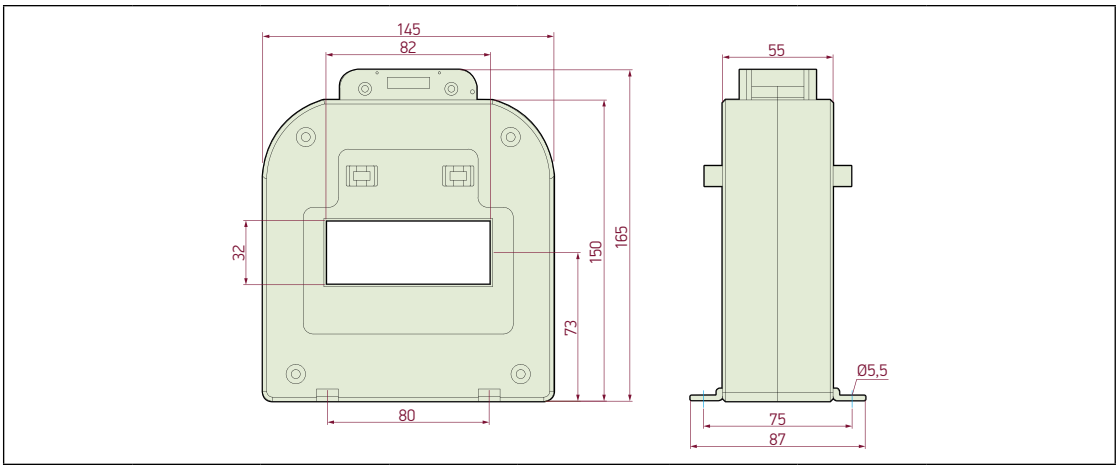
For measurement and application in low voltage panels.

Application Diagram





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S80	750	10	0,5	80x30	3	18	SS8007500510
	800	10	0,5	80x30	3	18	SS8008000510
	1000	15	0,5	80x30	3	18	SS8010000515
	1200	15	0,5	80x30	3	18	SS8012000515
	1250	15	0,5	80x30	3	18	SS8012500515
	1500	15	0,5	80x30	3	18	SS8015000515
	1600	15	0,5	80x30	3	18	SS8001600515
	2000	15	0,5	80x30	3	18	SS8002000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s
V) Please request a price for 1A secondary.

S100 Series Current Transformer / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	2,5 - 30VA
Rated primary current	From 1000A to 3000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

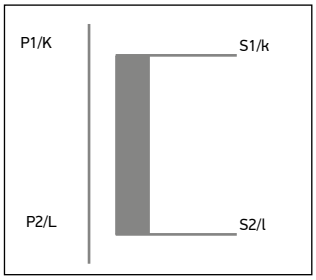
Compact type current transformers are applicable for primary current from 1000A to 3000A and sealable terminal cover is available.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

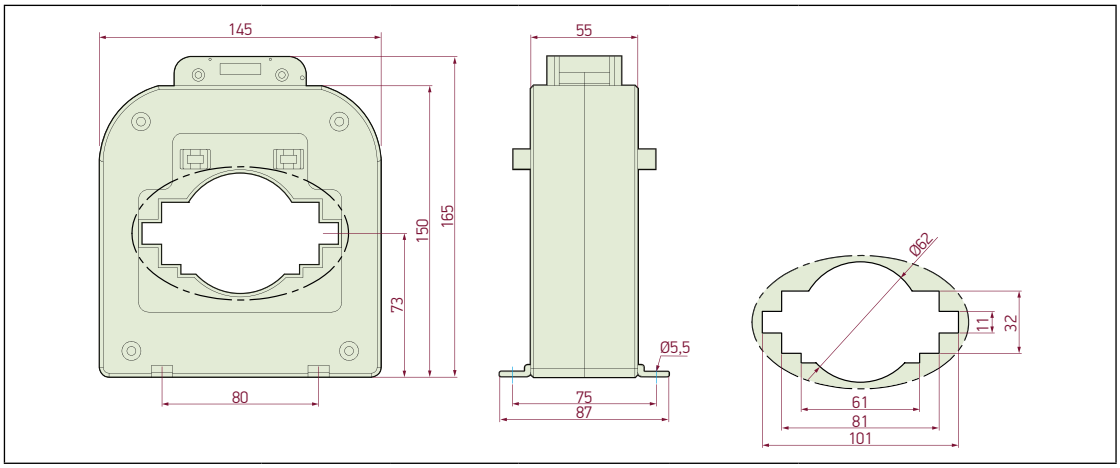




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S100	1000	15	0,5	100x10	3	18	SS1001000515
	1200	15	0,5	100x10	3	18	SS1001200515
	1250	15	0,5	100x10	3	18	SS1001250515
	1500	15	0,5	100x10	3	18	SS1001500515
	1600	15	0,5	100x10	3	18	SS1001600515
	2000	15	0,5	100x10	3	18	SS1002000515
	2500	15	0,5	100x10	3	18	SS1002500515
	3000	15	0,5	100x10	3	18	SS1003000515

S100 Series Sealed Type Current Transformer / 5A

S100	1000	15	0,5	100x10	3	18	MS1001000515
	1200	15	0,5	100x10	3	18	MS1001200515
	1250	15	0,5	100x10	3	18	MS1001250515
	1500	15	0,5	100x10	3	18	MS1001500515
	1600	15	0,5	100x10	3	18	MS1001600515
	2000	15	0,5	100x10	3	18	MS1002000515
	2500	15	0,5	100x10	3	18	MS1002500515
	3000	15	0,5	100x10	3	18	MS1003000515



Note:
I) Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s
V) Please request a price for 1A secondary.

S100D Series Narrow Type Current Transformer

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA 1 sn
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	10 - 30VA
Rated primary current	From 1000A to 4000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

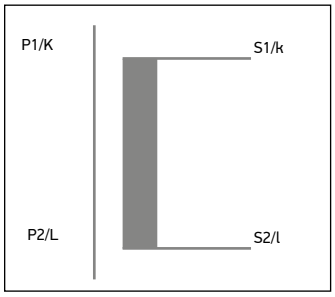
Compact type current transformers are suitable for primary current from 1000A to 4000A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

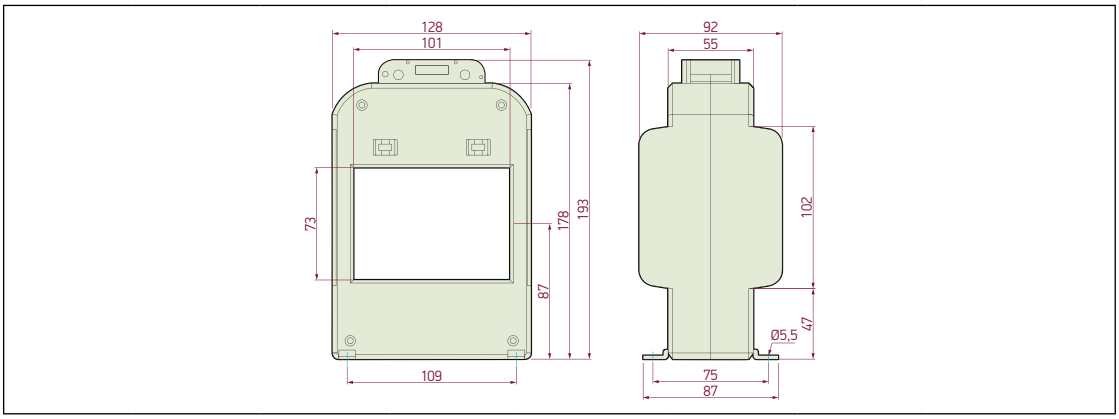




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S100D (Narrow Type)	1000	10	0,5	4x(100x10)	3	12	SD1001000510
	1200	15	0,5	4x(100x10)	3	12	SD1001200515
	1250	15	0,5	4x(100x10)	3	12	SD1001250515
	1600	15	0,5	4x(100x10)	3	12	SD1001600515
	2000	15	0,5	4x(100x10)	3	12	SD1002000515
	2500	15	0,5	4x(100x10)	3	12	SD1002500515
	3000	15	0,5	4x(100x10)	3	12	SD1003000515
	3200	15	0,5	4x(100x10)	3	12	SD1003200515
	4000	15	0,5	4x(100x10)	3	12	SD1004000515

S100D Series Sealed Narrow Type Current Transformer / 5A

S100D (Narrow Type)	1000	10	0,5	4x(100x10)	3	12	MD1001000510
	1200	15	0,5	4x(100x10)	3	12	MD1001200515
	1250	15	0,5	4x(100x10)	3	12	MD1001250515
	1600	15	0,5	4x(100x10)	3	12	MD1001600515
	2000	15	0,5	4x(100x10)	3	12	MD1002000515
	2500	15	0,5	4x(100x10)	3	12	MD1002500515
	3000	15	0,5	4x(100x10)	3	12	MD1003000515
	3200	15	0,5	4x(100x10)	3	12	MD1003200515
	4000	15	0,5	4x(100x10)	3	12	MD1004000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S125 Series Current Transformer / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA 1 sn
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.2s-0.2-0.5-1-3
Burden	3,75 - 30VA
Rated primary current	From 1000A to 5000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

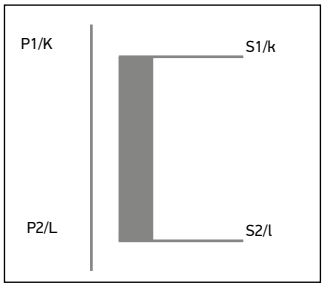
Compact type current transformers are suitable for primary current from 1000A to 5000A and they have sealable terminal cover.

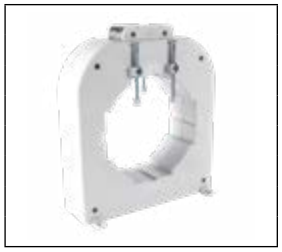
Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

Application Diagram

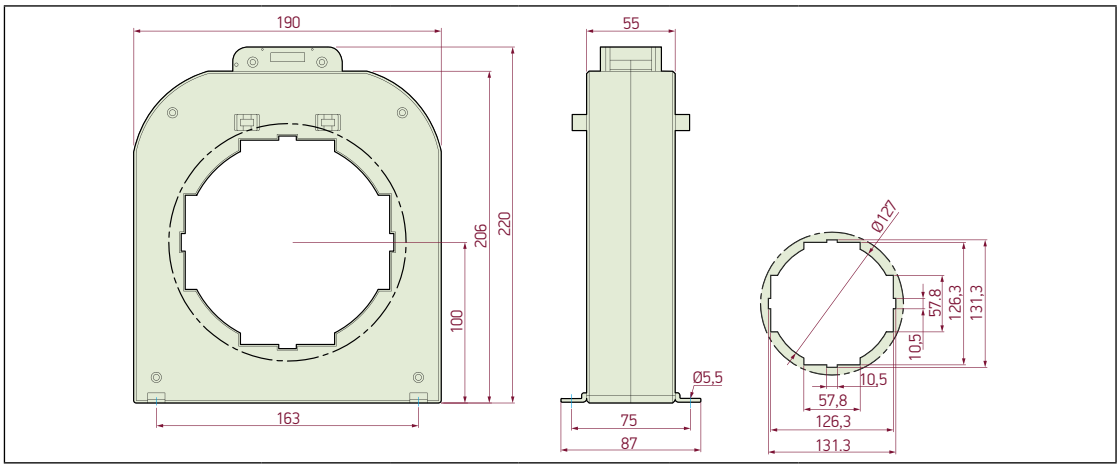




Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S125	1000	15	0,5	3x(125x10) 130x10	3	12	SS1251250515
	1500	15	0,5	3x(125x10) 130x10	3	12	SS1251500515
	1600	15	0,5	3x(125x10) 130x10	3	12	SS1251600515
	2000	15	0,5	3x(125x10) 130x10	3	12	SS1252000515
	2500	15	0,5	3x(125x10) 130x10	3	12	SS1252500515
	3000	30	0,5	3x(125x10) 130x10	3	12	SS1253000530
	4000	30	0,5	3x(125x10) 130x10	3	12	SS1254000530
	5000	30	0,5	3x(125x10) 130x10	3	12	SS1255000530

S125 Series Sealed Type Current Transformer / 5A

S125	1000	15	0,5	3x(125x10) 130x10	3	12	MS1251250515
	1500	15	0,5	3x(125x10) 130x10	3	12	MS1251500515
	1600	15	0,5	3x(125x10) 130x10	3	12	MS1251600515
	2000	15	0,5	3x(125x10) 130x10	3	12	MS1252000515
	2500	15	0,5	3x(125x10) 130x10	3	12	MS1252500515
	3000	30	0,5	3x(125x10) 130x10	3	12	MS1253000530
	4000	30	0,5	3x(125x10) 130x10	3	12	MS1254000530
	5000	30	0,5	3x(125x10) 130x10	3	12	MS1255000530



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price quote for current transformers with accuracy classes 0.2 and 0.2s
V) Please request a price for 1A secondary.

S30A Series Split-Core Type Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	1
Burden	1,5 - 3,75VA
Rated primary current	From 200A to 400A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

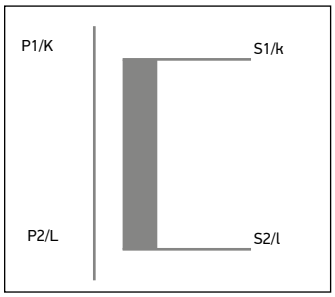
Compact type current transformers are suitable for primary current from 200A to 400A and they have sealable terminal cover

Application

Fit for measurement applications in AC power systems.

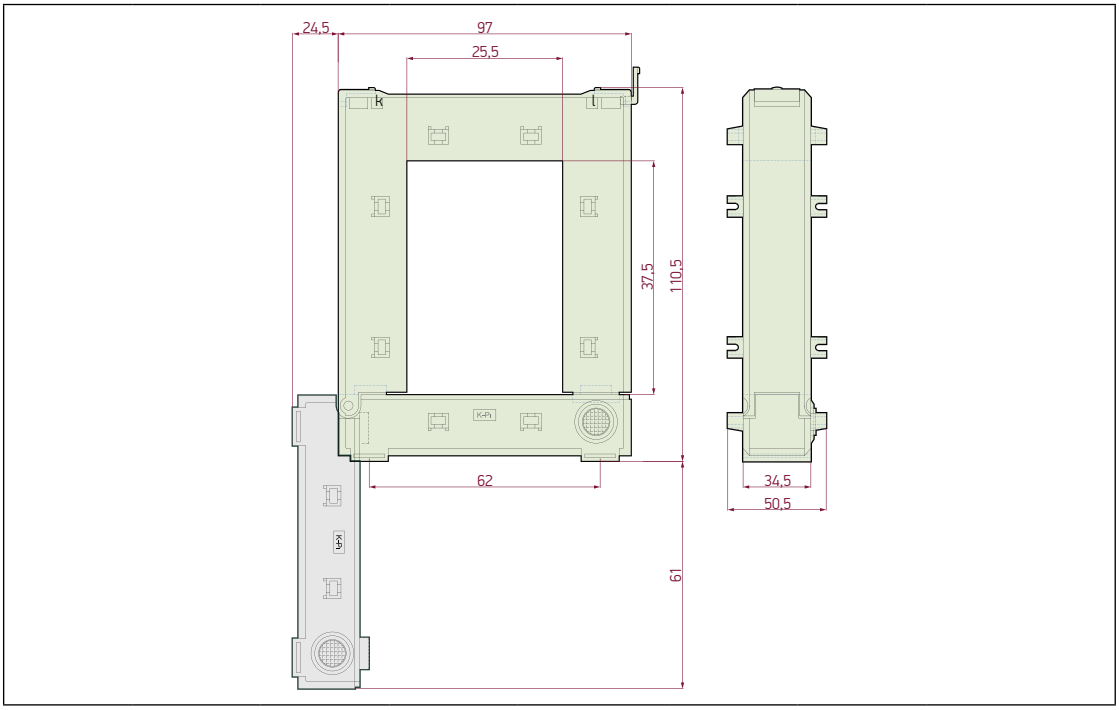
For measurement and application in low voltage panels.

