Product Datasheet
SPB415D



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Surge Protection Device 4P T2 TNS/TT Uc 275V In 5kA Imax 15kA

Technical Features

Capacity

Number of modules	4

Voltage

Continuous operating voltage Uc	275 V
Voltage protection level Up	1.6 kV
Mode of protection design	Voltage-switching and voltage-limiting components connected in series
Voltage protection level Up N-PE	1500 V
Voltage protection level Up L-N (PEN)	1 kV
Voltage protection level Up L-PE	1.6 kV
Type voltage supply	AC
Reference test voltage Utest AC	255 V
Overvoltage category according to IEC 60947-1	3

Electric current

Max. overcurrent protection device, parallel connection (fuse)	125 A
Max. overcurrent protection device, series connection (fuse)	80 A
Max. discharge current (Imax)	15 kA
Max. discharge current (Imax) L-N (PEN)	15 kA
Max. discharge current (Imax) L-PE	15 kA
Max. discharge current (Imax) N-PE	15 kA
Nominal discharge current In	5 kA
Nominal discharge current In 8 - 20 µs L-N (PEN)	5 kA
Nominal discharge current In 8 - 20 µs N-PE	5 kA
Nominal discharge current In 8 - 20 µs L-PE	5 kA
Follow current interrupting rating	0.1 kA
Short-circuit current rating (Isccr)	25 kA

Dimensions

Height	89.80 mm
Width	71.20 mm
Depth	58.20 mm
Stripping length	16 mm

Safety

Ingress Protection (IP) class	IP20
Protection class	Isolation class II

Use conditions

Operating temperature	-40 - 80 °C
Air humidity protection	5 - 95%
Storage/transport temperature	-40 - 80 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Max. altitude	2000 m

Materials

Product colour	Light grey
RAL code	7035
Material	Polyamide (PA) Polyester

Network configuration	
Network type	TN-S TT
Network TN	No
Network TN-C	No
Network DC	No
Network IT	No
Network TT	Yes
Network TN-C-S	No
Network TN-S	Yes
Equipment	
With remote signalling contact	No
Rated load current IL	80 A
Connection	
Cross-section of top and bottom terminal with screws, for flexible conductors	1.5 - 25.0 mm^2
Cross-section of top and bottom terminal with screws, for rigid conductors	1.5 - 35.0 mm^2
Cross-section flexible conductor	1.5 - 25 mm^2
Cross-section rigid conductor	1.5 - 35 mm^2
Connector/plug type	Screw terminal
Standards	
Surge protection device type	T2
Frequency	
Frequency	50 - 60 Hz
Installation, mounting	
Nominal tightening torque	3 - 4.5 Nm
Suitable for indoor usage	Yes
Architecture	
Type of pole	3P+N
Neutral position	Left
Connection	
Number of connections	1
Configuration	
With integrated protection fuse	No
Connectivity	
Mounting type	DIN rail
Type of connection	Screw connection
Controls and indicators	
With indicator lamp	Yes
Functions	
Disconnector indication	Optical
Suitable for additional system configuration	No
Fuse	
Fuse characteristics	gG
Internal use only	
Standard	IEC/EN 61643-11
Electric current	
Residual current Ipe	< 5 µA

Safety	
TOV behaviour at UT (N-PE)	1200 V AC (200 ms / withstand mode)
Mode of protection	L-N L-PE N-PE
Current tripping factor k	1.6
TOV behaviour at UT (L-N)	350 V AC (5 s / withstand mode) 460 V AC (120 min / safe failure mode)

Voltage	
Nominal voltage	240 - 415 V AC ± 10%

Sustainability	
Halogen free	Yes
REACh-SVHC free	Yes
RoHS conform	Yes