

Lightning arrester type 1 - SYS-SET/NAK/3 - 2800144

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Surge protection combination type 1, consisting of: 3x FLT 35-260, 1x FLT 100-260, incl. Bridge, protection level < 4 kV, 100 kA (10/350) µs. Width: 87.5 mm (5 Div.)



Key commercial data

Packing unit	1
GTIN	
Custom tariff number	85363030

Technical data

Dimensions

Height	90 mm
Width	87.5 mm
Depth	65.5 mm
Horizontal pitch	5 Div.

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	≤ 95 %

General

IEC power supply system	TN-S
	TT
Housing material	PBT / PA
Inflammability class according to UL 94	V0
Color	black
Standards for clearances and creepage distances	VDE 0110-1
	IEC 60664-1
	IEC 61643-1
Mounting type	DIN rail: 35 mm

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Technical data

General

Type	DIN rail mounting
Number of positions	3
Surge protection fault message	None
Direction of action	3L-N/PE

Protective circuit

IEC test classification	I
	T1
EN type	T1
Nominal voltage U_N	230 V AC (400 V AC)
Maximum continuous operating voltage U_C (L-N)	440 V AC
Maximum continuous operating voltage U_C (N-PE)	260 V AC
U_T (TOV-proof)	440 V AC (5 s / L-N)
U_T (TOV-safe)	1500 V AC (200 ms)
	1200 V AC (200 ms / N-PE)
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 0.1 mA
Operating effective current I_C at U_N	≤ 10 μ A
Standby power consumption P_C	≤ 26 mVA (N-PE)
Max. discharge current I_{max} (8/20) μ s maximum (N-PE)	100 kA
Nominal discharge current I_n (8/20) μ s (L-N)	35 kA
Nominal discharge current I_n (8/20) μ s (N-PE)	100 kA
Impulse discharge current (10/350) μ s charge	17.5 As
Impulse discharge current (10/350) μ s, specific energy	305 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	35 kA (L-N)
Impulse discharge current (10/350) μ s charge	50 As
Impulse discharge current (10/350) μ s, specific energy	2.5 MJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	100 kA (N-PE)
Voltage protection level U_p	≤ 4 kV
Voltage protection level U_p (L-N)	≤ 4 kV
Voltage protection level U_p (N-PE)	≤ 4 kV
Response time	≤ 100 ns
Max. backup fuse with branch wiring	125 A (gL)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Follow current quenching capacity I_{fi} (L-N)	3 kA (260 V)
	1.5 kA (440 V)
Follow current quenching capacity I_{fi} (N-PE)	100 A

Connection, protective circuit

Connection name	Phase conductor connection
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Technical data

Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	3
Connection name	PE conductor connection
Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section stranded min.	16 mm ²
Conductor cross section stranded max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG/kcmil min.	6
Conductor cross section AWG/kcmil max	1

Standards and Regulations

Standards/regulations	IEC 61643-1 1998
	DIN EN 61643-11 2002

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201

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Classifications

eCl@ss

eCl@ss 8.0	27130802
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ETIM

ETIM 2.0	EC001457
ETIM 3.0	EC001457
ETIM 4.0	EC001457
ETIM 5.0	EC000381

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Device marking

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Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Drawings

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Dimensioned drawing

