

Type 1/2 surge protection device - SYS-SET/ 1 - 2880448

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Pluggable lightning current / surge arrester combination, in accordance with type 1+2, coordinated according to the AEC principle. Type 2 arrester with remote indication contact. Version for 3-phase power supply networks with separately installed PE and N (L1, L2, L3, PE, N).

Key commercial data

package_quantity	1
GTIN	4017918981303

Technical data

Dimensions

Height	95800 mm
Width	142.8 mm
Depth	70 mm
Pitch unit	8 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

Housing material	PBT
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	IEC 61643-11
Mounting type	DIN rail: 35 mm
Design	DIN rail module, two-section, divisible
Message: Surge protection fault	Optical, remote indicator contact
Direction of action	L-N & L(N)-PE

Protective circuit

IEC test classification	I + II
EN type	T1 + T2
Lightning protection class	I /100 kA (TT, TN-C-S)
Nominal voltage U _N	240 V AC (230/400 V AC ... 240/415 V AC)

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Protective circuit

Maximum continuous operating voltage U_c (L-N)	350 V AC
Maximum continuous operating voltage U_c (N-PE)	350 V AC
Rated load current I_L	125 A ($T_A = 55^\circ\text{C}$)
Residual current I_{PE}	$\leq 5 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (L-N)	25 kA
Nominal discharge current I_n (8/20) μs (N-PE)	100 kA
Impulse discharge current (10/350) μs , charge	50 As
Impulse discharge current (10/350) μs , specific energy	2.50 MJ/Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	100 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μs (N-PE)	$\leq 1.5 \text{ kV}$
Voltage protection level U_p (L-N)	$\leq 1.5 \text{ kV}$
Voltage protection level U_p (N-PE)	$\leq 1.5 \text{ kV}$
Residual voltage (L-N)	$\leq 1.3 \text{ kV}$
Residual voltage (L-N)	$\leq 1 \text{ kV}$ (at 5 kA)
Residual voltage (L-PE)	$\leq 2.2 \text{ kV}$
Residual voltage (L-PE)	$\leq 1.8 \text{ kV}$ (at 5 kA)
Residual voltage (N-PE)	$\leq 1.5 \text{ kV}$
Residual voltage (N-PE)	$\leq 0.9 \text{ kV}$ (at 5 kA)
Response time (L-N)	$\leq 25 \text{ ns}$
Response time (L-PE)	$\leq 100 \text{ ns}$
Response time (N-PE)	$\leq 100 \text{ ns}$
Max. required backup fuse with branch wiring	315 A (gL/gG)
Max. required backup fuse with V-type through wiring	125 A (gL/gG)
Recommended backup fuse maximum	160 A (gL/gG with branch wiring)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Follow current quenching capacity I_f (L-N)	25 kA (for 264 V AC)
Follow current quenching capacity I_f (L-N)	3 kA (350 V AC)
Follow current quenching capacity I_f (N-PE)	100 A

Connection, protective circuit

Connection method	Screw terminal blocks
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	18 mm
Conductor cross section stranded min.	2.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²

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Connection, protective circuit

Conductor cross section AWG/kcmil min.	13
Conductor cross section AWG/kcmil max	2

Remote indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U _{max} AC	250 V AC
Maximum operating voltage U _{max} DC	125 V DC
Max. operating current I _{max}	1 A AC (inductive)
Max. operating current I _{max}	1 A AC (ohmic)
Max. operating current I _{max}	30 mA DC (inductive)
Max. operating current I _{max}	200 mA DC (ohmic)

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
eCl@ss 8.0	27140201

ETIM

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

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610

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classifications

UNSPSC

UNSPSC 13.2	39121620
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approvals

UL Recognized / KEMA-KEUR / cUL Recognized / GOST / CCA / IEC EE CB Scheme / cULus Recognized /

Approval details

UL Recognized 

KEMA-KEUR 

cUL Recognized 

GOST 

CCA

IECEE CB Scheme 

cULus Recognized 

accessories

Device marking

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accessories

ZBN 18:UNBEDRUCKT - 2809128



Labeled device marker

ZBN 18,LGS:L1-N,ERDE - 2749576



ZBN 18,LGS:ERDE - 2749589



Marker pen

B-STIFT - 1051993



accessories

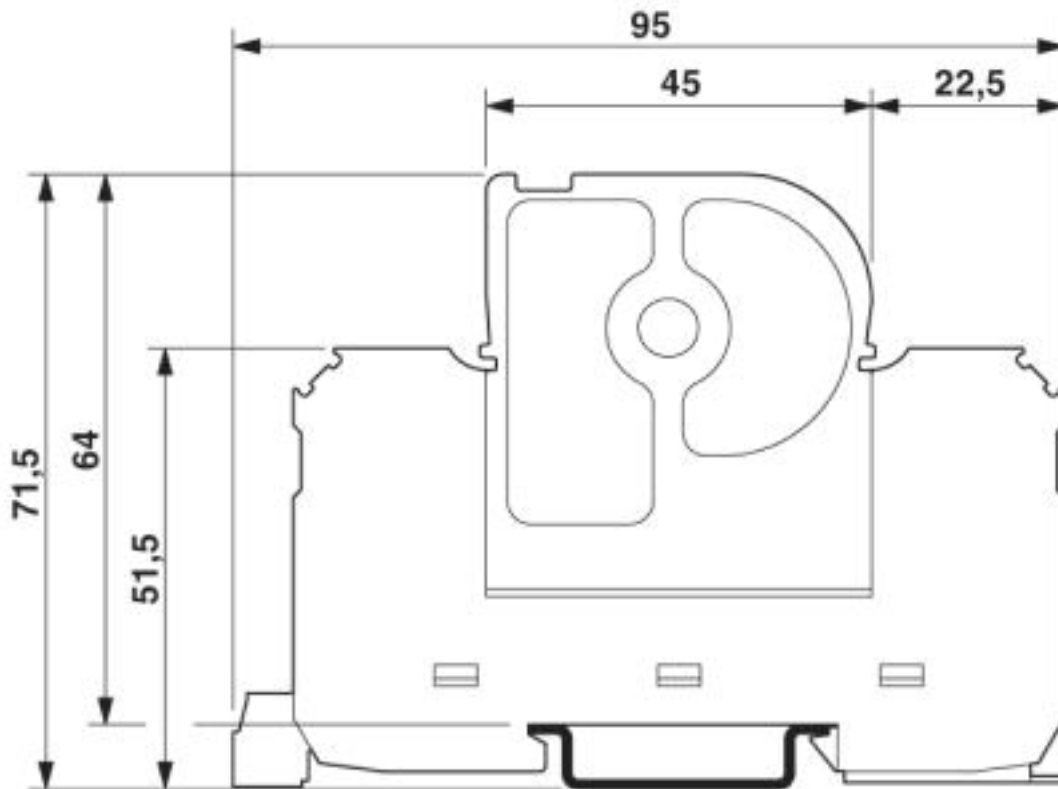
ZBN 18:SO/CMS - 0800763



Type 1/2 surge protection device - SYS-SET/ 1 - 2880448

Drawings

Dimensioned drawing



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