

Type 2 surge protection plug - F-MS 80 ST - 2921307

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Type 2 surge protection plug with N-PE total current spark gap.



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	47 mm
Width	17.7 mm
Depth	67.3 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
	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)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

General

Standards/specifications	IEC 61643-11 2011
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Technical data

General

	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TT
	TN-S
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	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
Surge protection fault message	optical

Protective circuit

Nominal voltage U_N	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Residual current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 1.3 \text{ mVA}$
Nominal discharge current I_n (8/20) μs	40 kA
Maximum discharge current I_{max} (8/20) μs	80 kA
Impulse discharge current (10/350) μs , charge	5 As
Impulse discharge current (10/350) μs , specific energy	25 kJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	10 kA
Follow current interrupt rating I_f	100 A (264 V AC)
Voltage protection level U_p	$\leq 1.7 \text{ kV}$
Residual voltage U_{res}	$\leq 0.6 \text{ kV}$ (at I_n)
	$\leq 0.5 \text{ kV}$ (at 10 kA)
	$\leq 0.5 \text{ kV}$ (at 5 kA)
	$\leq 0.4 \text{ kV}$ (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	$\leq 1.7 \text{ kV}$

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Protective circuit

TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 ns

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	2600 V
Nominal discharge current I_n (N-G)	20 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	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000472
ETIM 4.0	EC000941
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

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Approvals

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KEMA-KEUR / CCA / IECCE CB Scheme / GL / UL Recognized / cUL Recognized / EAC / cULus Recognized


Ex Approvals

Approvals submitted

Approval details

KEMA-KEUR 

CCA

IECEE CB Scheme 

GL

UL Recognized 

cUL Recognized 

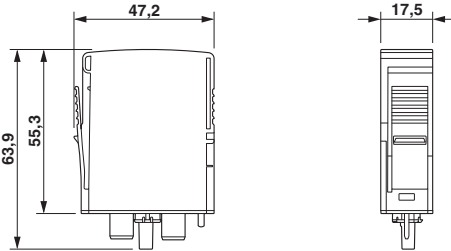
EAC

cULus Recognized 

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Drawings

Dimensional drawing



Circuit diagram

