Type 2 surge protection plug - F-MS 12 ST - 2817990

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Surge protection plug type 2, with N-PE total current spark gap for base element.

Key commercial data

Packing unit	10 pc
GTIN	4 017918 163648
Weight per Piece (excluding packing)	35.56 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	52.5 mm
Width	17.7 mm
Depth	55.5 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 %

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1
	EN 61643-11

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Technical data

General

Surge voltage category	III
Pollution degree	2
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Number of positions	1
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Surge protection fault message	Optical
Direction of action	N-PE

Protective circuit

IEC test classification	II
	T2
EN type	T2
Nominal voltage U_N	230 V AC
Nominal DC sparkover voltage U_{agn}	500 V ±20 %
Maximum continuous operating voltage U_C	260 V AC
Maximum continuous operating voltage U_C (N-PE)	260 V AC
U_T (TOV-proof)	1200 V AC (200 ms / N-PE)
Nominal frequency f_N	50 Hz
	60 Hz
Residual current I_{PE}	≤ 1 µA
Standby power consumption P_C	0.3 mVA
Max. discharge current I_{max} (8/20) µs	40 kA
Max. discharge current I_{max} (8/20) µs maximum (N-PE)	40 kA
Nominal discharge current I_n (8/20) µs	20 kA
Nominal discharge current I_n (8/20) µs (N-PE)	20 kA
Impulse discharge current (10/350) µs, charge	6 As
Impulse discharge current (10/350) µs, peak value I_{imp}	12 kA
Front of wave sparkover voltage at 6 kV (1.2/50) µs (N-PE)	≤ 1.5 kV
Insulation resistance R_{iso}	> 1 GΩ
Voltage protection level U_p	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Residual voltage	≤ 150 V (at 5 kA)
Residual voltage (N-PE)	≤ 150 V (at 5 kA)
	≤ 400 V
	≤ 250 V (at 10 kA)
	≤ 100 V (at 3 kA)
Response time	≤ 100 ns
Response time (N-PE)	≤ 100 ns
Follow current quenching capacity If (N-PE)	100 A (260 V)

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Technical data

Connection, protective circuit

Connection type IN	FLASHTRAB/VALVETRAB plug-in system
Connection type OUT	FLASHTRAB/VALVETRAB plug-in system

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	EN 61643-11/A11 2007

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

UNSPSC

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

Approvals

Approvals

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ÖVE / IECEE CB Scheme / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / GL / CCA / ÖVE / KEMA-KEUR / CSA / cULus Recognized

Ex Approvals

Type 2 surge protection plug - F-MS 12 ST - 2817990

Approvals

Approvals submitted

Approval details

ÖVE

IECEE CB Scheme

UL Recognized

KEMA-KEUR

cUL Recognized

GOST

GL

CCA

ÖVE

KEMA-KEUR

CSA

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Approvals

cULus Recognized

Accessories

Accessories

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

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

Additional products

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Accessories

Type 2 surge protection device - F-MS 12/FM - 2817974

Surge arrester type 2, consisting of base element with remote indicator contact and protective plug with N-PE total current spark gap for mounting on NS 35/7.5, housing width: 17.5 mm (1 Div.)

Type 2 surge protection device - F-MS 12 - 2817987

Surge arrester type 2, 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 (1 Div.)

Type 2 surge protection base element - VAL-MS BE/FM - 2817738

Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Design: 1-channel

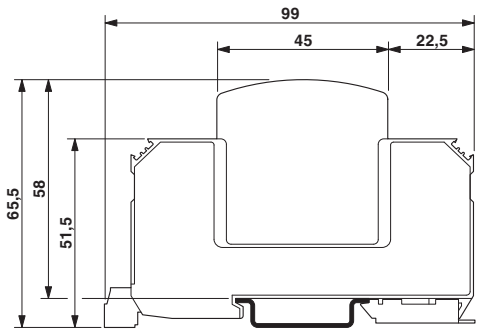
Type 2 surge protection base element - VAL-MS BE - 2817741

Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel

Drawings

Type 2 surge protection plug - F-MS 12 ST - 2817990

Dimensioned drawing



Circuit diagram