

Type 2 surge protection plug - VAL-US-48/40-P - 2910333

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UL Recognized type 2 SPD and IEC type 2 surge protection plug with a varistor and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

Product Description

Surge protective device replacement plug

Your advantages

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Thermal disconnect device for each individual plug
- ✓ Pluggable
- ✓ Mechanical coding of all slots
- ✓ Consists of base element and plug
- ✓ Optical, mechanical status indication for the individual arresters



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626444468

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

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	DC
Mode of protection	L-N
	L-PEN
	N-PE
Mounting type	on base element
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Male
Number of positions	1
Surge protection fault message	optical

Protective circuit

Nominal voltage U_N	60 V DC ±10 %
	-48 V DC ±10 % (RRH)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	100 V DC
Residual current I_{PE}	≤ 450 µA
Standby power consumption P_C	≤ 35 mVA
Nominal discharge current I_n (8/20) µs	15 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 0.55 kV
Residual voltage U_{res}	≤ 0.55 kV (at I_n)
	≤ 0.425 kV (at 10 kA)
	≤ 0.325 kV (at 5 kA)
	≤ 0.275 kV (at 3 kA)
TOV behavior at U_T	100 V AC (5 s / withstand mode)
Max. backup fuse with branch wiring	100 A (gG)

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Technical data

Connection data

Connection method	VALVETRAB plug-in system
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UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV	100 V DC
Nominal voltage	60 V DC
Mode of protection	L-N
	L-G
	N-G
Power distribution system	Single phase
Measured limiting voltage MLV	720 V
Nominal discharge current I_n	20 kA
Maximum Surge Current per Phase	40 kA

Standards and Regulations

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

Drawings

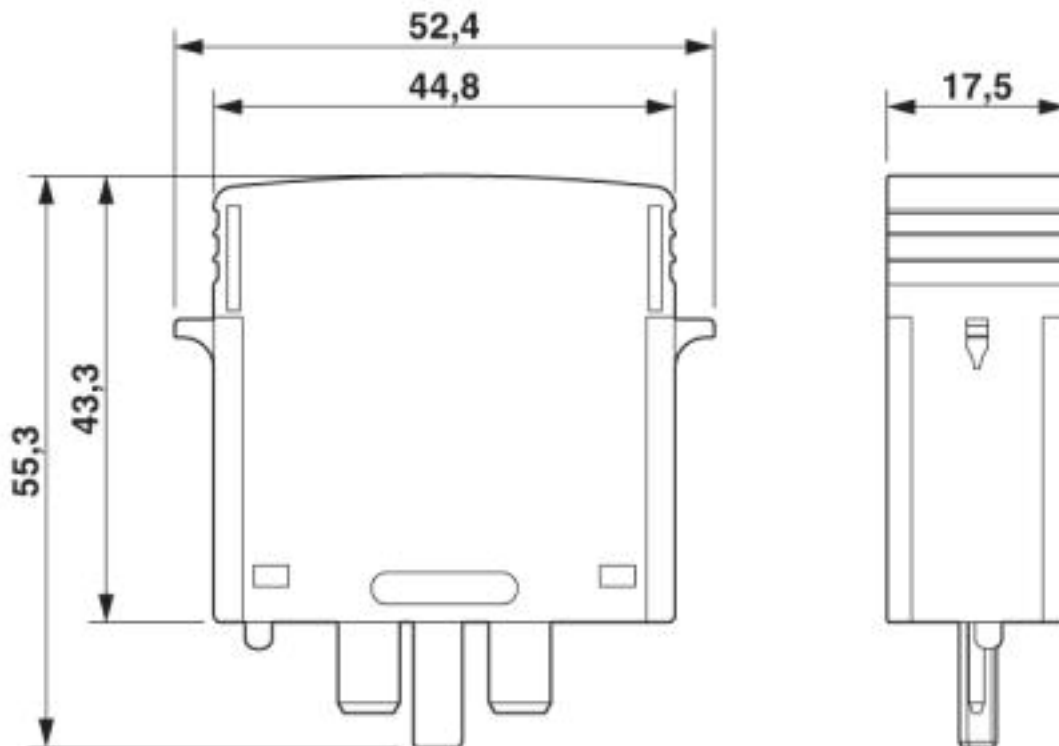
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Circuit diagram



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Dimensional drawing



Classifications

eCl@ss

eCl@ss 6.0	27130800
eCl@ss 7.0	27130890
eCl@ss 8.0	27130890
eCl@ss 9.0	27130890

ETIM

ETIM 5.0	EC002496
ETIM 6.0	EC002497
ETIM 7.0	EC002497

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

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Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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cULus Recognized			
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Accessories

Accessories

Surge arrester

Type 2 surge protection device - VAL-US-48/40/1+0-FM - 2910343



Surge protective device, single channel with remote indicator contact for 48 V DC.

Type 2 surge protection device - VAL-US-48/40/1+1V-FM - 2910344



Surge protective device, two channels with remote indicator contact for 48 V DC, 2-wire plus ground