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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	10 STK
GTIN	 4 046356 430869

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
IEC test classification	II
	T2
EN type	T2
SPD design	Combination type
Mode of protection	L-PE
	L-L

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Technical data

General

Mounting type	On base element
Color	jet black RAL 9005
Housing material	PA 6.6
Degree of pollution	2
Flammability rating 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 voltage U_C	75 V AC
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
Maximum discharge current I_{max} (8/20) μs	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)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	$\leq 1.4 \text{ kV}$
Front of wave sparkover voltage at 6 kV (1.2/50) μs (L-L)	$\leq 1.8 \text{ kV}$
Response time t_A	$\leq 100 \text{ ns}$
Max. backup fuse with branch wiring	63 A (gG)

Connection data

Connection method	VALVETRAB plug-in system
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UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-N)	75 V AC
Maximum continuous operating voltage MCOV (L+) - (L-)	100 V DC
Nom. voltage	48 V AC

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UL specifications

Nominal voltage	60 V DC
Mode of protection	L-N
	(L+) - (L-)
Power distribution system	1
Measured limiting voltage MLV (L-N)	1760 V
Measured limiting voltage MLV (L+) - (L-)	1760 V
Nominal discharge current I _n (L-N)	10 kA
Nominal discharge current I _n (L+) - (L-)	10 kA

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
eCl@ss 9.0	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

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UL Recognized / cUL Recognized / EAC / cULus Recognized

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

Approvals

Ex Approvals

Approvals submitted

Approval details

UL Recognized

cUL Recognized

EAC

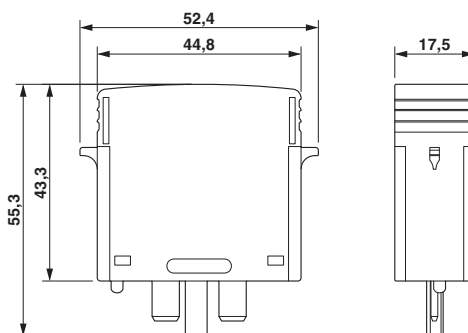
cULus Recognized

Drawings

Circuit diagram



Dimensional drawing





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