Application Diagram





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S30A	200	1,5	1	30x10	1	18	SA3002001001
	250	2,5	1	30x10	1	18	SA3002501002
	300	2,5	1	30x10	1	18	SA3003001002
	400	3,75	1	30x10	1	18	SA3004001003



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S60A Series Split-Core Type Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	60xIn / 1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 10
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5-1-3
Burden	3,75 - 15VA
Rated primary current	From 400A to 1000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

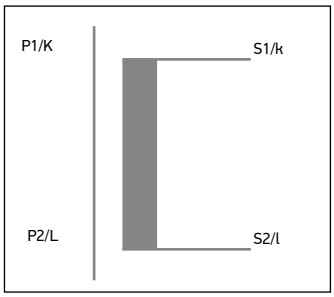
Compact type current transformers are suitable for primary current from 400A to 1000A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

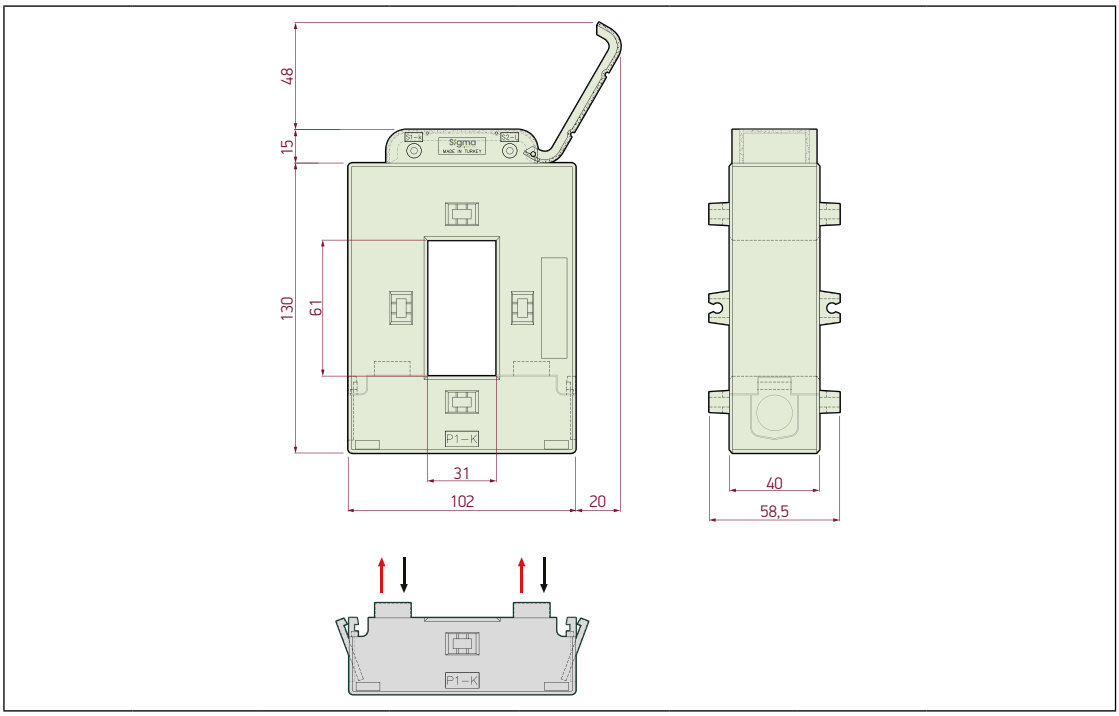
For measurement and application in low voltage panels.

Application Diagram





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S60A	400	3,75	1	60x30	1	18	SA6004001003
	500	5	1	60x30	1	18	SA6005001005
	600	5	0,5	60x30	1	18	SA6006000505
	800	7,5	0,5	60x30	1	18	SA6008000507
	1000	10	0,5	60x30	1	18	SA6010000510



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S120A Series Split-Core Type Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA /1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	10 - 15VA
Rated primary current	From 1200A to 4000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

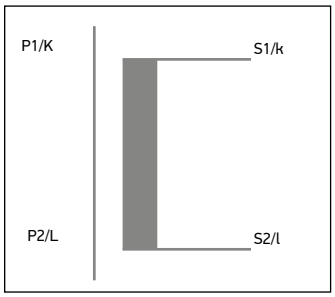
Compact type current transformers are suitable for primary current from 1200A to 4000A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

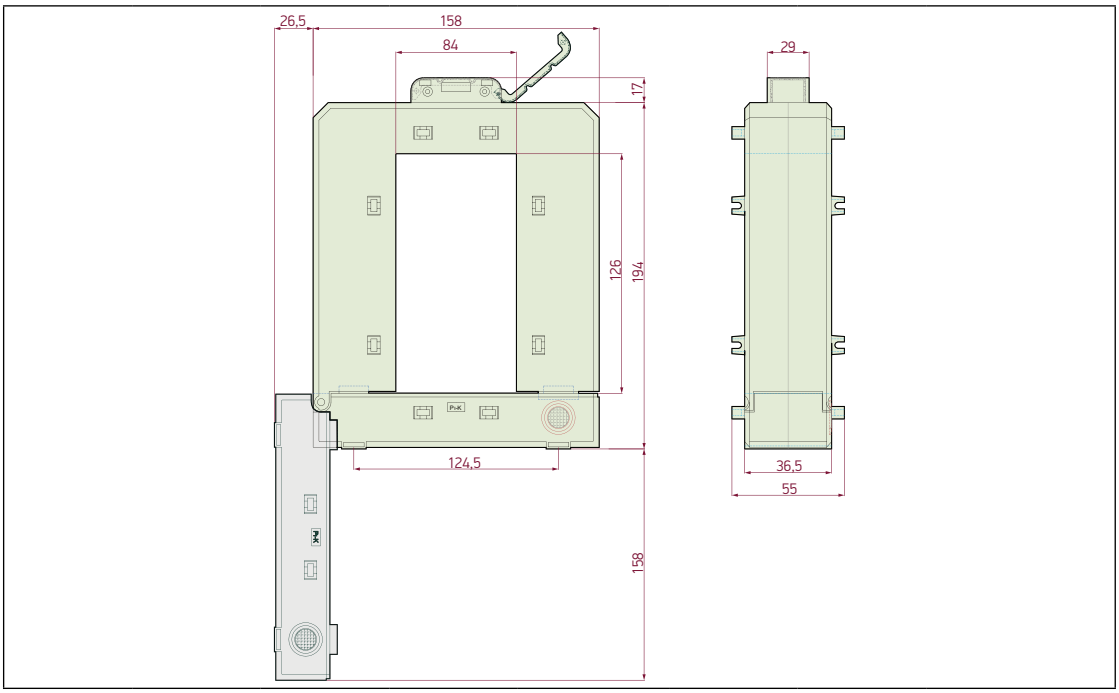
For measurement and application in low voltage panels.

Application Diagram





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S120A	1200	10	0,5	4x (125x10)	1	18	SA12012000510
	1600	10	0,5	4x (125x10)	1	18	SA12016000510
	2000	15	0,5	4x (125x10)	1	18	SA12020000515
	2500	15	0,5	4x (125x10)	1	18	SA12025000515
	3000	15	0,5	4x (125x10)	1	18	SA12030000515
	4000	15	0,5	4x (125x10)	1	18	SA12040000515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

S160A Series Split-Core Type Current Transformers / 5A

Technical Specifications

Standard	IEC 61869-2
Rated operating voltage (Un)	720V
Rated frequency	50/60Hz
Operating ambient temperature	-20°C ... 75°C
Storage temperature	-50°C ... 80°C
Maximum relative humidity	Up to 95%
Rated thermal continuous current	1.2xIn
Rated short-time thermal current (Ith)	100kA/1 sec.
Rated dynamic current (Idyn)	2.5 x Ith / 1 period
Rated power frequency withstand voltage	3kV (50 Hz) /1 min.
Thermal class of insulation	E (120°C max.)
Degree of protection	IP20
Instrument security factor	< 5
Secondary terminals	Nickel plated brass material
Recommended tightening torque	For 2 Nm secondary terminal screws
Accuracy class	0.5
Burden	10 - 15VA
Rated primary current	From 1000A to 6000A
Rated secondary current	5A

Note: Additional information is provided upon request.

Product Identification

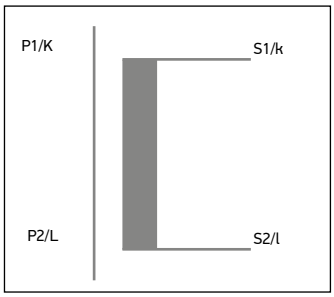
Compact type current transformers are suitable for primary current from 1000A to 6000A and they have sealable terminal cover.

Application

Fit for measurement applications in AC power systems.

For measurement and application in low voltage panels.

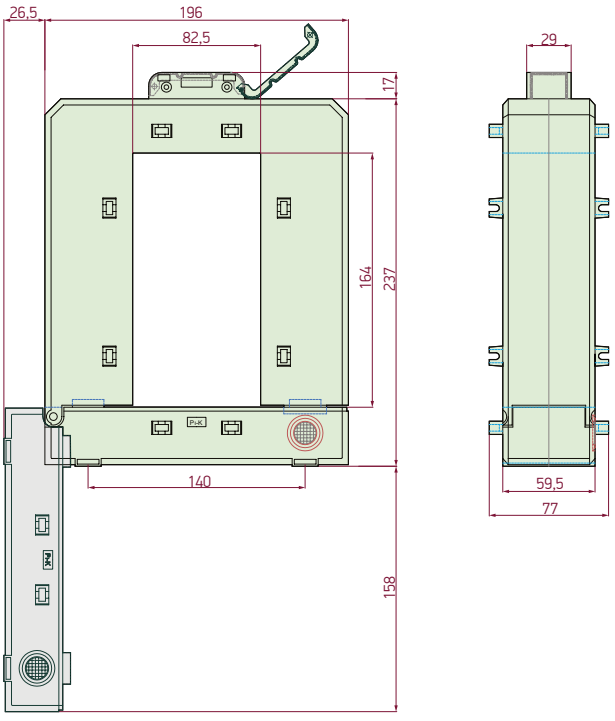
Application Diagram



New Product!



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S160A	1000	10	0,5	4x (160x10)	1	3	SA16010000510
	1200	10	0,5	4x (160x10)	1	3	SA16012000510
	1600	10	0,5	4x (160x10)	1	3	SA16016000510
	2000	15	0,5	4x (160x10)	1	3	SA16020000515
	2500	15	0,5	4x (160x10)	1	3	SA16025000515
	3000	15	0,5	4x (160x10)	1	3	SA16030000515
	4000	30	0,5	4x (160x10)	1	3	SA16040000530
	5000	30	0,5	4x (160x10)	1	3	SA16050000530
	6000	30	0,5	4x (160x10)	1	3	SA16060000530

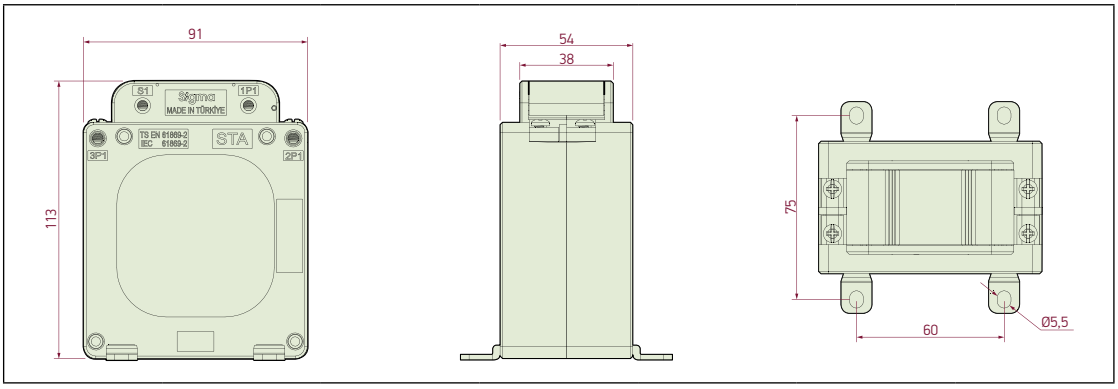


Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

STA-2 / STA-3 Summation Transformers/ 5A



Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Min. Order Quantity	Pcs in a Box	Order Code
STA-2	5+5	10	0,5	3	36	STA20510
STA-2	5+5	15	0,5	3	36	STA20515
STA-3	5+5+5	10	0,5	3	36	STA30510
STA-3	5+5+5	15	0,5	3	36	STA30515



Note: **I)** Current Transformers are ordered and shipped on a box basis.
II) Order quantity is in multiples of 3
III) Please request a price for types not listed.
IV) Please request a price for 1A secondary.

When the currents in different feeders need to be metered with single meter or instrument, a summation transformer can be used. Summation current transformers are designed for summation of several synchronous AC currents in same phase belt.

The secondary circuits of the main CTs are to be connected to the corresponding marked primary terminals of the summation CT. If the ratios of the main CTs are not equal, in order to obtain a correct vectorial sum, it is necessary to specify the ratio values of the individual main CTs.

In consumer installation, where there are more than one feeder, it is more economical to use summation metering and for this purpose, summation CT is required. 2 to 12 different currents of different feeders in the same phase can be summed. The standard primary & secondary currents are 5 or 1 amp.

