DATASHEET - SPBT12-NPE100

Lightning current and surge arresters, 100 kA, N-space unit

Part no. SPBT12-NPE100
158307

EL Number (Norway) 1609774

General specifications	
Product name	Eaton Moeller series xPole - SPBT12 Surge protection device
Part no.	SPBT12-NPE100
EAN	4015081548859
Product Length/Depth	80 millimetre
Product height	65 millimetre
Product width	35 millimetre
Product weight	0.241 kilogram
Compliances	RoHS conform
Product Tradename	xPole - SPBT12
Product Type	Surge protection device
Product Sub Type	None
Delivery program	
Application	Utility buildings Residential buildings Open areas
Number of poles	Single-pole
Type	Surge arrester
Technical Data - Electrical	
Voltage protection level	1.5 kV
Voltage protection level (DC+ - DC-)	0 kV
Voltage protection level (DC+/DC- - PE)	0 kV
Voltage protection level (L-N)	0 kV
Voltage protection level (L-PE)	1.5 kV
Voltage protection level (N-PE)	1.5 kV
Nominal voltage at AC	255 V
Nominal voltage at DC	0 V
Continuous voltage at AC - max	255 V
Continuous voltage at DC - max	0 V
PV-voltage - max	0 V
Lightning impulse current (10/350 µs)	100 kA
Follow current extinguishing capability	0 kA
Signalling at the device	Optic
Specific energy (W/R)	2500 kJ/Ohm
Technical Data - Mechanical	
Frame	2 modular spacing
Mounting method	DIN rail (top hat rail) 35 mm
Conductor cross section (flexible, fine-strand) - max	0 mm^2
Conductor cross section (solid, solid-strand) - max	35 mm^2
Degree of protection	IP20
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	0 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	0 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	70 °C

Additional information		
Features		Voltage switching spark gap technology
System configuration type		Other TN
Test class		Type 1 + 2

Technical data ETIM 9.0

Earthing, lightning and surge protection (EG000021) / Combined arrester for power supply systems (EC001457)

Electric engineering, automation, process control engineering / Internal and external lightning protection / Combined SPD for energy and information technology / Energy and MSR technology (ecl@ss13-27-17-16-01 [AHE455002])

System configuration DC		No
System configuration IT		No
System configuration TN		Yes
System configuration TN-C		No
System configuration TN-C-S		No
System configuration TN-S		No
System configuration TT		No
System configuration other		Yes
Number of poles		1
Lightning impulse current (10/350 µs)	kA	100
Max. continuous voltage AC	V	255
Max. continuous voltage DC	V	0
Nominal voltage AC	V	255
Nominal voltage DC	V	0
Max. PV-voltage	V	0
Voltage protection level	kV	1.5
Voltage protection level L-N	kV	0
Voltage protection level L-PE	kV	1.5
Voltage protection level N-PE	kV	1.5
Voltage protection level (DC+ - DC-)	kV	0
Voltage protection level (DC+/DC- - PE)	kV	0
Follow current extinguishing capability	kA	0
Specific energy (W/R)	kJ/Ohm	2500
Max. overcurrent protection device, parallel connection (fuse)	A	0
Max. overcurrent protection device, series connection (fuse)	A	0
Mounting method		DIN rail (top hat rail) 35 mm
Construction size		2 modular spacing
Max. conductor cross section solid (solid, stranded)	mm^2	35
Max. conductor cross section flexible (fine-strand)	mm^2	0
Remote signalling		No
Signalling at the device		Optical
Test class		Type 1 + 2
Integrated backup fuse		No
Energy-coordinated protection effect with regard to the terminal equipment		No
Voltage switching spark gap technology		Yes
Overcurrent protected voltage tapping		No
Degree of protection (IP)		IP20

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