



SPB440D

Surge Protection Device 4P T2 TNS/TT Uc 275V In 20kA Imax 40kA

Technical Features

Capacity

Number of modules	4
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Voltage

Continuous operating voltage U_c	275 V
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)	1.35 kV
Voltage protection level Up L-PE	1.6 kV
Type voltage supply	AC
Reference test voltage U_{test} 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 (I_{max})	40 kA
Max. discharge current (I_{max}) L-N (PEN)	40 kA
Nominal discharge current I_n	20 kA
Nominal discharge current I_n 8 - 20 μ s L-N (PEN)	20 kA
Follow current interrupting rating	0.1 kA
Short-circuit current rating (I_{scor})	25 kA

Dimensions

Height	89.80 mm
Width	71 mm
Depth	65.7 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 input and output with screws, for flexible conductors	1.5 - 25.0 mm ²
Cross-section of input and output with screws, for massive 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
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Frequency

Frequency	50 - 60 Hz
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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
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Configuration

With integrated protection fuse	No
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Connectivity

Mounting type	DIN rail
Type of connection	Screw connection

Controls and indicators

With indicator lamp	Yes
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Functions

Disconnecter indication	Optical
Suitable for additional system configuration	No

Fuse

Fuse characteristics	gG
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Internal use only

Standard	IEC/EN 61643-11
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Electric current

Residual current I _{pe}	< 5 µA
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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%
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Sustainability

Halogen free	Yes
REACH-SVHC free	Yes
RoHS conform	Yes