TYPE	Primary (A)	Rated power (VA) max	
		Class 0,5	Class 1
STA-2	5+5/5	10	15
STA-3	5+5+5/5	10	15

Example

Main C.T. : $\frac{300A}{5}$, $\frac{100A}{1}$, $\frac{100A}{5}$

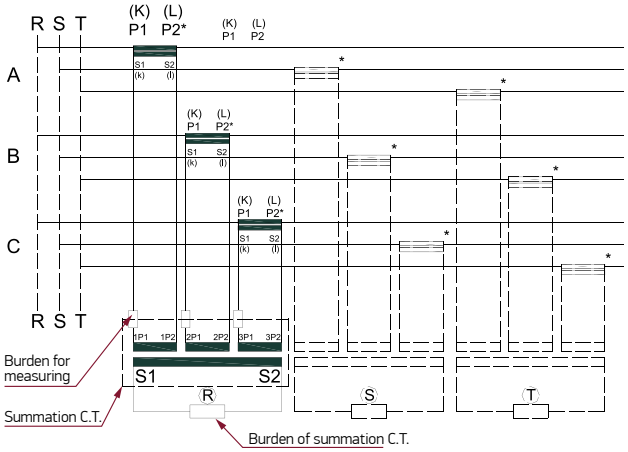
Summation C.T. : $\frac{5+1+5}{5}$ A

Result C.T. : $\frac{300+100+100}{5}$: 100 "Ratio"

Connection diagram of summation current transformer:

(Type STA-3) One phase (R) of the three-phase A, B, C groups are shown in the picture

* Main current transformer



Sigma elektrik



DIGITAL MEASUREMENT **DEVICES**

Digital Measurement Devices measure the electrical parameters in your facility with high precision and reliability.

- Class 0.5 measurement accuracy
- Compact type design
- Variety of sizes (72x72mm, 96x96mm)
- CATIII degree of protection (model based)
- Communication via RS485 (model based)

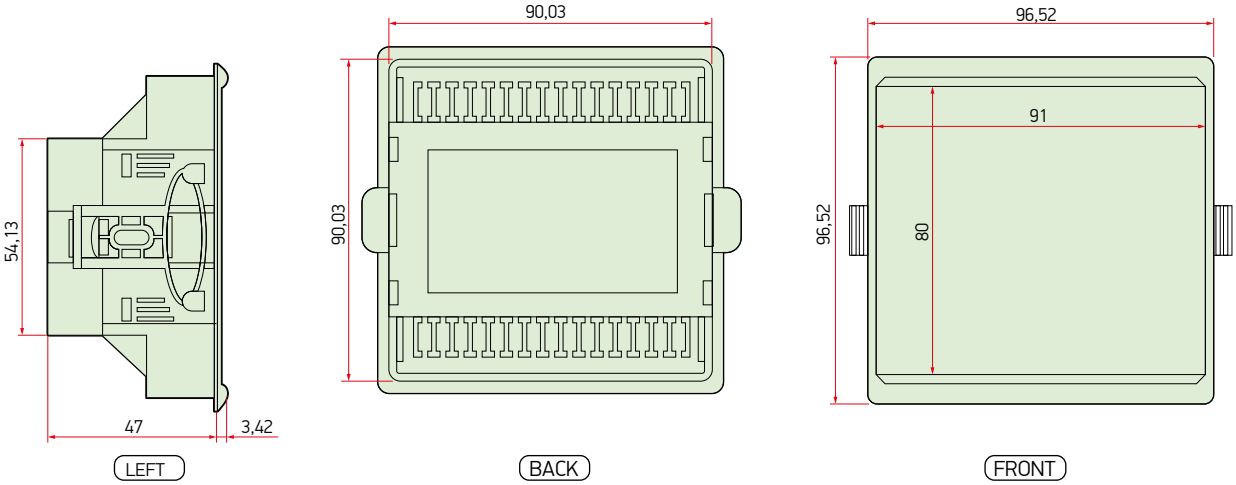
Digital Measurement Devices



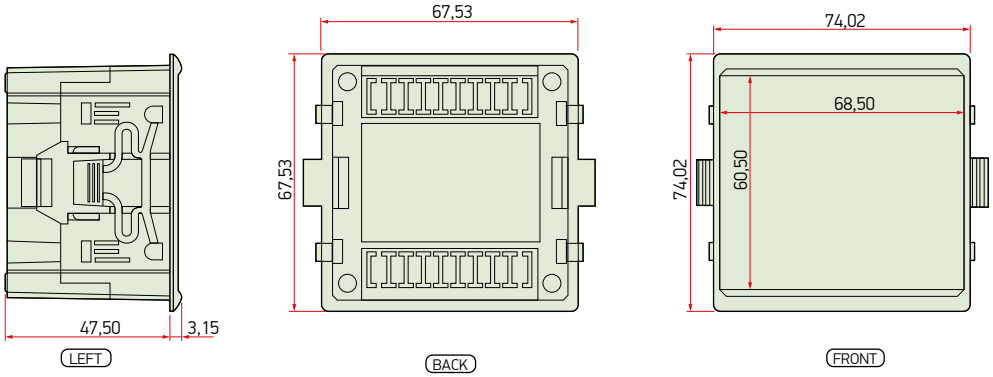
Type Code	Description	Diameter (mm)	3xV, 3xI, Frekans, W, VAr, VA, ΣVAr, ΣVA, Cos φ, Akım, Gerilim, max. min. değerler, Wh,Varh	Koli Adedi	Sipariş Kodu
SY 72A	Ammeter with Current Transformer 1-5000/5A	72x72		72	SY72A
SY 96A	Ammeter with Current Transformer 1-5000/5A	96x96		27	SY96A
SY3 96A	3 phase Ammeter	96x96		27	SY396A
SY 72V	110-300V AC Voltmeter	72x72		72	SY72V
SY 96V	110-300V AC Voltmeter	96x96		27	SY96V
SY3 96V	3 phase Voltmeter	96x96		27	SY396V
SY 96M	Multimeter (Current-Voltage-Frequency Meter)	96x96		27	SY96M
SD 96MP	Multifunctional Powermeter (with RS485)	96x96	✓	27	SD96MP
SD 96MAC	Multifunctional Network Analyser (with harmonic measurement)	96x96	✓	27	SD96MAC
SD 8MAC	DIN Rail Type Multifunctional Network Analyser (with harmonic measurement)	DIN type	✓	27	SD8MAC

Dimensions

SY 96A, SY3 96A, SY-96V, SY3-96V, SY 96M



SY 72A, SY 72V



Sigma elektrik



RELAYS

Relay is a switch model that can control the circuit electrically. The main reason why relays working with an electromechanical system are used in electrical and electronic circuits is that they can control high currents with low currents. Relays are generally used in controlling the circuits.

- **Level Control Relay:** In monitoring environments such as tanks, water tanks and wells containing conductive liquids
- **3-Phase Voltage Relay:** In protecting devices and motors from overvoltage and undervoltage
- **Asymmetrical Cycle Time Relay:** General room ventilation, periodic dehumidification, lighting control, circulation pumps, signage, etc.
- **Star-Delta Delayed Time Relay:** Providing the required time interval during the transition from star connection to delta connection
- **Single Function Time Relay:** It is used in applications where function and time requirements are known.
- **Thermistor Motor Protection Relay:** To protect against thermal overload of motors caused by high switching frequency, heavy duty starting, phase failure on one phase, bad cooling, high ambient temperature.

Relays

Type	Description	Explanation	Supply Voltage	Order Code
SRV8-01	Voltage Relay	Over/High Voltage	230V AC	**SRV801230**
SRV8-03	Voltage Relay	Phase sequence and phase failure protection	220-460V	**SRV803460**
SRV8-05	Voltage Relay	Over voltage Undervoltage Asymmetry time delay Phase sequence Phase failure	220-460V	**SRV805460**
SRT8-A30S	Single - Function Time Relay	0.1-30 Second delay ON	230V AC	**SRT8A30S**
SRT8-A60S	Single - Function Time Relay	0.1-60 Second delay ON	230V AC	**SRT8A60S**
SRT8-A10D	Multi-Function Time Relay	0.1 s - 10 days, ON-OFF	230V AC	**SRT8A10D**
SRT8-M1	Multi-Function Time Relay	1xSPDT	AC/DC 24V~240V	**SRT8-M1**
SRT8-M2	Multi-Function Time Relay	2xSPDT	AC/DC 24V~240V	**SRT8-M2**
SRT8-STD	Delay On Star/Delta Relay	Range of time delay t1:0.1s -10min, Switch time t2:0.1s-1s	AC/DC 24V~240V	**SRT8ST240**
SRT8-STA	Delay On Star/Delta Relay	Range of time delay t1:0.1s -10min, Switch time t2:0.1s-1s	230V AC	**SRT8STA**
SRT8-S1	Asymmetric Cycler Relay	0.1 s - 100 days	AC/DC 24V~240V	**SRTSS1240**
SRL8-01	Level Control Relay	2 Level control mode	AC/DC 24V~240V	**SRL801240**
SRP8-01 NEW PRODUCT	Thermistor motor protection relay	1xSPDT	AC/DC 24V~240V	**SRP8-01**
SRP8-02 NEW PRODUCT	Thermistor motor protection relay	2xSPDT	AC/DC 24V~240V	**SRP8-02**


SRV8-05


SRT8-A30S


SRT8-A60S


SRT8-A10D


SRP8-01


SRT8-M2


SRT8-STD


SRT8-STA


SRL8-LS


SRP8-02

Analogue Time Switches



Type	Description	Explanation	Supply Voltage	Pcs in a Box	Order Code
STS8-01	Analogue Time Switch	100 hours reserve time (with supercapacitor)	230V AC	80	**STS8-01**

Sigma elektrik



COMPENSATION
PRODUCTS

Reactive penalty is a type of penalty system applied when the reactive power generated in electricity consumption exceeds a certain limit. Compensation is a method used to balance reactive power consumption and correct the power factor.

Thanks to compensation products, businesses can;

- Prevent from penalty payments by minimizing the reactive energy drawn from the network
- Reduce in electrical losses and voltage drops
- Make energy systems work more efficiently
- Ensure energy efficiency by reducing energy losses

Power Factor Controllers



		Min. current limit (mA)	Steps	Shunt reactor	Mobile remote monitoring	Remote parameter adjustment	Up to 63th harmonic	Up to 31st harmonic	Up to 11th harmonic	Automatric setup	Password protection	Internal temperature measurement	RS485	Display type	Real time clock	Protection of steps lifetime	Automatic correction of connection faults	SVC / TCR output	Thristor switch controller	Energy Meters	Pcs in a Box	Order Code
SR12E	NEW PRODUCT	20	12	+	-	-	-	-	+	+	+	-	-	2x16LCD	+	+	+	-	-	+	6	SR12E
SR12SVC	NEW PRODUCT	20	12	+	-	-	-	-	+	+	+	-	-	2x16LCD	+	+	+	+	-	+	6	SR12SVC
SR15K		20	15	+	-	-	-	+	-	+	+	-	-	128x64LCD	-	+	+	-	-	+	6	SR15K
SR15SVC		5	12	+	-	-	+	-	-	+	+	+	-	240x160LCD	+	+	+	+	-	+	6	SR15SVC
SR15SVC-H		5	12	+	+	+	+	-	-	+	+	+	+	240x160LCD	+	+	+	+	-	+	6	SR15SVC-H
SR27SVC-H		5	24	+	+	+	+	-	-	+	+	+	+	240x160LCD	+	+	+	+	-	+	6	SR27SVC-H

Note: Please contact our related sales manager for power factor controllers which makes measurement through medium voltage.

Inductive Load Drivers



Type Code	Power (KVar)	Driving capability of shunt reactor	Operating Voltage (V)	Nominal current of MCB (A)	Thermal protection	Switching Voltage	Response time	Dimensions	Order Code
SSE 5	3x1,66 kVAr	3- Single Phase	230V	16	✓	5V DC	20 ms	120x90x120	SSE5
SSE 10	3x3,66 kVAr	3- Single Phase	230V	25	✓	5V DC	20 ms	75x125x125	SSE10
SSE 20	3x6,66 kVAr	3- Single Phase	230V	63	✓	5V DC	20 ms	130x190x135	SSE20
SSE 50	3x16,66 kVAr	3- Single Phase	230V	100	✓	5V DC	20 ms	189x198x129	SSE50



Single Phase Shunt Reactors



Type Code	Power (KVar)	Voltage (V)	I rms (A)	Dimensions (mm)	Order Code
SESRM	1,66	230	7,22	150x130x125	**SESRM-1,66**
	3,33	230	14,48	192x160x144	**SESRM-3,33**
	6,66	230	28,96	195x290x160	**SESRM-6,66**
	16,66	Ask for information			**SESRM-16,66**

Single Phase Shunt Reactors



Type Code	Power (KVar)	Voltage (V)	I rms (A)	Dimensions (mm)	Order Code
SESRM	0,25	230	1,09	120x100x95	**SESRM-0,25**
	0,5	230	2,17	120x100x95	**SESRM-0,5**
	1	230	4,35	150x130x125	**SESRM-1**
	1,5	230	6,52	150x130x125	**SESRM-1,5**
	1,66	230	7,22	150x130x125	**SESRM-1,66**
	2,5	230	10,87	192x160x144	**SESRM-2,5**
	3	230	13,04	192x160x144	**SESRM-3**
	3,33	230	14,48	192x160x144	**SESRM-3,33**
	5	230	21,74	195x300x155	**SESRM-5**
	6,66	230	28,96	195x290x160	**SESRM-6,66**
	7,5	230	32,61	195x365x155	**SESRM-7,5**
	10	230	43,48	235x365x185	**SESRM-10**

Three Phase Shunt Reactors



Type Code	Power (KVar)	Voltage (V)	I rms (A)	Dimensions (mm)	Order Code
SESRT	0,25	400	0,36	200x180x85	**SESRT-0,25**
	0,5	400	0,72	200x180x85	**SESRT-0,5**
	1	400	1,44	200x180x120	**SESRT-1**
	1,5	400	2,17	200x180x120	**SESRT-1,5**
	2,5	400	3,62	240x270x140	**SESRT-2,5**
	5	400	7,24	290x320x150	**SESRT-5**
	7,5	400	10,86	190x320x160	**SESRT-7,5**
	10	400	14,49	360x375x160	**SESRT-10**
	15	400	21,73	360x375x170	**SESRT-15**
	20	400	28,98	415x400x175	**SESRT-20**
	25	400	36,23	415x400x220	**SESRT-25**
	30	400	43,47	415x400x220	**SESRT-30**
	40	400	57,97	520x480x280	**SESRT-40**
	50	400	72,46	570x530x300	**SESRT-50**

230V Single Phase Cylindrical Type Capacitor



Type Code	kVAr@ 230V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
1SK230	0,25	Ø35x55	3	10	1SK230-0.25
	0,5	Ø45x65	3	10	1SK230-0.5
	1	Ø50x75	3	7	1SK230-1
	1,5	Ø50x100	3	10	1SK230-1.5
	2,5	Ø60x100	3	10	1SK230-2.5
	5	Ø76x145	3	7	1SK230-5

400V Three Phase Cylindrical Type Capacitor



Type Code	kVAr@ 400V, 50 Hz	kVAr@ 415V, 50 Hz	kVAr@ 440V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3SK400	0,5	0,54	0,61	Ø76x90	3	8	3SK400-0.5
	1	1,08	1,21	Ø76x90	3	8	3SK400-1
	1,5	1,61	1,81	Ø76x90	3	8	3SK400-1.5
	2,5	2,69	3,03	Ø76x110	3	6	3SK400-2.5
	5	5,38	6,05	Ø76x205	3	6	3SK400-5
	7,5	8,07	9,08	Ø76x205	3	6	3SK400-7.5
	10	10,76	12,10	Ø76x235	3	6	3SK400-10
	12,5	13,46	15,13	Ø76x280	3	6	3SK400-12.5
	15	16,15	18,15	Ø76x280	3	6	3SK400-15
	20	21,53	24,20	Ø86x280	3	6	3SK400-20
	25	26,91	30,25	Ø96x280	3	4	3SK400-25
	30	32,29	36,30	Ø106x280	3	3	3SK400-30
	40	43,06	48,40	Ø126x280	3	2	3SK400-40
	50	53,80	60,50	Ø136x280	3	2	3SK400-50

440V Three Phase Cylindrical Type Capacitor

New Product!



