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Type 2 surge protection plug - VAL-US 60 ST - 2800738

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Surge protection plug type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 60 V AC

The figure shows the VAL-US 347 ST version



Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 643795

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

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Technical data

General

IEC test classification	II
	T2
EN type	T2
SPD design	Voltage-limiting type
Mode of protection	L-PEN
Mounting type	On base element
Color	black
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Male
Number of positions	1
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Surge protection fault message	optical

Protective circuit

Nominal voltage U_N	60 V AC (TN)
	60 V DC
	-48 V DC (RRH)
Nominal frequency f_N	60 Hz (50 Hz)
Maximum continuous voltage U_C	75 V AC
Residual current I_{PE}	≤ 0.45 mA
Standby power consumption P_C	≤ 35 mVA
Nominal discharge current I_n (8/20) μ s	15 kA
Maximum discharge current I_{max} (8/20) μ s	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)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	125 A AC (gG)
	50 A DC (gG)

Connection data

Connection method	VALVETRAB plug-in system
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UL specifications

SPD Type	4 (for Type 2 applications)
Maximum continuous operating voltage MCOV (L-N)	75 V AC

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UL specifications

Maximum continuous operating voltage MCOV (L+) - (L-)	100 V DC
Maximum continuous operating voltage MCOV (L+/L-) - G	100 V DC
Nom. voltage	60 V AC
Nominal voltage	60 V DC
Mode of protection	L-N
	(L+) - (L-)
	(L+/L-) - G
Power distribution system	1
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-N)	0.5 kV
Voltage protection rating VPR (L+) - (L-)	0.33 kV
Voltage protection rating VPR (L+/L-) -G	0.33 kV
Nominal discharge current I _n (L-N)	10 kA
Nominal discharge current I _n (L+) - (L-)	10 kA
Nominal discharge current I _n (L+/L-) - G	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	27130803
eCl@ss 7.0	27130803
eCl@ss 8.0	27130805

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

Type 2 surge protection plug - VAL-US 60 ST - 2800738

Approvals

Approvals

UL Recognized / cUL Recognized / CSA / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

cUL Recognized

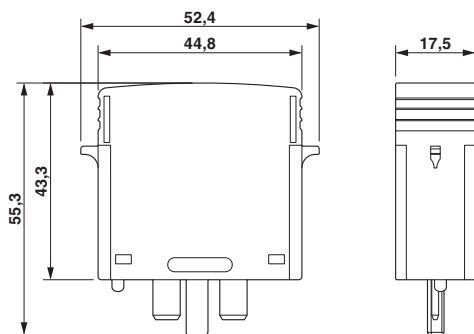
CSA

EAC

cULus Recognized

Drawings

Dimensional drawing



Circuit diagram



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