

Cuadros de protección de CA para salida de inversor

Descripción de los componentes incluidos en cada cuadro de protección



Cuadro	Magnetotérmico	Diferencial	Sobretensiones	Envolvente
MGAC2K11A030	EPBE63M1NC16	EPR2A025030	SGS1C2-420-20	SG-S06WT
MGAC2K11A300		EPR2A025300		
MGAC3K11A030	EPBE63M1NC20	EPR2A025030		
MGAC3K11A300		EPR2A025300		
MGAC5K11A030	EPBE63M1NC32	EPR2A040030		
MGAC5K11A300		EPR2A040300		
MGAC6K11A030	EPBE63M1NC40	EPR2A040030		
MGAC6K11A300		EPR2A040300		
MGAC8K11A030	EPBE63M1NC50	EPR2A063030		
MGAC8K11A300		EPR2A063300		
MGAC5K33A030	EPB63M4C10	EPR4A025030	SGS1C4-420-20	SG-S12WT
MGAC5K33A300		EPR4A025300		
MGAC10K33A030	EPB63M4C20	EPR4A025030		
MGAC10K33A300		EPR4A025300		
MGAC16K33A030	EPB63M4C32	EPR4A040030		
MGAC16K33A300		EPR4A040300		
MGAC20K33A030	EPB63M4C40	EPR4A040030		
MGAC20K33A300		EPR4A040300		
MGAC25K33A030	EPB63M4C50	EPR4A063030		
MGAC25K33A300		EPR4A063300		
MGAC30K33A030	EPB63M4C63	EPR4A063030		
MGAC30K33A300		EPR4A063300		
MGAC40K33A030	EPB63M4C80	EPR4A080030		
MGAC40K33A300		EPR4A080300		
MGAC60K33A030	EPB63M4C100	EPR4A100030		
MGAC60K33A300		EPR4A100300		

EPBE63M Series Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1
Breaking capacity	6kA
Protection	Against overload and short circuit
Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated voltage	AC: 1P, 1P+N, 2 Pole 240V Rated insulation voltage U _i : 500V Rated impulse withstand voltage U _{imp} : 4kV Energy limiting :class 1
Ambient temperature (°C)	-5~ 40
Characteristic	Thermal operating limit: (1.13-1.45) x I _n Magnetic operating: C: (5-10) x I _n
Number of poles	1P, 1P+N, 2P
Type of trip	Thermal / magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	16mm ² flexible or 25mm ² rigid up to 25A ratings 25mm ² flexible or 35mm ² rigid from 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole



EPBE63M



EPBE63M 1P+N

Rated current (A)	C curve
16	EPBE63M1NC16
20	EPBE63M1NC20
32	EPBE63M1NC32
40	EPBE63M1NC40
50	EPBE63M1NC50

EPR Series Residual Current Circuit Breaker

Technical data

Standard	EN / IEC61008-1
Rated conditional short-circuit current, Inc	6kA,10kA
Protection	Ground fault
Rated current, In	16,25,32,40,50,63,80A
Number of poles	2(1+N),4(3+N)pole
Rated sensitivity currents, I Δ n	10,30,100,300mA
Rated residual non-operating current	0.5 X I Δ n
Rated impulse withstand voltage Uimp	4000V
Rated voltages	2pole 240VAC 4pole 415VAC

Ambient temperature (°C)	-25~+40,Max. 95%humidity
Residual current off-time at I Δ n	≤0.1s
Rated residual current making & breaking capacity, I Δ m	500A for In=16,25,32,40,50A 630A for In=63A 800A for In=80A
Type of trip	Electro-magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 25mm ²
Protection degree	IP20
Installation	35mm DIN rail

1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,25,32	2000	2000	240
40,50,63,80	2000	1000	120

2. Breaking time of residual current

Max.breaking time					
In (A)	I Δ n(A)	I Δ n	2I Δ n	5I Δ n	5A,10A,20A,50A,100A,200A,500A
16,25,32,40,50,63,80	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s