Type Code	kVAr@ 440V, 50 Hz	kVAr@ 415V, 50 Hz	kVAr@ 400V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3SK440	0,5	0,44	0,41	Ø76x90	3	10	3SK440-0.5
	1	0,89	0,83	Ø76x90	3	10	3SK440-1
	1,5	1,33	1,24	Ø76x90	3	10	3SK440-1.5
	2,5	2,22	2,07	Ø76x110	3	10	3SK440-2.5
	5	4,45	4,13	Ø76x205	3	10	3SK440-5
	7,5	6,67	6,20	Ø76*205	3	10	3SK440-7.5
	10	8,90	8,26	Ø76x235	3	7	3SK440-10
	12,5	11,12	10,33	Ø76x235	3	7	3SK440-12.5
	15	13,34	12,40	Ø76x280	3	5	3SK440-15
	20	17,79	16,53	Ø86x280	3	4	3SK440-20
	25	22,24	20,66	Ø96x280	3	4	3SK440-25
	30	26,69	24,79	Ø106x280	3	3	3SK440-30
	40	35,58	33,06	Ø116x280	3	2	3SK440-40
	50	44,48	41,32	Ø126x280	3	2	3SK440-50

525V Three Phase Cylindrical Type Capacitor



Type Code	kVAr@ 525V, 50 Hz	kVAr@ 480V, 50 Hz	kVAr@ 400V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
NEW PRODUCT	5	4,18	2,90	Ø63,5x150	3	7	3SK525-5
NEW PRODUCT	7,5	6,27	4,35	Ø76x175	3	7	3SK525-7.5
	10	8,40	5,80	Ø76x205	3	7	3SK525-10
NEW PRODUCT	12,5	10,45	7,26	Ø76x235	3	7	3SK525-12.5
3SK525	15	12,60	8,70	Ø76x280	3	4	3SK525-15
	20	16,80	11,60	Ø86x280	3	3	3SK525-20
	25	21,00	14,50	Ø96x280	3	3	3SK525-25
	30	25,10	17,40	Ø106x280	3	3	3SK525-30

400V Heavy Duty Capacitor

New Product!



Type Code	kVAr@ 400V, 50 Hz	kVAr@ 415V, 50 Hz	kVAr@ 440V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3UK400	0,5	0,53	0,6	Ø50x65	3	10	3UK400-0.5
	1	1,07	1,21	Ø50x85	3	10	3UK400-1
	1,5	1,61	1,81	Ø50x125	3	10	3UK400-1.5
	2,5	2,69	3,02	Ø50x125	3	10	3UK400-2.5
	5	5,38	6,04	Ø63.5x150	3	7	3UK400-5
	7,5	8,07	9,07	Ø76x175	3	7	3UK400-7.5
	10	10,76	12,09	Ø76x205	3	7	3UK400-10
	12,5	13,45	15,12	Ø76x235	3	5	3UK400-12.5
	15	16,15	18,15	Ø76x280	3	4	3UK400-15
	20	21,52	24,19	Ø86x280	3	3	3UK400-20
	25	26,91	30,24	Ø96x280	3	3	3UK400-25
	30	32,28	36,29	Ø106x280	3	3	3UK400-30
	40	43,05	48,39	Ø116x280	3	2	3UK400-40
	50	53,81	60,49	Ø126x280	3	2	3UK400-50

525V Heavy Duty Capacitor

New Product!



Type Code	kVAr@ 525V, 50Hz	kVAr@ 480V, 50Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3UK525	0,5	0,42	Ø50x65	3	10	3UK525-0.5
	1	0,84	Ø50x85	3	10	3UK525-1
	1,5	1,26	Ø50x125	3	10	3UK525-1.5
	2,5	2,10	Ø50x150	3	10	3UK525-2.5
	5	4,18	Ø63,5x150	3	7	3UK525-5
	7,5	6,27	Ø76x175	3	7	3UK525-7.5
	10	8,40	Ø76x205	3	7	3UK525-10
	12,5	10,45	Ø76x235	3	5	3UK525-12.5
	15	12,60	Ø76x280	3	4	3UK525-15
	20	16,80	Ø86x280	3	3	3UK525-20
	25	21,00	Ø96x280	3	3	3UK525-25
	30	25,20	Ø106x280	3	3	3UK525-30
	40	33,60	Ø116x280	3	2	3UK525-40
	50	42,00	Ø126x280	3	2	3UK525-50

400V Super Heavy Duty Capacitor

New Product!



Type Code	kVAr@ 400V, 50 Hz	kVAr@ 415V, 50 Hz	kVAr@ 440V, 50 Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3XK400	2,5	2,69	3,02	Ø50x150	3	10	3XK400-2.5
	5	5,38	6,04	Ø63.5x150	3	7	3XK400-5
	10	10,76	12,09	Ø76x235	3	7	3XK400-10
	15	16,15	18,15	Ø86x280	3	4	3XK400-15
	20	21,52	24,19	Ø96x280	3	3	3XK400-20
	25	26,91	30,24	Ø96x280	3	3	3XK400-25
	30	32,28	36,29	Ø106x280	3	3	3XK400-30
	40	43,05	48,39	Ø126x280	3	2	3XK400-40
	50	53,81	60,49	Ø136x280	3	2	3XK400-50

525V Super Heavy Duty Capacitor

New Product!



Type Code	kVAr@ 525V, 50Hz	kVAr@ 480V, 50Hz	Diameter Dxh (mm)	Min. Order Quantity	Pcs in a Box	Order Code
3XK525	5	4,18	Ø76x175	3	7	3XK525-5
	10	8,4	Ø76x235	3	7	3XK525-10
	15	12,6	Ø86x280	3	4	3XK525-15
	20	16,8	Ø96x280	3	3	3XK525-20
	25	21	Ø106x280	3	3	3XK525-25
	30	25,2	Ø106x280	3	3	3XK525-30
	40	33,6	Ø126x280	3	2	3XK525-40
	50	42	Ø136x280	3	2	3XK525-50



Contactors for Capacitor Bank - Coil Voltage: 230V AC



Type Code	Rated Capacitor Power at Θ≤55°C (kVAr)			Oparation / hour	Electrical Life (Cycle)	Auxiliary Contact	Current Limiting Block	Pcs in a Box	Order Code
	220/240V	380/440V	480/525V						
SCK-2,5	1,5	2,5	3	240 op/h	200.000	1NO	—	20	SCK2.5
SCK-5	3	5	6	240 op/h	200.000	1NO	—	20	SCK5
SCK-10	6	10	12,5	240 op/h	200.000	1NO	✓	20	SCK10
SCK-15	8	15	16,7	240 op/h	200.000	1NO	✓	14	SCK15
SCK-20	12	20	24	240 op/h	200.000	1NO	✓	14	SCK20
SCK-25	15	25	25	240 op/h	200.000	1NO	✓	8	SCK25
SCK-33	20	33,3	33,3	100 op/h	100.000	1NO	✓	8	SCK33
SCK-40	22	40	45	100 op/h	100.000	1NO	✓	8	SCK40
SCK-50	33,3	50	50	100 op/h	100.000	1NO	✓	8	SCK50
SCK-60	45	60	60	100 op/h	100.000	1NO	✓	8	SCK60

Contactors for Capacitor Bank (for SCM Series Contactors)

New Product!



Type Code	Rated Capacitor Power (kVAr) θ≤55°C			Used Contactor	Electrical Life (Cycle)	Auxiliary Contact	Current Limiting Block	Pcs in a Box	Order Code
	220/240V	380/440V	480/525V						
SCC-2.5	1,5	2,5	3	SCM-12	100.000	2NO + 1NC	—	20	SCC2.5
SCC-5	3	5	6	SCM-18	100.000	2NO + 1NC	—	20	SCC5
SCC-10	6	10	12,5	SCM-18	100.000	2NO + 1NC	✓	20	SCC10
SCC-15	8	15	16,7	SCM-25	100.000	2NO + 1NC	✓	14	SCC15
SCC-20	12	20	24	SCM-32	100.000	2NO + 1NC	✓	14	SCC20
SCC-25	15	25	25	SCM-40	100.000	2NO + 1NC	✓	8	SCC25
SCC-30	20	30	30	SCM-50	100.000	2NO + 1NC	✓	8	SCC30
SCC-40	25	40	45	SCM-65	100.000	2NO + 1NC	✓	8	SCC40
SCC-50	30	50	50	SCM-80	100.000	2NO + 1NC	✓	8	SCC50
SCC-60	35	60	60	SCM-95	100.000	2NO + 1NC	✓	8	SCC60
SCC-75	45	75	70	SCM-115	100.000	2NO + 1NC	✓	8	SCC75



Horizontal Type Fuse Switch Disconnectors for Compensation Systems



Type Code	Rated Current In (A)	Size	Min. Order Quantity	Pcs in a Box	Order Code
SFH-160	160	00 (without fuse) C00 (without fuse)	1	9	SFH160
SFH-250	250	1 (without fuse)	1	3	SFH250

NH Fuses (Double Indicator) for Compensation Systems





Size	Rated Current In (A)	Breaking Capacity (kA)	Min. Order Quantity	Pcs in a Box	Order Code
NHC00	6	120	10	180	SNHC00I006
	10	120	10	180	SNHC00I010
	16	120	10	180	SNHC00I016
	20	120	10	180	SNHC00I020
	25	120	10	180	SNHC00I025
	32	120	10	180	SNHC00I032
	40	120	10	180	SNHC00I040
	50	120	10	180	SNHC00I050
	63	120	10	180	SNHC00I063
	80	120	10	180	SNHC00I080
	100	120	10	180	SNHC00I100
NH00	6	120	10	96	SNH00I0006
	10	120	10	96	SNH00I0010
	16	120	10	96	SNH00I0016
	20	120	10	96	SNH00I0020
	25	120	10	96	SNH00I0025
	32	120	10	96	SNH00I0032
	40	120	10	96	SNH00I0040
	50	120	10	96	SNH00I0050
	63	120	10	96	SNH00I0063
	80	120	10	96	SNH00I0080
	100	120	10	96	SNH00I0100
	125	120	10	96	SNH00I0125
	160	120	10	96	SNH00I0160

Note: The prices listed are for silver-plated NH blade fuses. Please request a price for tin-plated NH blade fuses.



Current Transformers for Compensation Systems





Type Code	Primary Current (A)	Rated Power (VA)	Class (cl)	Bus Bar Dimensions (mm)	Min. Order Quantity	Pcs in a Box	Order Code
S20MC	30	1	3	Ø20	3		S20MC00300301
	40	1	3	Ø20	3		S20MC00400301
	50	1,5	1	Ø20	3		S20MC00500115
	60	1,5	1	Ø20	3		S20MC00600115
	75	1,5	1	Ø20	3		S20MC00750115
	80	1,5	1	Ø20	3		S20MC00800115
	100	2,5	1	Ø20	3		S20MC01000125
	125	2,5	1	Ø20	3		S20MC01250125
	150	2,5	1	Ø20	3		S20MC01500125
	200	2,5	1	Ø20	3		S20MC02000125
	250	5	1	Ø20	3		S20MC02500105
	300	5	1	Ø20	3		S20MC03000105
S30ML	50	1,5	1	30x10	3	51	SM3000501005
	60	1,5	1	30x10	3	51	SM3000601005
	75	1,5	1	30x10	3	51	SM3000751005
	100	2,5	1	30x10	3	51	SM3001001002
	200	5	0,5	30x10	3	51	SM3002000505
	250	10	0,5	30x10	3	51	SM3002500510
	300	10	0,5	30x10	3	51	SM3003000510
	400	10	0,5	30x10	3	51	SM3004000510
	500	10	0,5	30x10	3	51	SM3005000510
	600	10	0,5	30x10	3	51	SM3006000510
SMT30	50	1,5	3	30	3	51	SMT0300050301
	60	2,5	3	30	3	51	SMT0300060302
	75	2,5	3	30	3	51	SMT0300075302
	100	2,5	3	30	3	51	SMT0300100302
	125	2,5	3	30	3	51	SMT0300125302
	150	2,5	3	30	3	51	SMT0300150302
	200	2,5	3	30	3	51	SMT0300200302
	250	2,5	0,5	30	3	51	SMT0300250502
	300	5	0,5	30	3	51	SMT0300300505
SMT40	100	2,5	3	40	3	42	SMT0400100302
	150	2,5	3	40	3	42	SMT0400150302
	200	2,5	3	40	3	42	SMT0400200302
	400	5	0,5	40	3	42	SMT0400400505
	500	5	0,5	40	3	42	SMT0400500505
	600	5	0,5	40	3	42	SMT0400600505

Compensation Products Selection Guide

	POWER CAPACITOR		CONTACTOR FOR CAPACITOR BANK		HORIZONTAL TYPE FUSE SWITCH DISCONNECTOR	
	I Power Capacitor	Sigma Order Code	x1,3 = I Contactor For Capacitor Bank	Sigma Order Code	x1,35 = I NH Fuse	Sigma Order Code
2,5 kVAr	3,6A	3SK400-2,5	4,68A = 5A	SCK2,5	6,32A = 6A	3 x SNH00I0006 + SFH160
5 kVAr	7,2A	3SK400-5	9,36A = 10A	SCK5	12,46A = 13A	3 x SNH00I0016 + SFH160
7,5 kVAr	10,8A	3SK400-7,5	14,04A = 15A	SCK10	18,95A = 19A	3 x SNH00I0020 + SFH160
10 kVAr	14,4A	3SK400-10	18,72A = 19A	SCK10	25,27A = 25A	3 x SNH00I0025 + SFH160
12,5 kVAr	18A	3SK400-12,5	23,4A = 24A	SCK15	31,59A = 32A	3 x SNH00I0032 + SFH160
15 kVAr	21,6A	3SK400-15	28,08A = 28A	SCK15	37,91A = 38A	3 x SNH00I0040 + SFH160
20 kVAr	28,8A	3SK400-20	37,44A = 38A	SCK20	50,54A = 50A	3 x SNH00I0050 + SFH160
25 kVAr	36A	3SK400-25	46,8A = 47A	SCK25	63,18A = 63A	3 x SNH00I0063 + SFH160
30 kVAr	43,2A	3SK400-30	56,16A = 57A	SCK33	75,81A = 76A	3 x SNH00I0080 + SFH160
40 kVAr	57,6A	3SK400-40	74,88 = 75A	SCK40	101,09 = 101A	3 x SNH00I0100 + SFH160
50 kVAr	72A	3SK400-50	93,6A = 94A	SCK50	126,36 = 126A	3 x SNH00I0125 + SFH160
60 kVAr	86,5A	2 x 3SK400-30	112,45A = 113A	SCK60	151,80 = 152A	3 x SNH00I0160 + SFH160

Control Transformers

New Product!



