

Type 2 surge protection plug - VAL-US 690 ST - 2800744

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Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 690 V AC

The figure shows the VAL-US 347 ST version



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	64.0 GRM
Custom tariff number	85363090
Country of origin	Germany

Technical data

Dimensions

Height	52.4 mm
Width	17.7 mm
Depth	54.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1
	EN 61643-11
Mounting type	On base element
Design	Male

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Technical data

General

Number of positions	1
Surge protection fault message	Optical
Direction of action	1L-N/PE

Protective circuit

IEC test classification	II
	T2
EN type	T2
Nominal voltage U_N	690 V AC
Maximum continuous operating voltage U_C	750 V AC
U_T (TOV-proof)	1000 V AC (5 s)
Nominal frequency f_N	60 Hz (50 Hz)
Residual current I_{PE}	$\leq 300 \mu A$
Standby power consumption P_C	$\leq 230 \text{ mVA}$
Max. discharge current I_{max} (8/20) μs	30 kA
Nominal discharge current I_n (8/20) μs	15 kA
Voltage protection level U_p	$\leq 2.7 \text{ kV}$
Residual voltage	$\leq 2.7 \text{ kV}$
	$\leq 2.6 \text{ kV}$ (at 10 kA)
	$\leq 2.4 \text{ kV}$ (at 5 kA)
	$\leq 2.3 \text{ kV}$ (at 3 kA)
Response time	$\leq 25 \text{ ns}$
Max. required backup fuse with branch wiring	100 A (gL / gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA

Standards and Regulations

Standards/regulations	IEC 61643-1
	EN 61643-11/A11

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	27130803
eCl@ss 7.0	27130803

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Classifications

eCl@ss

eCl@ss 8.0	27130803
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ETIM

ETIM 3.0	EC000472
ETIM 4.0	EC000472
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


Approvals


UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted


Approval details

UL Recognized 

cUL Recognized 
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Approvals

cULus Recognized 

Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Labeled device marker

Zack marker strip - ZBN 18,LGS:ERDE - 2749589



Zack marker strip, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Zack marker strip - ZBN 18,LGS:L1-N,ERDE - 2749576



Zack marker strip, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993



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

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Accessories

Drawings

Circuit diagram