EPR-2P

Nº Polos	I Δ n	Int. (A)	Clase A
2P	30mA	25	EPR2A025030
		40	EPR2A040030
		63	EPR2A063030
	300mA	25	EPR2A025300
		40	EPR2A040300
		63	EPR2A063300
4P	30mA	25	EPR4A025030
		40	EPR4A040030
		63	EPR4A063030
	300mA	80	EPR4A080030
		100	EPR4A100030
		25	EPR4A025300
		40	EPR4A040300
		63	EPR4A063300
		80	EPR4A080300
100	EPR4A100300		

SGS1 Series

Surge Protective Device



Technical data

Standard	Confirming to IEC61643-1
Protection	Protect electric system and on-loading electrical apparatus from thunder and instantaneous over-voltage
Ambient temperature	-5°C to +45°C
Number of poles	1P, 2P, 3P, 4P
Electric ratings	230/400V, AC50/60Hz
Response time	Less than 25ms
On-Off indicating window	Green normal function Red functionless, immediate replacement required
Pollution grade	II
Installation class	I, II, III
Type of terminal	Pin type
Terminal capacity	Solid wire cross-section is 1-6mm ² Stranded wire cross-section is 0.75-4mm ²
Installation	Mounting on 35mm DIN rail
Width	17.5mm per pole
Ground system	"TT, TN-S, TN-C-S" are applicable to the ground system of the protector

1. Technical data

Technic SG data DFG	Type	SGS1-D/ [-140-5]	SGS1-D/ [-275-5]	SGS1-D/ [-320-5]	SGS1-D/ [-385-5]	SGS1-D/ [-420-5]	SGS1-C/ [-140-15]	SGS1-C/ [-275-20]	SGS1-C/ [-320-20]	SGS1-C/ [-385-20]	SGS1-C/ [-420-20]	SGS1-C/ [-550-20]	SGS1-B/ [-320-30]	SGS1-B/ [-385-30]
Max.continuous operationSG vol.(Uc)		140V	275V	320V	385V	420V	140V	275V	320V	385V	420V	550V	320V	385V
Level of vol. protection(U _p <)		0.8kV	1.2kV	1.5kV	1.8kV	2.0kV	0.8kV	1.2kV	1.5kV	1.8kV	2.0kV	2.5kV	2.0kV	2.5kV
NominSG discharge current I _n (8/20us)kA		5	5	5	5	5	15	20	20	20	20	20	30	30
Max discharge current I _{max} (8/20us)kA		10	10	10	10	10	40	40	40	40	40	40	60	60
ns		< 25					< 25					< 25		
Pole width(mm)							18							
Colour		yellow					gray					red		
Protection degree		IP20					IP20					IP20		
MetirSG of cover		PBT					PBT					PBT		
Circuit current		10~16A					25~32A					25~32A		
Wiring	L, N	2.5~35mm ²					2.5~35mm ²					2.5~35mm ²		
	PE	4.0~35mm ²					4.0~35mm ²					4.0~35mm ²		

SGS1 Surge Protective Device	Type	Number of Poles	Max.Cont. operating voltage U _c (V)	Max.discharge current I _{max} (8/20) per pole(kA)	Nominal discharge current I _n (8/20) per pole (kA)	Voltage protection level U _p (kV)	Applicable grounding system
	SGS1-C/2-420-20	2	420	20	40	<2.0	TT
	SGS1-C/4-420-20	4	420	20	40	<2.0	TT

SG-F/S Series Consumer Units

Technical data



Standard	IEC60439-3
Approval	CE
Modules (No.)	2,4,6,8,12,18,24,36
Row	Single row for 4, 6, 8, 12, 18 modules 2 rows for 24 modules 3 rows for 36 modules
Rated voltage In(A)	63,100
Color	White RAL 9003 and Grey RAL 7035
Color of door	Transparent, non Transparent
Mounting type	Surface, Flush
Degree of protection	IP30
Material	PS or ABS for body, PC for door
Fire resistance	650°C/30s
Ambient temperature (°C)	-5~+40, max.95% humidity
Storage temperature(°C)	-40~+75°C

SG-S Surface Mounting Series



12way

Type code	Number of module	Rated current In(A)	Color of base	Color of door
SG-S06WT	6	63/100	White	Transparent
SG-S12WT	12	63/100	White	Transparent