Type Code	Rated Power (VA)	Short-term power (VA)	Primary Voltage (V)	Secondary Voltage (V)	Weight (kg)	Pcs in a Box	Order Code
SVT-50	50	130	230	24	1.55	1	SVT-50/230024
SVT-100	100	225	230	24	2.00	1	SVT-100/230024
SVT-160	160	530	230	24	3.20	1	SVT-160/230024
SVT-250	250	730	230	24	3.50	1	SVT-250/230024
SVT-320	320	1050	230	24	3.80	1	SVT-320/230024
SVT-400	400	1430	230	24	5.10	1	SVT-400/230024
SVT-500	500	1900	230	24	7.25	1	SVT-500/230024
SVT-630	630	2500	230	24	8.30	1	SVT-630/230024
SVT-800	800	3100	230	24	10.00	1	SVT-800/230024
SVT-1000	1000	3500	230	24	13.50	1	SVT-1000/230024

SVT-50	50	130	400	24	1.55	1	SVT-50/400024
SVT-100	100	225	400	24	2.00	1	SVT-100/400024
SVT-160	160	530	400	24	3.20	1	SVT-160/400024
SVT-250	250	730	400	24	3.50	1	SVT-250/400024
SVT-320	320	1050	400	24	3.80	1	SVT-320/400024
SVT-400	400	1430	400	24	5.10	1	SVT-400/400024
SVT-500	500	1900	400	24	7.25	1	SVT-500/400024
SVT-630	630	2500	400	24	8.30	1	SVT-630/400024

Note: Production option available on demand with different voltage values up to 2500VA.

Isolation Transformers

New Product!



Type Code	Rated Power (VA)	Primary Voltage (V)	Secondary Voltage (V)	Weight (kg)	Pcs in a Box	Order Code
SVI-50	50	230	230	1.60	1	SVI-50/230230
SVI-100	100	230	230	2.35	1	SVI-100/230230
SVI-160	160	230	230	3.50	1	SVI-160/230230
SVI-250	250	230	230	3.90	1	SVI-250/230230
SVI-320	320	230	230	4.00	1	SVI-320/230230
SVI-400	400	230	230	5.40	1	SVI-400/230230
SVI-500	500	230	230	8.50	1	SVI-500/230230
SVI-630	630	230	230	9.00	1	SVI-630/230230
SVI-800	800	230	230	10.50	1	SVI-800/230230
SVI-1000	1000	230	230	14.30	1	SVI-1000/230230

SVI-50	50	400	230	1.60	1	SVI-50/400230
SVI-100	100	400	230	2.35	1	SVI-100/400230
SVI-160	160	400	230	3.50	1	SVI-160/400230
SVI-250	250	400	230	3.90	1	SVI-250/400230
SVI-320	320	400	230	4.00	1	SVI-320/400230
SVI-400	400	400	230	5.40	1	SVI-400/400230
SVI-500	500	400	230	8.50	1	SVI-500/400230
SVI-630	630	400	230	9.00	1	SVI-630/400230
SVI-800	800	400	230	10.50	1	SVI-800/400230
SVI-1000	1000	400	230	14.30	1	SVI-1000/400230

Note: Production option available on demand with different voltage values up to 2500VA.

Sigma elektrik



AC AND DC RENEWABLE **ENERGY PRODUCTS**

DC products are needed in every field where DC circuits are used.

DC Miniature Circuit Breakers

- 1, 2 and 4 poles
- 10kA short circuit breaking capacity
- Rated current from 6A to 125A
- Type C

DC LV Moulded Case Circuit Breakers

- Rated current from 80A to 630A
- 25kA and 36kA breaking capacity
- 1000V DC and 1500V DC rated voltage

DC LV Surge Protection Device

- 20kA short circuit breaking capacity
- Possibility of remote monitoring with auxiliary contact function
- 600, 1000, 1500V DC nominal operating voltages

DC Cylindrical (Cartridge) Fuse Bases

- 1 pole
- 25A and 32A rated currents

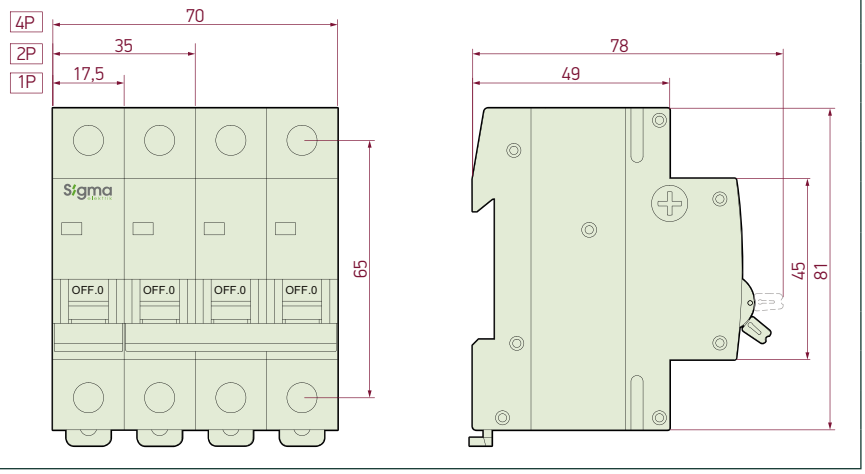
DC Cylindrical (Cartridge) Fuse

- Rated current from 8A to 50A
- 20kA and 25kA short circuit breaking capacity
- 10x38mm,10x85mm and 14x85mm cartridge size

DC MCB - 10kA

	SDC 10000		
Number of poles	1P	2P	4P
Rated nominal current	6-63A		
Rated insulation voltage	1000V		
Rated operating voltage	250V	500V	1000V
Rated impulse withstand voltage	4kV		
Rated short circuit breaking capacity	10kA		
Instantaneous tripping class	C		
Mechanical life (No. operation)	20.000		
Electrical life (No. operation)	2.500		
Operating temperature	-25 ... +60		
Storage temperature	-40 ... +80		
Relative Humidity	95%		

SDC 10000



	Number of poles	Rated Current In (A)	Rated short circuit breaking capacity	Rated operating voltage	Min. Order Quantity	Pcs in a Box	Order Code
	1P	6	10kA	250	12	240	1SD106C
		10	10kA	250	12	240	1SD110C
		16	10kA	250	12	240	1SD116C
		20	10kA	250	12	240	1SD120C
		25	10kA	250	12	240	1SD125C
		32	10kA	250	12	240	1SD132C
		40	10kA	250	12	240	1SD140C
		50	10kA	250	12	240	1SD150C
		63	10kA	250	12	240	1SD163C
	NEW PRODUCT	80	10kA	250	12	240	1SD180C
	NEW PRODUCT	100	10kA	250	12	240	1SD100C
	NEW PRODUCT	125	10kA	250	12	240	1SD112C
	2P	6	10kA	500	6	120	1SD206C
		10	10kA	500	6	120	1SD210C
		16	10kA	500	6	120	1SD216C
		20	10kA	500	6	120	1SD220C
		25	10kA	500	6	120	1SD225C
		32	10kA	500	6	120	1SD232C
		40	10kA	500	6	120	1SD240C
		50	10kA	500	6	120	1SD250C
		63	10kA	500	6	120	1SD263C
	NEW PRODUCT	80	10kA	500	6	120	1SD280C
	NEW PRODUCT	100	10kA	500	6	120	1SD200C
	NEW PRODUCT	125	10kA	500	6	120	1SD212C
	4P	6	10kA	1000	3	60	1SD406C
		10	10kA	1000	3	60	1SD410C
		16	10kA	1000	3	60	1SD416C
		20	10kA	1000	3	60	1SD420C
		25	10kA	1000	3	60	1SD425C
		32	10kA	1000	3	60	1SD432C
		40	10kA	1000	3	60	1SD440C
		50	10kA	1000	3	60	1SD450C
		63	10kA	1000	3	60	1SD463C
	NEW PRODUCT	80	10kA	1000	3	60	1SD480C
	NEW PRODUCT	100	10kA	1000	3	60	1SD400C
	NEW PRODUCT	125	10kA	1000	3	60	1SD412C

DC LV MCCB - 1000V - 1500V Technical Specifications

				2DC250	2DC630
Standard				IEC / EN 60947-2	IEC / EN 60947-2
Rated current (at 40°C)		A		63, 80, 100,125, 160, 200, 250	315, 400, 500, 630
Number of poles				2	2
Rated operating voltage	Ue	V	DC	1500	1500
Rated insulation voltage	Ui	V	DC	1000	1000
Rated impulse withstand voltage	Uimp	kV		12	12
Rated ultimate short circuit capacity	Icu	kA	1000V DC	25	25
Utilization category				A	A
Pollution degree				3	3
Electrical life (No. operation)	ON - OFF		1000V DC	1250	1000
Mechanical life (No. operation)	ON - OFF			8000	6000
Protection unit				Thermal-Magnetic Fixed	Thermal-Magnetic Fixed
Ip degree of protection				IP40	IP40
Current threshold for overload protection				1xIn	1xIn
Current threshold for short-circuit protection				10xIn	10xIn
Ambient operating temperature		°C		-20 ... +60	-20 ... +60
Ambient storage temperature		°C		-40 ... +80	-40 ... +80
Relative Humidity		%		95	95
Accessories					
Shunt trip release				√	√
Undervoltage release				–	–
Auxiliary contact				√	√
Alarm contact				√	√
Motor operator				√	√
Ext. Rotary handle				√	√
Connection clamp				–	–
Mechanical lock ped				–	–

2 Poles - DC LV MCCB - 1500V - Order Information

New Product!



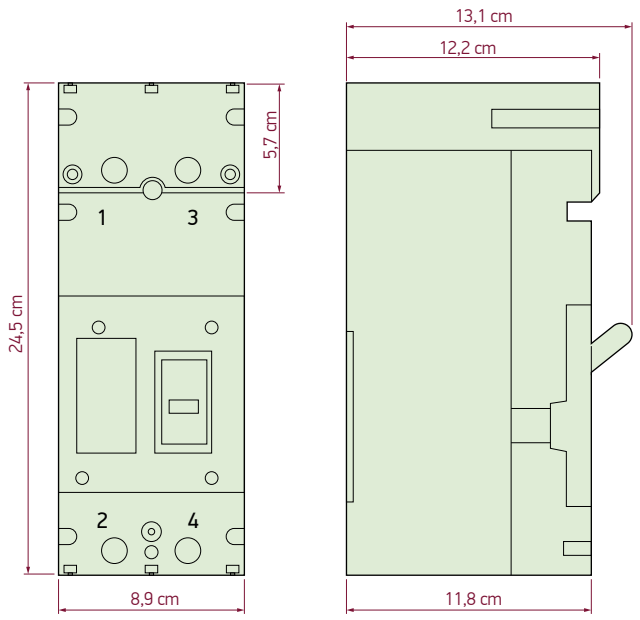
Type Code	Rated Voltage DC (V)	Rated Current In (A)	Thermal Adj. Current Ir(A)	Instantaneous Tripping Current (Im)	Breaking Capacity (Icu) 1000V DC	Breaking Capacity (Icu) 1500V DC	Pcs in a Box	Order Code
2DC250	1500	63	Fixed	10xIn	50	25	4	2DC250063
	1500	80	Fixed	10xIn	50	25	4	2DC250080
	1500	100	Fixed	10xIn	50	25	4	2DC250100
	1500	125	Fixed	10xIn	50	25	4	2DC250125
	1500	160	Fixed	10xIn	50	25	4	2DC250160
	1500	200	Fixed	10xIn	50	25	4	2DC250200
	1500	250	Fixed	10xIn	50	25	4	2DC250250
2DC630	1500	315	Fixed	10xIn	50	25	4	2DC630315
	1500	400	Fixed	10xIn	50	25	4	2DC630400
	1500	500	Fixed	10xIn	50	25	4	2DC630500
	1500	630	Fixed	10xIn	50	25	4	2DC630630

2 Poles - DC LV MCCB - 1500V - Accessories

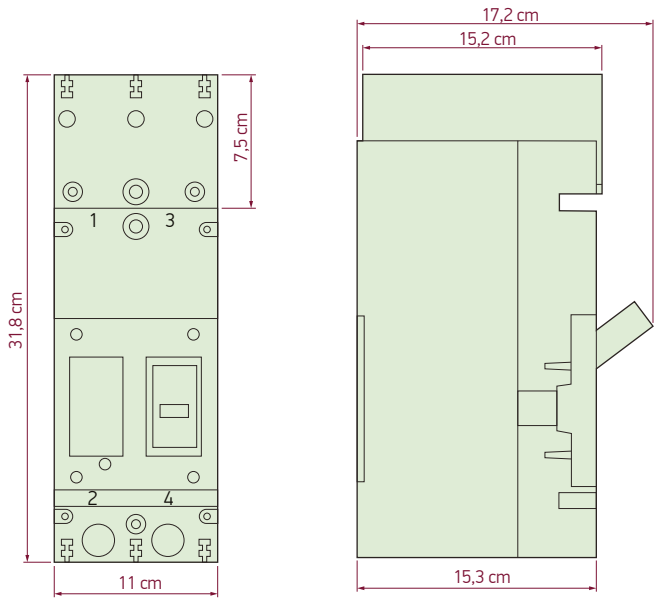
MCCB Type	Accessories	Feature	Order Code
2DC250	Shunt Trip Release	230V AC	**DC250AB230AC**
	Alarm Contact		**DC250AK**
	Auxiliary Contact		**DC250YK**
	Alarm + Auxiliary Contact		**DC250AYK**
2DC630	Shunt Trip Release	230V AC	**DC630AB230AC**
	Alarm Contact		**DC630AK**
	Auxiliary Contact		**DC630YK**
	Alarm + Auxiliary Contact		**DC630AYK**
	Rotary Handle (with extension shaft)		**DC630DK**
	Motor Operator	230V AC	**DC630MM**

2 Poles - DC LV MCCB - 1500V - Dimensions

2DC250



2DC630



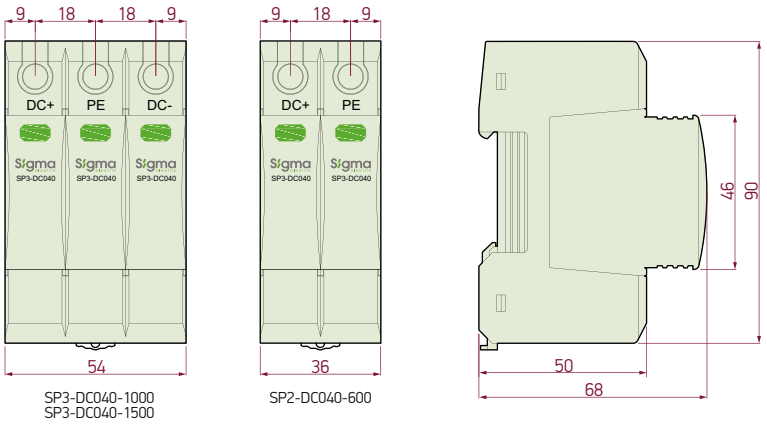
DC Low Voltage Surge Arresters



Type		Un(V) DC	Imax (kA)	In (kA)	Up (V)	Order Code
SP2-DC040	NEW PRODUCT	600	40	20	<2	SP2-DC040-0600
SP3-DC040		1000	40	20	<3	SP3-DC040-1000
SP3-DC040	NEW PRODUCT	1500	40	20	<4	SP3-DC040-1500
SP3-BC50DC	NEW PRODUCT	1000	50	20	4	SP3-BC50DC-1000
SP3-BC50DC	NEW PRODUCT	1500	50	20	4	SP3-BC50DC-1500

Dimensions

SP2 - SP3



DC Load Disconnect Switch

New Product!



