DATASHEET - SPBT12-280-3+NPE

Lightning current and surge arresters kit, TN-S/TT kit, 3+1p

Part no.	**SPBT12-280-3+NPE**
	158332
EL Number (Norway)	**1609779**

General specifications

Product name	Eaton Moeller series xPole - SPBT12 Surge Protection Device
Part no.	SPBT12-280-3+NPE
EAN	4015081549207
Product Length/Depth	90 millimetre
Product height	69 millimetre
Product width	87.5 millimetre
Product weight	0.668 kilogram
Compliances	RoHS conform
Product Tradename	xPole - SPBT12
Product Type	Surge Protection Device
Product Sub Type	None

Delivery program

Application	Open areas Residential buildings Utility buildings
Number of poles	Four-pole
Type	Surge arrester

Technical Data - Electrical

Voltage protection level	0 kV
Voltage protection level (DC+ - DC-)	0 kV
Voltage protection level (DC+/DC- - PE)	0 kV
Voltage protection level (L-N)	1.5 kV
Voltage protection level (L-PE)	1.5 kV
Voltage protection level (N-PE)	100 kV
Nominal voltage at AC	280 V
Nominal voltage at DC	0 V
Continuous voltage at AC - max	280 V
Continuous voltage at DC - max	0 V
PV-voltage - max	0 V
Lightning impulse current (10/350 µs)	12.5 kA
Follow current extinguishing capability	0 kA
Signalling at the device	Optic
Specific energy (W/R)	2500 kJ/Ohm

Technical Data - Mechanical

Frame	5 modular spacing
Mounting method	DIN rail (top hat rail) 35 mm
Conductor cross section (flexible, fine-strand) - max	35 mm^2
Conductor cross section (solid, solid-strand) - max	25 mm^2
Degree of protection	IP20

Additional information

Features	Voltage switching spark gap technology
System configuration type	Other IT TN TN-S TT
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			Yes
System configuration TN			Yes
System configuration TN-C			No
System configuration TN-C-S			No
System configuration TN-S			Yes
System configuration TT			Yes
System configuration other			Yes
Number of poles			4
Lightning impulse current (10/350 µs)		kA	12.5
Max. continuous voltage AC		V	280
Max. continuous voltage DC		V	0
Nominal voltage AC		V	280
Nominal voltage DC		V	0
Max. PV-voltage		V	0
Voltage protection level		kV	0
Voltage protection level L-N		kV	1.5
Voltage protection level L-PE		kV	1.5
Voltage protection level N-PE		kV	100
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			5 modular spacing
Max. conductor cross section solid (solid, stranded)		mm^2	25
Max. conductor cross section flexible (fine-strand)		mm^2	35
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