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Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318

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Surge protection plug type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning.



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	34.0 GRM
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	52.4 mm
Width	17.5 mm
Depth	55.3 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
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)	25g
Vibration (operation)	5g

General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

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Technical data

General

IEC test classification	II
	T2
EN type	T2
SPD design	Combination type
Mode of protection	L-PE
Mounting type	On base element
Color	black
Housing material	PA 6.6
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical

Additional descriptions

Note	The values specified for the L-L protective path are only valid in connection with VAL-MS/2+0-BE/FM/S2
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Protective circuit

Nominal voltage U_N	5 V AC ... 48 V AC
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	75 V AC
	100 V DC
Residual current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 1 \text{ mVA}$
Nominal discharge current I_n (8/20) μs	10 kA
Nominal discharge current I_n (8/20) μs (L-L)	10 kA
Maximum discharge current I_{max} (8/20) μs	20 kA
Maximum discharge current I_{max} (8/20) μs (L-L)	20 kA
Short-circuit current rating I_{SCCR}	10 kA
Voltage protection level U_p	$\leq 1.4 \text{ kV}$
Voltage protection level U_p (L-L)	$\leq 1.8 \text{ kV}$
Residual voltage U_{res}	$\leq 0.45 \text{ kV}$ (at I_n)
	$\leq 0.35 \text{ kV}$ (at 5 kA)
	$\leq 0.3 \text{ kV}$ (at 3 kA)
Residual voltage U_{res} (L-L)	$\leq 0.9 \text{ kV}$ (at I_n)
	$\leq 0.7 \text{ kV}$ (at 5 kA)
	$\leq 0.6 \text{ kV}$ (at 3 kA)

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Technical data

Protective circuit

Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 1.4 kV
Front of wave sparkover voltage at 6 kV (1.2/50) μ s (L-L)	≤ 1.8 kV
Response time t_A	≤ 100 ns
Response time t_A (L-L)	≤ 100 ns
Max. backup fuse with branch wiring	63 A AC (gG)

Connection data

Connection method	VALVETRAB plug-in system
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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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Approvals

Approvals


GOST / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals


Approvals submitted

Approval details

GOST 

UL Recognized 

cUL Recognized 

cULus Recognized 

Drawings

Circuit diagram



Dimensioned drawing

