

Type 1/2 surge protection device - SYS-SET/LTE-RRU BOX - 2800603

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Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	4615.6 GRM
Custom tariff number	85369010
Country of origin	Germany

Technical data

Dimensions

Height	361 mm
Width	254 mm
Depth	165 mm

Ambient conditions

Degree of protection	IP66
	IP66
Ambient conditions	A, B
Ambient temperature (operation)	-25 °C ... 55 °C (Above 38 °C, derating of 1.96 A/K)
Ambient temperature (storage/transport)	-40 °C ... 70 °C

General

Housing material	Polycarbonate, glass-fiber-reinforced
Cover material	Polycarbonate, glass-fiber-reinforced
Inflammability class according to UL 94	V2 (Gehäuse / Deckel)
Color	light grey RAL 7035
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1

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General

Surge voltage category	III
Pollution degree	2
Mounting type	Wall mounting/optional mounting on round masts
Type	Installation housing
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 3.00
Surge protection fault message	Optical, remote indicator contact
Direction of action	1L-N & N-PE

Protective circuit

IEC test classification	T1 + T2
EN type	T1 + T2
Nominal voltage U_N	-48 V DC
Maximum continuous operating voltage U_C (L-N)	350 V AC
Maximum continuous operating voltage U_C (N-PE)	350 V AC
U_T (TOV-proof)	≤ 415 V AC (5 s / L-N)
U_T (TOV-safe)	≤ 1200 V AC (200 ms / N-PE)
TOV behavior at U_T	
Rated load current I_L	125 A ($\leq 55^\circ\text{C}$)
Residual current I_{PE}	≤ 0.01 mA
Nominal discharge current I_n (8/20) μs (L-N)	25 kA
Nominal discharge current I_n (8/20) μs (L-PE)	25 kA
Nominal discharge current I_n (8/20) μs (N-PE)	100 kA
Impulse discharge current (10/350) μs charge	12.5 As
Impulse discharge current (10/350) μs , specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	25 kA
Impulse discharge current (10/350) μs charge	50 As
Impulse discharge current (10/350) μs , specific energy	2500 kJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	100 kA
Impulse discharge current (10/350) μs charge	12.5 As
Impulse discharge current (10/350) μs , specific energy	160 kJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	25 kA
Front of wave sparkover voltage at 6 kV (1.2/50) μs (L-N)	≤ 1.5 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μs (L-PE)	≤ 2.2 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μs (N-PE)	≤ 1.5 kV
Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (L-PE)	≤ 2.2 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV

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Protective circuit

Residual voltage (L-N)	$\leq 1.3 \text{ kV (at } I_n)$
	$\leq 1.1 \text{ kV (at } 10 \text{ kA)}$
	$\leq 1 \text{ kV (at } 5 \text{ kA)}$
	$\leq 1 \text{ kV (at } 3 \text{ kA)}$
Residual voltage (L-PE)	$\leq 2.2 \text{ kV (at } I_n)$
	$\leq 2 \text{ kV (at } 10 \text{ kA)}$
	$\leq 1.8 \text{ kV (at } 5 \text{ kA)}$
	$\leq 1.6 \text{ kV (at } 3 \text{ kA)}$
Residual voltage (N-PE)	$\leq 1.5 \text{ kV (at } I_n)$
	$\leq 1 \text{ kV (at } 10 \text{ kA)}$
	$\leq 0.9 \text{ kV (at } 5 \text{ kA)}$
	$\leq 0.8 \text{ kV (at } 3 \text{ kA)}$
Response time (L-N)	$\leq 25 \text{ ns}$
Response time (N-PE)	$\leq 100 \text{ ns}$
Max. backup fuse with branch wiring	315 A AC (gG)
Max. backup fuse with V-type through wiring	125 A AC (gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Short-circuit current self-quenching	100 A (effective (N-PE))
Follow current quenching capacity I_f (L-N)	25 kA (264 V AC)
	3 kA (350 V AC)
Follow current quenching capacity I_f (N-PE)	100 A (350 V AC)

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
	4 lb _f -in.
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
AWG conductor cross section	28 ... 16
	30 ... 14 (UL)
Maximum operating voltage $U_{\text{max. AC}}$	250 V AC

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Remote indicator contact

Maximum operating voltage $U_{\max}$ DC	125 V DC
Max. operating current $I_{\max}$	1 A AC (inductive)
	1 A AC (ohmic)
	30 mA DC (inductive)
	200 mA DC (ohmic)

Standards and Regulations

Standards/regulations	EN 61439-2 2011
	IEC 61439-2 2011

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 3.0	EC001473
ETIM 4.0	EC002498
ETIM 5.0	EC001457

UNSPSC

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

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