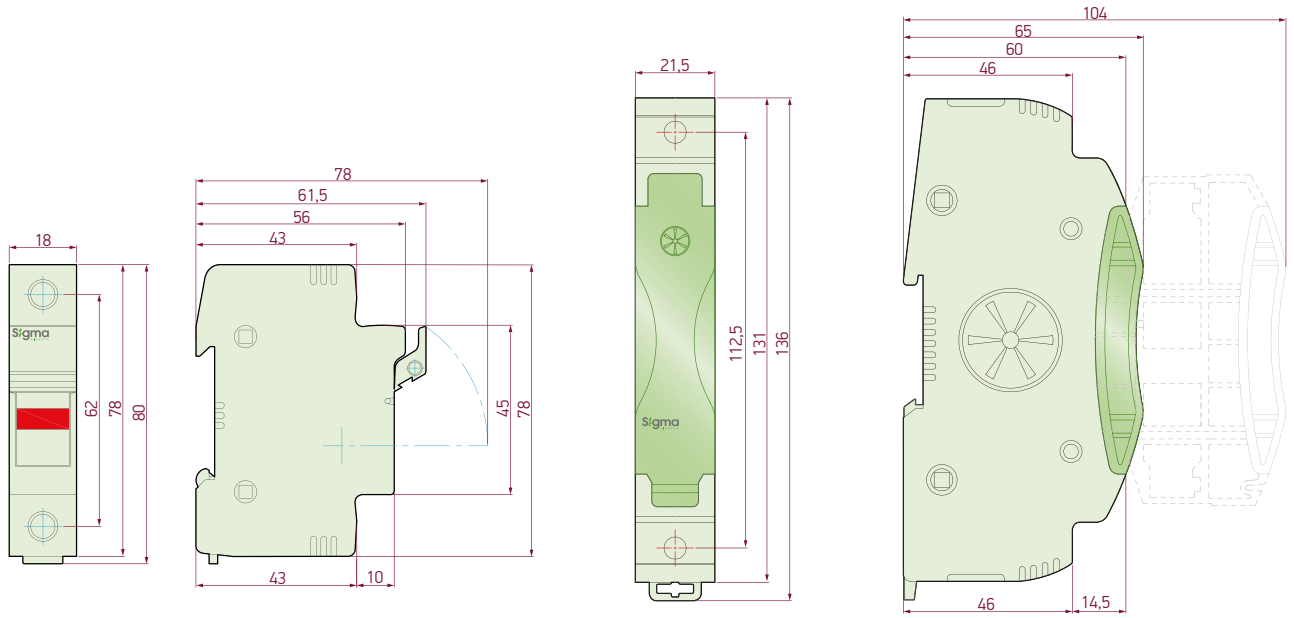
Type Code	Rated Current In (A)	Uimp	Ui (V DC)	Standard	Category	Order Code
SYY-250/2DC	250A	12kV	1500	IEC 60947-3	DC21-B	SYY-250/2DC
SYY-400/2DC	400A	12kV	1500	IEC 60947-3	DC21-B	SYY-400/2DC

DC Cylindrical (Cartridge) Fuse Bases



Type	Rated Current (A)	Rated Voltage DC (V)	Number of poles	Cartridge (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SDC-125	25	1000	1	10x38	12	360	**SDC125**
SDC-132	32	1500	1	10X85	1	1	**SDC132**

SDC125 - SDC132

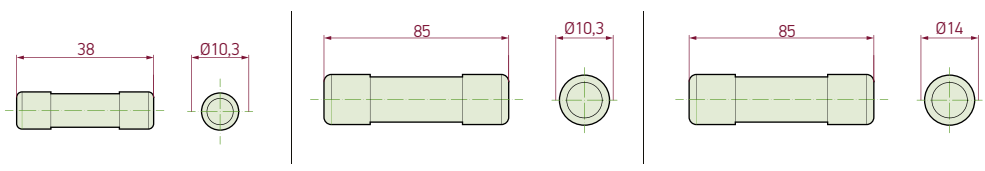


DC Cylindrical (Cartridge) Fuses



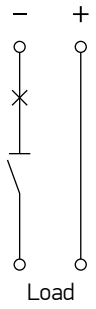
Type	Rated Current (A)	I1 (kA)	Rated Voltage DC (V)	Cartridge (mm)	Min. Order Quantity	Pcs in a Box	Order Code
SFDC	8	25	1000	10x38	10	2000	**SFDC08**
	20	25	1000	10x38	10	2000	**SFDC20**
	25	25	1000	10x38	10	2000	**SFDC25**
NEW PRODUCT	32	25	1000	10x38	10	2000	**SFDC32**
SLDC	20	20	1500	10x85	1	1000	**SLDC20**
	25	20	1500	10x85	1	1000	**SLDC25**
	30	20	1500	10x85	1	1000	**SLDC30**
NEW PRODUCT	40	20	1500	14x85	1	1000	**SLDC40**
NEW PRODUCT	50	20	1500	14x85	1	1000	**SLDC50**

SFDC - SLDC

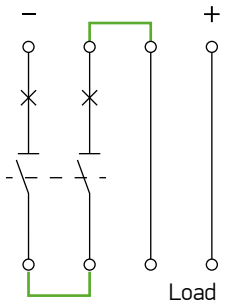


Circuit Diagram

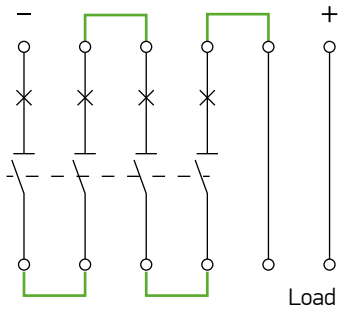
DC Fuse 1P
(SDC10000 - 250 V)



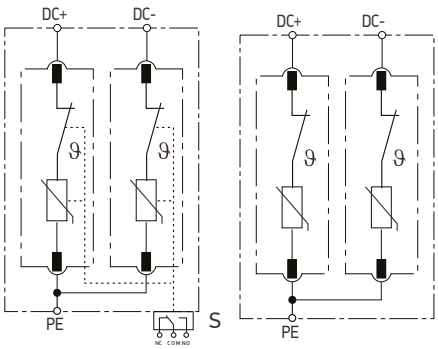
DC Fuse 2P
(SDC10000 - 500 V)



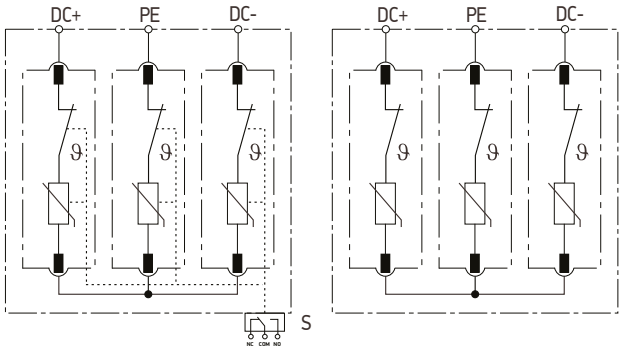
DC Fuse 4P
(SDC10000 - 1000 V)



DC Low Voltage Surge Arresters
(SP2-DC040-600)



DC Low Voltage Surge Arresters
(SP3-DC040-1000, SP3-DC040-1500)




SOLIGMA
SERIES

RELIABLE AND SUPERIOR PROTECTION AT ALL TIMES IN SOLAR ENERGY SYSTEMS WITH SOLİGMA

Protect your Solar Energy Systems safely, **reduce** maintenance costs and achieve **maximum efficiency** with **Soligma Series**!

800V AC Circuit Breaker

Soligma Series LV Circuit Breakers are specially designed for 800V AC Solar Energy Systems and thanks to their superior features, they safely perform the switching and protection function of the systems they are connected to.

- High operating voltage for 800V AC photovoltaic systems
- 1000V nominal insulation voltage with internal phase separators
- 36kA short circuit breaking capacity with the double contact (Double Break) breaking system
- Short circuit opening time down to 2ms thanks to the design technology
- 800V type test report according to IEC 60947-2 approved by an accredited laboratory

800V AC Air Circuit Breakers

Soligma Series Air Circuit Breakers are specially designed for 800V AC Solar Energy Systems and are produced as a solution against overload currents, short circuit currents and ground faults in the system and electrical equipment it is connected to with its superior features. Thanks to its remote communication electronic trip unit and high short circuit breaking capacity, it shows faster detection and action in overload, short circuit and ground fault situations.

- 65kA short circuit breaking capacity
- Rated current between 630A and 6300A
- 1000V AC rated insulation voltage
- (1-20)xIn+OFF instantaneous breaking current, (0.2-1) xIn+OFF ground fault current
- LSIG protection
- Active power, reactive power, apparent power, power factor, phase voltages, phase currents, trip and alarm records can be viewed on the LCD screen
- Internal counter feature showing the number of opening and closing of the circuit
- Efficient and uninterrupted communication with RS485

800V AC Surge Protection Device for String Inverter Protection

800V AC string inverter protection surge protection device is specially designed to protect string inverters in solar energy systems.

- Special production designed for use in solar systems
- 3-Pole production
- B+C type
- IP20 Protection Class



Soligma 800V AC Horizontal Type Fuse Switch Disconnectors

Sigma 800V AC Horizontal Type Fuse Switch Disconnectors specially designed for Solar Systems, are electrical circuit protection and control elements that, when used with NH fuses, enable the circuit to be manually opened and closed, as well as to safely cut off the circuit in the event of any short circuit or overload current.

- Special design suitable for use in 800V AC Solar systems
- Design suitable for NH00, NH1, NH2, NH3 sizes
- Lockability feature to ensure maintenance and repair safety

Soligma 800V AC NH Fuses

Specially designed for safe use in solar systems, Soligma 800V AC NH Fuses are from the group of melting wire fuses and safely protect your system against overload currents and short circuits.

- Product variety up to 400A in NH00, NH1, NH2, NH3 sizes
- Easy fault detection thanks to the double-indicator structure
- Short circuit breaking capacity up to 120kA
- Steatite body material resistant to short circuits, pressure and high heat
- High-speed response time

800V AC 3 Poles LV Moulded Case Circuit Breakers (for Photovoltaic Systems)

New Product!



Type Code	Rated Current In (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
Thermal Adjustable - Magnetic Fixed							
XLT160	20	(0.7-1)xIn	320A	36	K0250AB230AC K0250AB030DC	6	3XLT160020S
	25			36		6	3XLT160025S
	32			36		6	3XLT160032S
	40	(0.7-1)xIn	10xIn	36		6	3XLT160040S
	50			36		6	3XLT160050S
	63			36		6	3XLT160063S
	80			36		6	3XLT160080S
	100			36		6	3XLT160100S
	125			36		6	3XLT160125S
	160			36		6	3XLT160160S
Thermal Adjustable - Magnetic Adjustable							
XLT250	100	(0.7-1)xIn	(5-10)xIn	36	K0250AB230AC K0250AB030DC	6	3XLT250100S
	125			36		6	3XLT250125S
	160			36		6	3XLT250160S
	200			36		6	3XLT250200S
	250			36		6	3XLT250250S
XLT400	320			36		2	3XLT400320S
	400			36		2	3XLT400400S
XLT630	500			36		2	3XLT630500S
	630			36		2	3XLT630630S

800V AC 4 Poles LV Moulded Case Circuit Breakers (for Photovoltaic Systems)

New Product!



Type Code	Rated Current In (A)	Thermal Adj. Current Ir (A)	Instantaneous Tripping Current Im (A)	Breaking Capacity (Icu)	Suitable Shunt Trip Release	Pcs in a Box	Order Code
Thermal Adjustable - Magnetic Fixed							
XLT160N	20	(0.7-1)xIn	320A	36	K0250AB230AC K0250AB030DC	6	4XLT160020S
	25			36		6	4XLT160025S
	32			36		6	4XLT160032S
	40	(0.7-1)xIn	10xIn	36		6	4XLT160040S
	50			36		6	4XLT160050S
	63			36		6	4XLT160063S
	80			36		6	4XLT160080S
	100			36		6	4XLT160100S
	125			36		6	4XLT160125S
	160			36		6	4XLT160160S
Thermal Adjustable - Magnetic Adjustable							
XLT250N	100	(0.7-1)xIn	(5-10)xIn	36	K0250AB230AC K0250AB030DC	6	4XLT250100S
	125			36		6	4XLT250125S
	160			36		6	4XLT250160S
	200			36		6	4XLT250200S
	250			36		6	4XLT250250S
XLT400N	320			36		2	4XLT400320S
	400			36		2	4XLT400400S
XLT630N	500			36		2	4XLT630500S
	630			36		2	4XLT630630S

800V AC LV Moulded Case Circuit Breaker Accessories

Shunt Trip Release		
Applicable MCCB	Coil Voltage	Order Code
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	230V AC	K0250AB230AC
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	24-30V DC	K0250AB030DC

Undervoltage Release - 400V AC	
Applicable MCCB	Order Code
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	K0250DG400AC

Auxiliary Contact		
Applicable MCCB	Contact Number	Order Code
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	1NO+1NC	K0250YK

Alarm Contact		
Applicable MCCB	Contact Number	Order Code
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	1NO+1NC	K0250AK

Mechanical Pad Lock	
Applicable MCCB	Order Code
XLT160-XLT250-XLT400-XLT630-XLT160N-XLT250N-XLT400N-XLT630N	SEMK101

Motor Operator - 230V AC	
Applicable MCCB	Order Code
XLT160-XLT250	K0250MM
XLT160N-XLT250N	K0250MMN
XLT400-XLT630	MLT0630MM
XLT400N-XLT630N	MLT0630MMN

Rotary Handle (with extension shaft)	
Applicable MCCB	Order Code
XLT160-XLT250-XLT160N-XLT250N	K0250DK
XLT400-XLT630-XLT400N-XLT630N	KLT630DK

Extension Rotary Handle (Direct Assembly)	
Applicable MCCB	Order Code
XLT160-XLT250-XLT160N-XLT250N	K0250DU
XLT400-XLT630-XLT400N-XLT630N	KLT630DU

DC LV Moulded Case Circuit Breaker

Circuit Breaker Type	Accessory	Feature	Order Code
2DC250	Shunt Trip Release	230V AC	DC250AB230AC
	Alarm Contact		DC250AK
	Auxiliary Contact		DC250YK
	Alarm + Auxiliary Contact		DC250AYK
2DC630	Shunt Trip Release	230V AC	DC630AB230AC
	Alarm Contact		DC630AK
	Auxiliary Contact		DC630YK
	Alarm + Auxiliary Contact		DC630AYK
	Rotary Handle (Direct Assembly)		DC630DK
	Motor Mechanism	230V AC	DC630MM

800V AC 3 Poles Fixed Air Circuit Breakers

New Product!



