

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

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 documentation. Our general terms of use for downloads are valid.



Type 2 surge protection plug with a varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 750 V AC

Commercial data

Item number	2908541
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1321
GTIN	4055626307107
Weight per piece (including packing)	63.9 g
Weight per piece (excluding packing)	62 g
Country of origin	DE

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541
<https://www.phoenixcontact.com/us/products/2908541>

Technical data

Notes

General

Note	For use in all low-voltage systems between L-PEN. Only for use in IT systems between L-PE if the bodies of the equipment in the low-voltage system are connected to the grounding system of the transformer station. (common grounding of the HV transformer station and the bodies of the LV consumer's installation. $R_E = R_A$ according to IEC 60364-4-442/VDE 0100-442 Figure 44D/example a)
------	---

Product properties

Product type	Replacement plug
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	IT
Type	Male
Distance between live and grounded parts	8 mm
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
-------------------------	---------------

Connection data

Connection method	pluggable
-------------------	-----------

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	52.4 mm
Depth	55.3 mm

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

Horizontal pitch	1 Div.
------------------	--------

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

Protective circuit

Mode of protection	L-PEN
	L-PE
Direction of action	1L-N/PE
Nominal voltage U_N	554/960 V AC (TN)
	690 V AC (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	760 V AC
Residual current I_{PE}	≤ 0.5 mA
Standby power consumption P_C	≤ 400.00 mVA
Nominal discharge current I_n (8/20) μ s	15 kA
Maximum discharge current I_{max} (8/20) μ s	30 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 2.9 kV
Residual voltage U_{res}	≤ 2.9 kV (at I_n)
	≤ 2.7 kV (at 10 kA)
	≤ 2.5 kV (at 5 kA)
	≤ 2.3 kV (at 3 kA)
TOV behavior at U_T	1000 V AC (5 s / withstand mode)
	1056 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	100 A (gG)

Environmental and real-life conditions

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)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x $\pm$ X, $\pm$ Y, $\pm$ Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

Approvals

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

UL specifications

Maximum continuous operating voltage MCOV (L-N)	750 V AC
Nominal discharge current I_n (L-N)	10 kA
Mode of protection	L-N
Nominal voltage	690 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	2700 V
SPD Type	4CA

Standards and regulations

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

Mounting

Mounting type	on base element
---------------	-----------------

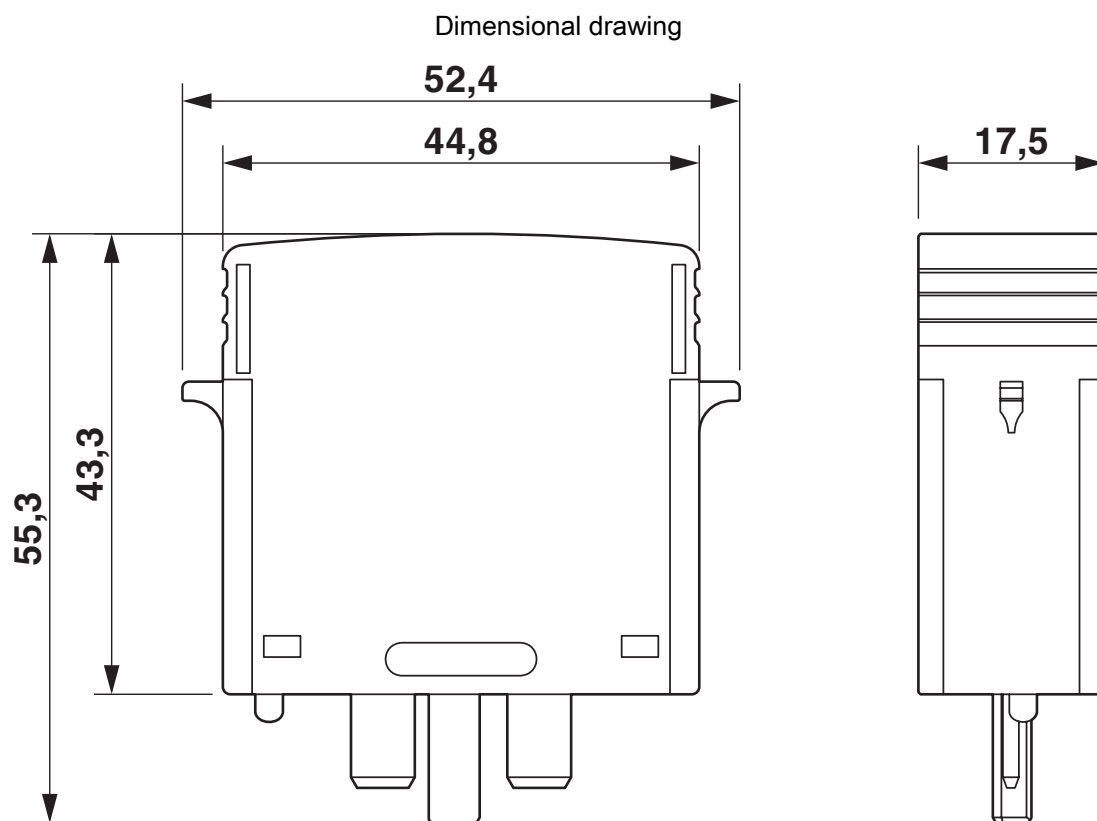
VAL-MS 750/30-UD-ST - Type 2 surge protection plug

2908541

<https://www.phoenixcontact.com/us/products/2908541>



Drawings



Circuit diagram



VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908541>

	cUL Recognized Approval ID: FILE E 330181
	UL Recognized Approval ID: FILE E 330181
	CSA Approval ID: 13631
	UAE-RoHS Approval ID: 22-09-51251
	cULus Recognized

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496
----------	----------

UNSPSC

UNSPSC 21.0	39121600
-------------	----------

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

Accessories

ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589

<https://www.phoenixcontact.com/us/products/2749589>



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

ZBN 18,LGS:L1-N,ERDE - Marker for terminal blocks

2749576

<https://www.phoenixcontact.com/us/products/2749576>



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

<https://www.phoenixcontact.com/us/products/2809128>



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

ZBN 18 CUS - Zack marker strip

0825059

<https://www.phoenixcontact.com/us/products/0825059>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

VAL-MS 750/30-UD-ST - Type 2 surge protection plug



2908541

<https://www.phoenixcontact.com/us/products/2908541>

B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/us/products/1051993>



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com