

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

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|--|---------------------------------------|
| 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 | <p></p> |
| 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) | ≤ 1.3 kV (at I_n) |
| | ≤ 1.1 kV (at 10 kA) |
| | ≤ 1 kV (at 5 kA) |
| | ≤ 1 kV (at 3 kA) |
| Residual voltage (L-PE) | ≤ 2.2 kV (at I_n) |
| | ≤ 2 kV (at 10 kA) |
| | ≤ 1.8 kV (at 5 kA) |
| | ≤ 1.6 kV (at 3 kA) |
| Residual voltage (N-PE) | ≤ 1.5 kV (at I_n) |
| | ≤ 1 kV (at 10 kA) |
| | ≤ 0.9 kV (at 5 kA) |
| | ≤ 0.8 kV (at 3 kA) |
| Response time (L-N) | ≤ 25 ns |
| Response time (N-PE) | ≤ 100 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

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|--|---------------------------------------|
| 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_{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

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| ETIM 3.0 | EC001473 |
| ETIM 4.0 | EC002498 |
| ETIM 5.0 | EC001457 |

UNSPSC

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