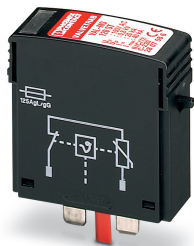


Type 2 surge protection plug - VAL-US-48/40-P - 2910333

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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	 4 0 5 5 6 2 6 4 4 4 4 6 8
GTIN	4055626444468
Weight per Piece (excluding packing)	40.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	52.4 mm
Width	17.5 mm

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

Technical data

Dimensions

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 (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

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

Technical data

Protective circuit

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)

Connection data

Connection method	VALVETRAB plug-in system
-------------------	--------------------------

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

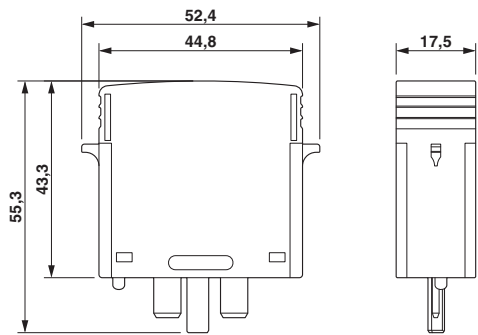
Standards and Regulations

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

Drawings

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

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130890
eCl@ss 11.0	27130890
eCl@ss 6.0	27130800
eCl@ss 7.0	27130890
eCl@ss 9.0	27130890

ETIM

ETIM 6.0	EC002497
ETIM 7.0	EC002497

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

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

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

Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 330181

cULus Recognized



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