

Lightning/surge arrester type 1/2 - F-MS-T1/T2 50 - 2801136

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Lightning/surge arrester, consisting of base element and protective plug with N-PE total current spark gap, for mounting on NS 35/7,5. Housing width: 17.5 mm (1TE)



Key commercial data

Packing unit	1
GTIN	4 046356 701952
Custom tariff number	85363030

Technical data

Dimensions

Height	90 mm
Width	17.5 mm
Depth	77.5 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20 IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g
Vibration (operation)	7.5g

General

Standards/specifications	IEC 61643-11 2011 EN 61643-11 2012
IEC test classification	I / II T1 / T2

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Technical data

General

EN type	T1 / T2
Lightning protection class	III / IV
Number of ports	One
SPD design	Voltage-limiting type
Mode of protection	N-PE
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PA 6.6
	PBT
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Surge protection fault message	Optical

Protective circuit

Nominal voltage U_N	240/415 V AC (TN-S)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	264 V AC
Rated load current I_L	80 A
Residual current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	1.3 mVA
Nominal discharge current I_n (8/20) μs	12.5 kA
Maximum discharge current I_{max} (8/20) μs	50 kA
Total discharge current I_{Total} (8/20) μs	50 kA
Total discharge current I_{Total} (10/350) μs	50 kA
Follow current interrupt rating I_{fi}	0.1 kA
Voltage protection level U_p	≤ 1.7 kV
Residual voltage U_{res}	≤ 0.6 kV (at I_n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.4 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	≤ 1.7 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 ns

Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	35 mm ²

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Connection data

AWG conductor cross section	15 ... 2
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140299
eCl@ss 5.0	27140202
eCl@ss 5.1	27130801
eCl@ss 6.0	27130802
eCl@ss 7.0	27141140
eCl@ss 8.0	27130802

ETIM

ETIM 3.0	EC000943
ETIM 4.0	EC000381
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

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Approvals

Approval details

EAC

Accessories

Accessories

Bridge

Wiring bridge end cover - MPB 18/3- D - 2809322

End cover for lateral connection of wiring bridges, 3-phase

Device marking

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

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

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

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Accessories

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

Cable-cutting tool - CUTFOX EB - 1204753



Power front cutters, for removing individual contacts from insertion bridges.

Cable-cutting tool - CUTFOX 50 - 1206641



One-hand cable cutter to cut MPB wiring bridges to length

Spare parts

Type 1/2 surge protection plug - F-MS-T1/T2 50 ST - 2800191



N-PE replacement plug for VAL-MS-T1/T2 335/12.5 plug-in lightning/surge arrester.

Drawings

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Circuit diagram



Dimensioned drawing