Type Code	Rated Current (A)	Adjustable Current Range (Ir1)	Icu 800V (kA)	Ics 800V (kA)	Operation Mechanism	Order Code
XLFA-2000	630	252-630	65	65	Manual	XLFA0630H3
	800	320-800	65	65	Manual	XLFA0800H3
	1000	400-1000	65	65	Manual	XLFA1000H3
	1250	500-1250	65	65	Manual	XLFA1250H3
	1600	640-1600	65	65	Manual	XLFA1600H3
	2000	1200-2000	65	65	Manual	XLFA2000H3
XLFA-3200	2500	1000-2500	65	65	Manual	XLFA2500H3
	3200	1280-3200	65	65	Manual	XLFA3200H3
XLFA-4000	4000	1600-4000	65	65	Manual	XLFA4000H3
XLFA-6300	5000	2000-5000	65	65	Manual	XLFA5000H3
	6300	2520-6300	65	65	Manual	XLFA6300H3
XLFA-2000	630	252-630	65	65	Motorized	XLFA0630M3
	800	320-800	65	65	Motorized	XLFA0800M3
	1000	400-1000	65	65	Motorized	XLFA1000M3
	1250	500-1250	65	65	Motorized	XLFA1250M3
	1600	640-1600	65	65	Motorized	XLFA1600M3
	2000	1200-2000	65	65	Motorized	XLFA2000M3
XLFA-3200	2500	1000-2500	65	65	Motorized	XLFA2500M3
	3200	1280-3200	65	65	Motorized	XLFA3200M3
XLFA-4000	4000	1600-4000	65	65	Motorized	XLFA4000M3
XLFA-6300	5000	2000-5000	65	65	Motorized	XLFA5000M3
	6300	2520-6300	65	65	Motorized	XLFA6300M3

800V AC 4 Poles Fixed Air Circuit Breakers

New Product!



Type Code	Rated Current (A)	Adjustable Current Range (Ir1)	Icu 800V (kA)	Ics 800V (kA)	Operation Mechanism	Order Code
XLFA-2000	630	252-630	65	65	Manual	XLFA0630H4
	800	320-800	65	65	Manual	XLFA0800H4
	1000	400-1000	65	65	Manual	XLFA1000H4
	1250	500-1250	65	65	Manual	XLFA1250H4
	1600	640-1600	65	65	Manual	XLFA1600H4
	2000	1200-2000	65	65	Manual	XLFA2000H4
XLFA-3200	2500	1000-2500	65	65	Manual	XLFA2500H4
	3200	1280-3200	65	65	Manual	XLFA3200H4
XLFA-4000	4000	1600-4000	65	65	Manual	XLFA4000H4
XLFA-6300	5000	2000-5000	65	65	Manual	XLFA5000H4
	6300	2520-6300	65	65	Manual	XLFA6300H4
XLFA-2000	630	252-630	65	65	Motorized	XLFA0630M4
	800	320-800	65	65	Motorized	XLFA0800M4
	1000	400-1000	65	65	Motorized	XLFA1000M4
	1250	500-1250	65	65	Motorized	XLFA1250M4
	1600	640-1600	65	65	Motorized	XLFA1600M4
	2000	1200-2000	65	65	Motorized	XLFA2000M4
XLFA-3200	2500	1000-2500	65	65	Motorized	XLFA2500M4
	3200	1280-3200	65	65	Motorized	XLFA3200M4
XLFA-4000	4000	1600-4000	65	65	Motorized	XLFA4000M4
XLFA-6300	5000	2000-5000	65	65	Motorized	XLFA5000M4
	6300	2520-6300	65	65	Motorized	XLFA6300M4

Accessories



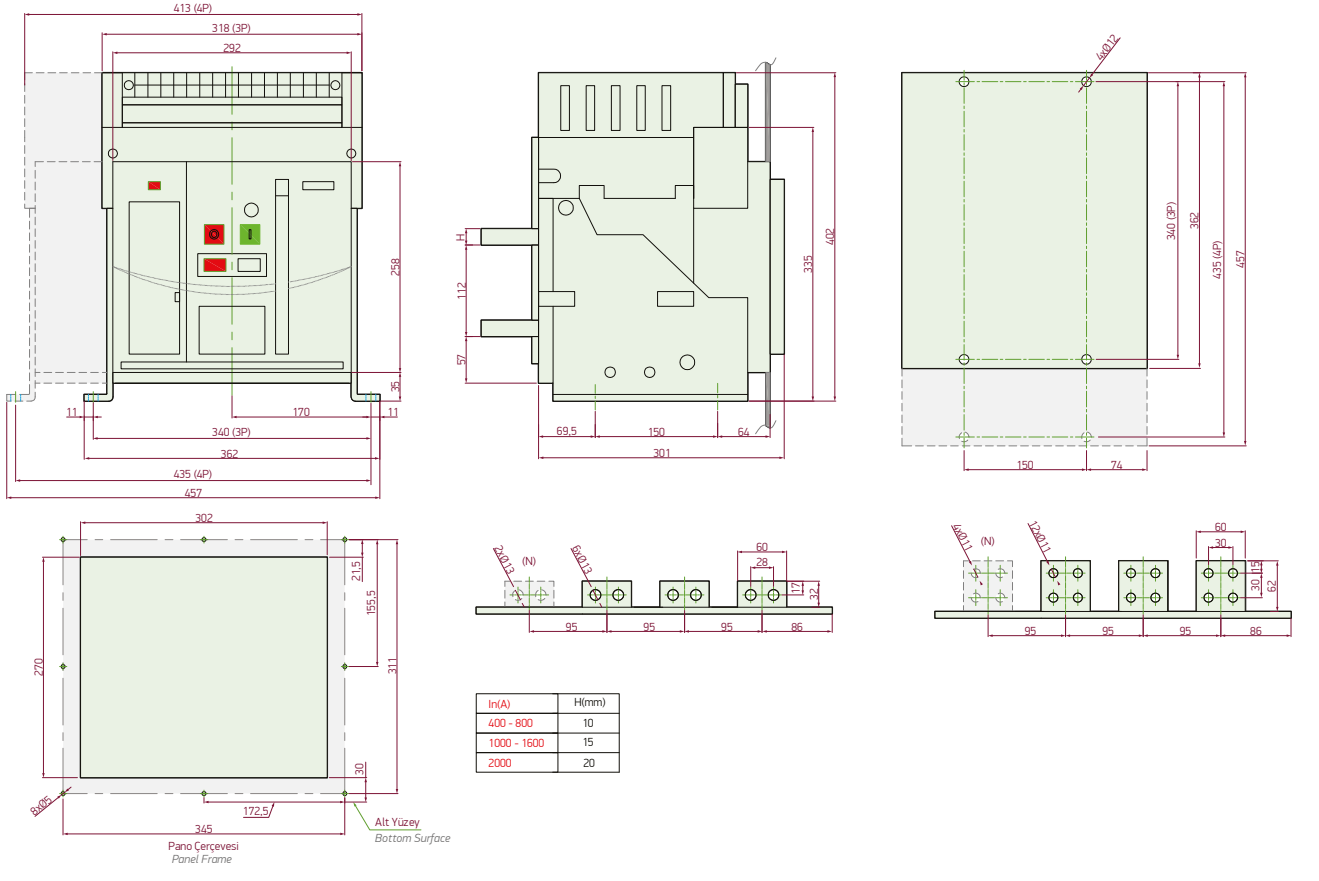


Type Code	Description	Features	Suitable Air Circuit Breakers	Order Code
SAAB	Shunt Trip Coil	230V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SAAB
SAKB	Closing Coil	230V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SAKB
SADG	Undervoltage Release - Without Delay	230V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SADG230
	Undervoltage Release - Without Delay	400V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SADG400
SAGDG	Undervoltage Release - With Delay	230V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SAGDG230
	Undervoltage Release - With Delay	400V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SAGDG400
SRTC* NEW	Undervoltage Release (with delay) + Closing Coil + RTC Switch	230V AC	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SRTC-230AC
SAM-1	Motor Operator (630 ... 2000A)	230V AC	XLFA-2000	SAM1
SAM-2	Motor Operator (2500 ... 6300A)	230V AC	XLFA-3200, XLFA-4000	SAM2
SAM-3	Motor Operator (5000 ... 6300A)	230V AC	XLFA-6300	SAM3
SAMK	Mechanical Interlock	Wire Type	XLFA-2000, XLFA-3200, XLFA-4000, XLFA-6300	SAMK

Note: When performing transfer operation in air circuit breakers, low voltage coil and closing coil should not be activated at the same time. To prevent this situation, it is recommended to use a undervoltage Release (with delay) + closing coil + RTC switch combination.

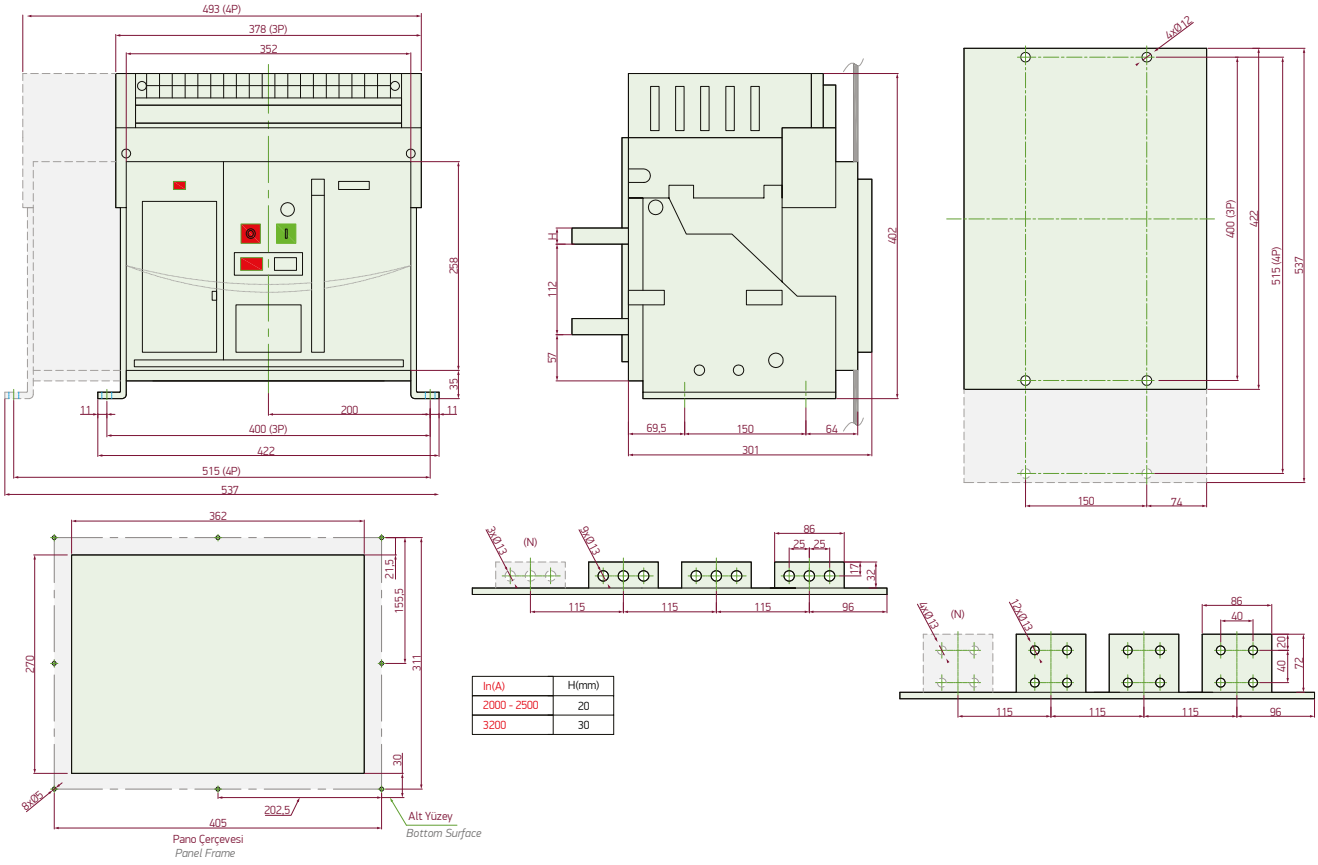
Dimensions

XLFA-2000 (3P-4P)



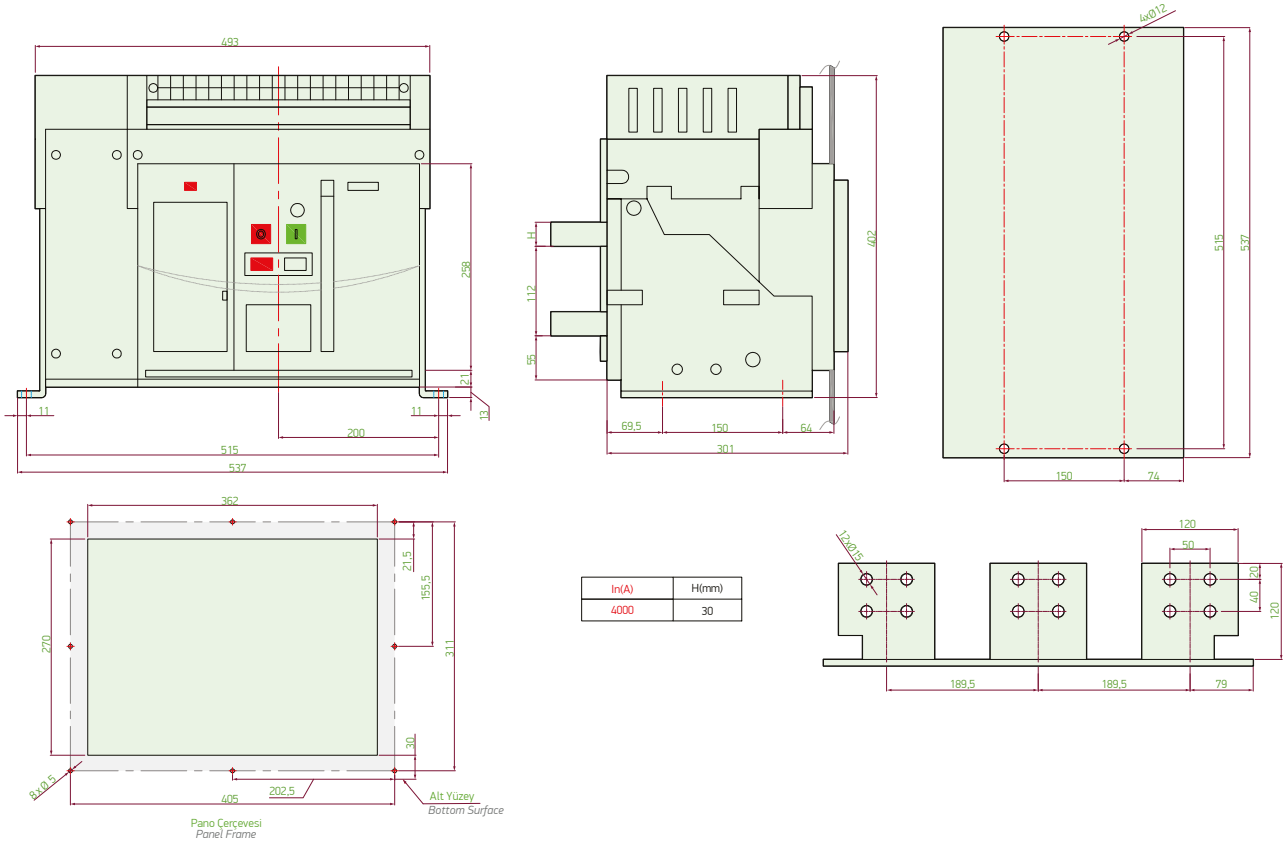
In(A)	H(mm)
400 - 800	10
1000 - 1600	15
2000	20

XLFA-3200 (3P-4P)



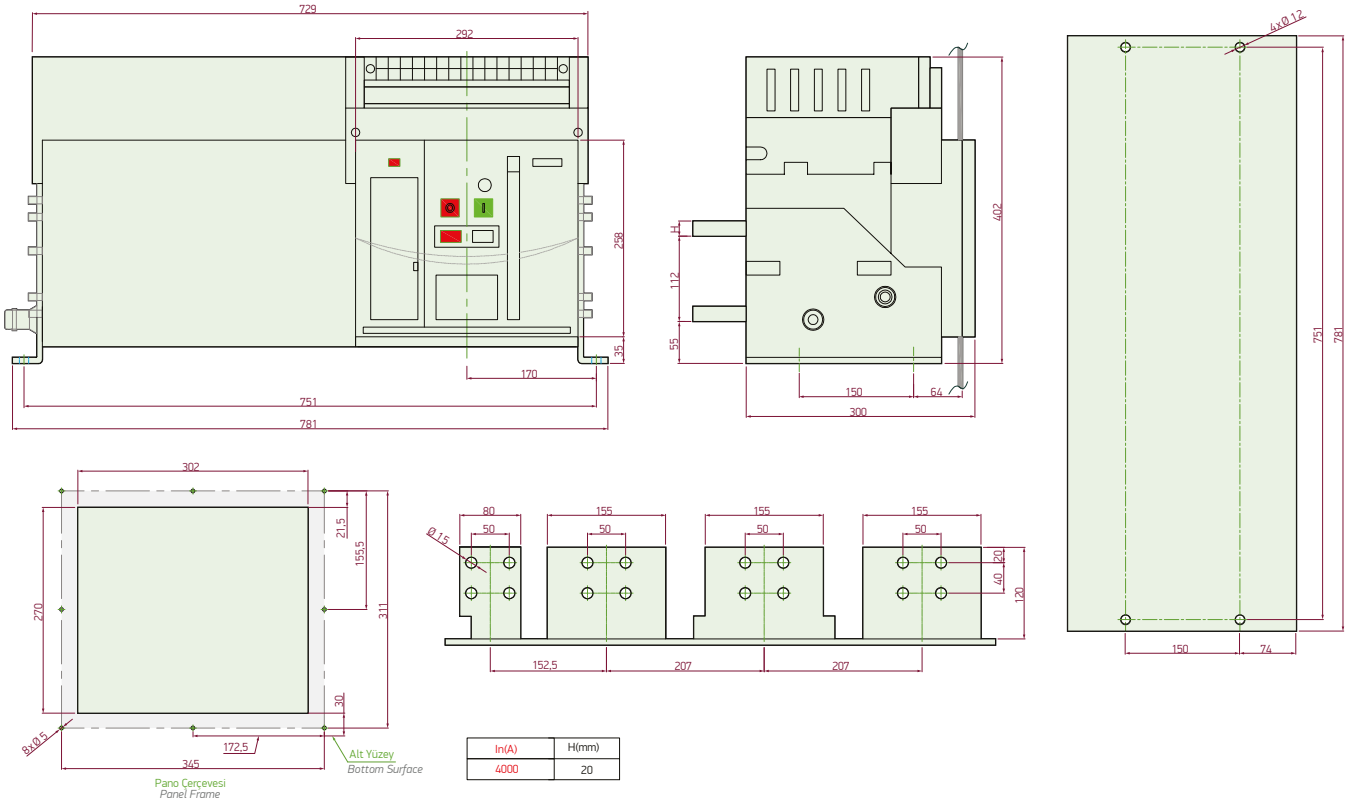
In(A)	H(mm)
2000 - 2500	20
3200	30

XLFA-4000 (3P)



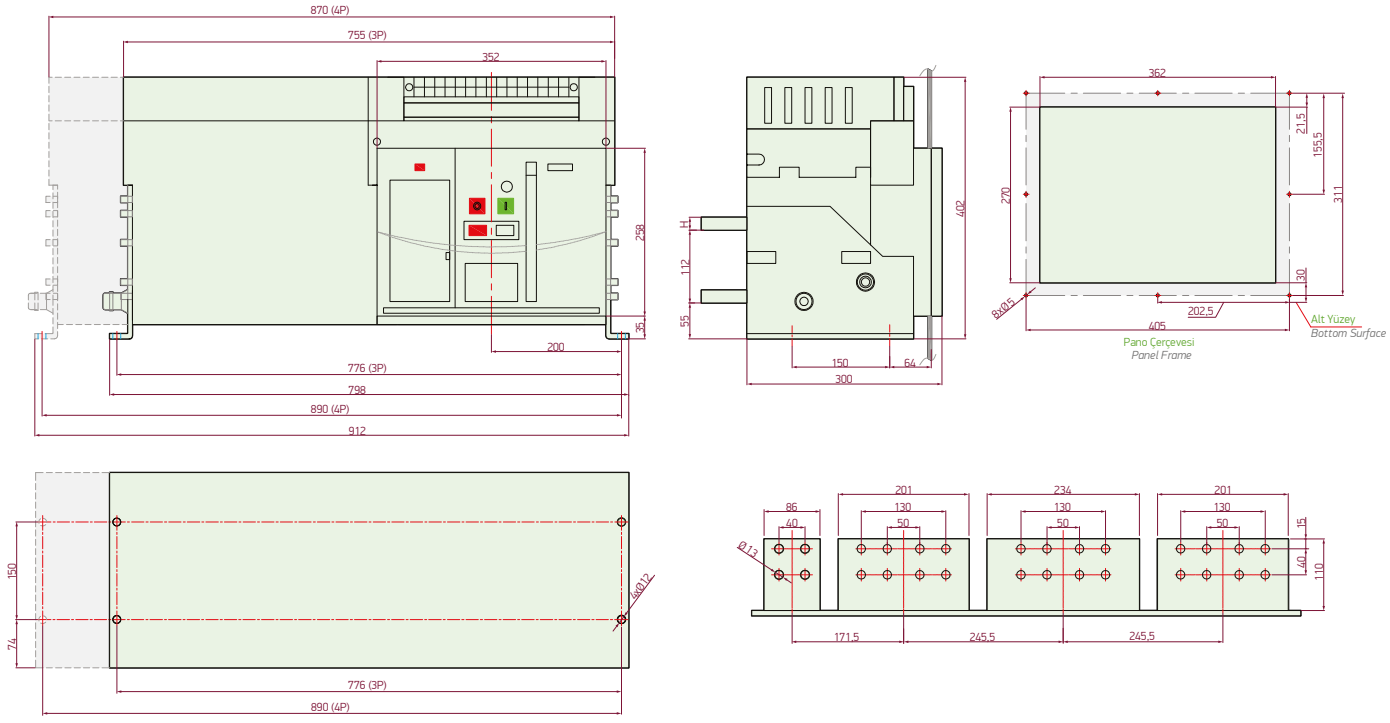
In(A)	H(mm)
4000	30

XLFA-4000 (4P)



In(A)	H(mm)
4000	20

XLFA-6300 (3P-4P)



800V AC Double Indicator NH Fuses (Steatite Body)

New Product!



Size	Rated Current In (A)	Breaking Capacity (kA)	Minimum Order	Pcs in a Box	Order Code
NH00	16	50	10	96	SNH00I0016S
	20	50	10	96	SNH00I0020S
	25	50	10	96	SNH00I0025S
	32	50	10	96	SNH00I0032S
	40	50	10	96	SNH00I0040S
	50	50	10	96	SNH00I0050S
	63	50	10	96	SNH00I0063S
NH1	63	80	3	36	SNH1I00063S
	80	80	3	36	SNH1I00080S
	100	80	3	36	SNH1I00100S
	125	80	3	36	SNH1I00125S
	160	80	3	36	SNH1I00160S
NH2	125	120	3	24	SNH2I00125S
	160	120	3	24	SNH2I00160S
	200	120	3	24	SNH2I00200S
	250	120	3	24	SNH2I00250S
NH3	250	120	3	24	SNH3I0250S
	315	120	3	24	SNH3I0315S
	400	120	3	24	SNH3I0400S

800V AC NH Fuse Bases



Size	Rated Current In (A)	Body Material	Minimum Order	Box Qty	Order Code
NH00	160	BMC	5	45	SNB00
NH1	250	BMC	5	15	SNB01
NH2	400	BMC	5	9	SNB02
NH3	630	BMC	5	9	SNB03

800V AC Horizontal Type Switch Disconnectors

New Product!



Type Code	Rated Current In (A)	Boy	Minimum Order	Pcs in a Box	Order Code
SFH-160	63	00 (without fuse)	1	9	SFH160S
SFH-250	160	1 (without fuse)	1	3	SFH250S
SFH-400	250	2 (without fuse)	1	3	SFH250S
SFH-630	400	3 (without fuse)	1	3	SFH250S

Note: Horizontal type switch disconnectors are shipped without fuse.

800V AC Surge Protection Device for String Inverter Protection (Tip 1+Tip 2, B+C sınıfı)

New Product!



Type	Number of poles	Uc (V AC)	Iimp (kA)	Imax (kA)	In (kA)	Up (V)	PE grounding cross section*	Pcs in a Box	Order Code
SLP12.5-950	3P	950	12.5	100	20 (8/20µs)	4	25mm²	32	**SLP12.5-950**

Note: 800V AC string inverter protection surge protection devices is used to protect string inverters in solar energy systems.

Earth Leakage Detection Relay

New Product!



Type Code	Threshold Current (A)	Tripping Time (s)	Work Class	Order Code
SAR-53LE	0,03 - 30	0-10 (Does not cover below 30mA)	F (with harmonic filter)	**SAR53LE**

800V AC Residual Current Circuit Breakers (B Type) 10 kA



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn (mA)	Operating characteristic	Pcs in a Box	Order Code
SKM-2	25	**2P**	Shock Protection (AC residual current Pulsating DC residual current Smooth DC residual current Mixed frequency current up to 1kHz)	30 mA	Instantaneously	100	**SKM2025030**
	40					100	**SKM2040030**
	63					100	**SKM2063030**
	25	**2P**	Fire and Equipment Protection (AC residual current Pulsating DC residual current Smooth DC residual current Mixed frequency current up to 1kHz)	300 mA	Instantaneously	100	**SKM2025300**
	40					100	**SKM2040300**
	63					100	**SKM2063300**



Type Code	Rated Current In (A)	Number of poles	Protection	Rated Residual Current IΔn (mA)	Operating characteristic	Pcs in a Box	Order Code
SKM-4	25	**4P**	Shock Protection (AC residual current Pulsating DC residual current Smooth DC residual current Mixed frequency current up to 1kHz)	30 mA	Instantaneously	50	**SKM4025030**
	40					50	**SKM4040030**
	63					50	**SKM4063030**
	25	**4P**	Fire and Equipment Protection (AC residual current Pulsating DC residual current Smooth DC residual current Mixed frequency current up to 1kHz)	300 mA	Instantaneously	50	**SKM4025300**
	40					50	**SKM4040300**
	63					50	**SKM4063300**



Sustainability and Eco-Friendly Production

The First and Only Domestic Manufacturer with a Carbon Footprint Verification Certificate in the LV Switchgear field. As Sigma Elektrik, we carry a great responsibility to add value to the future and protect our environment with our determined steps in the field of sustainability.

We are proud to be the first and only domestic manufacturer brand among LV switchgear manufacturers in Türkiye having the ISO 14064-3:2019 Carbon Footprint Verification Certificate. In the scope of our goal of reducing carbon emissions, we aim to be a pioneer in the sustainability journey with the mission of promoting a cleaner world with our eco-friendly production processes. Sigma Elektrik offers eco-friendly solutions at every step to contribute to projects that shape the future and minimize our environmental impact.


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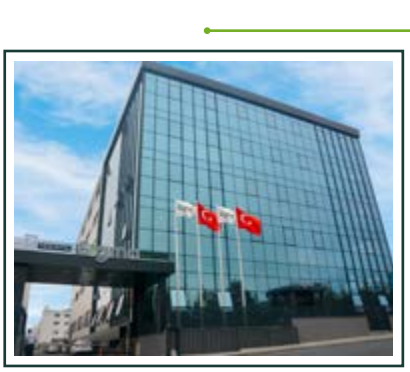
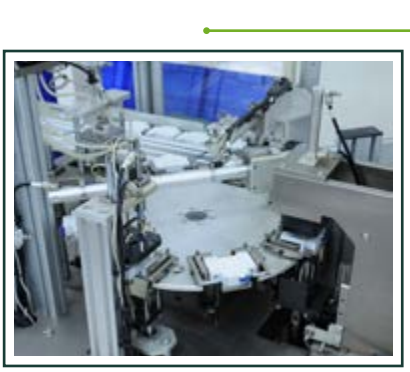

EAC

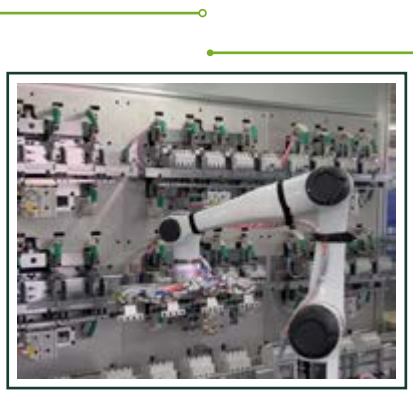

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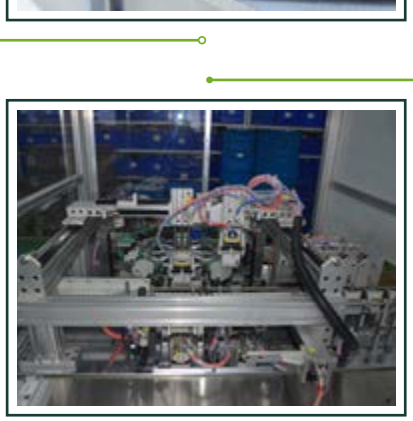












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