

Surge protection plug - PT 2X1-5DC/FM-ST - 2920104

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Surge protection plug with integrated diagnostic and status indicator on the module and remote indication contact for two signal wires with common reference potential. Nominal voltage: 5 V DC

Product Features

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Maximum ease of maintenance thanks to the two-piece design
- ✓ Base element remains an integral part of the installation
- ✓ Permanent and independent monitoring by a diagnostics unit
- ✓ With floating remote indication contact
- ✓ Consistent plug-in signal circuit protection
- ✓ Optical status indication for the individual arresters
- ✓ Impedance-neutral disconnection of plug for test and maintenance purposes



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	30.0 GRM
Custom tariff number	85369010
Country of origin	Germany

Technical data

Dimensions

Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module height	90 mm

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Technical data

Dimensions

Complete module width	17.7 mm
Complete module depth	65.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U_N	5 V DC
Maximum continuous operating voltage U_C	6 V DC
	4 V AC
Maximum continuous voltage U_C (wire-ground)	6 V DC
	4 V AC
Nominal current I_N	300 mA (45°C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I_{PE}	≤ 1 μ A (BE: 2x1+F)
	≤ 2 mA (Directly grounded)
Nominal discharge current I_n (8/20) μ s (Core-Earth)	10 kA
Total surge current (8/20) μ s	20 kA
Max. discharge current I_{max} (8/20) μ s maximum (Core-Earth)	10 kA

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Protective circuit

Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)	145 A (25°C / 1x)
	50 A (25 °C)
Impulse discharge current (10/350) μ s, peak value I_{imp}	2.5 kA (per path)
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 14 V
	≤ 600 V (BE: 2x1+F)
Output voltage limitation at 1 kV/ μ s (Core-GND) spike	≤ 14 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 11 V
Output voltage limitation at 1 kV/ μ s (Core-GND) static	≤ 11 V
Residual voltage at I_n , (conductor-ground)	≤ 10 V
Residual voltage with I_{an} (10/1000) μ s (conductor-ground)	≤ 12 V
Voltage protection level U_p (Core-Earth)	≤ 11 V (C1 (500 V/250 A))
	≤ 10 V (C3 - 25 A)
Voltage protection level U_p (Core-GND)	≤ 11 V (C1 (500 V/250 A))
	≤ 10 V (C3 - 25 A)
Response time t_A (Core-Earth)	≤ 1 ns
Input attenuation a_E , asym.	typ. 0.5 dB (≤ 200 kHz / 50 Ω)
	typ. 0.2 dB (≤ 100 kHz / 150 Ω)
Cut-off frequency f_g (3 dB), asym. (GND) in 50 Ohm system	typ. 1 MHz
Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 0.4 MHz
Resistance in series	4.7 Ω (7-8/11-12)
Max. required back-up fuse	315 mA (e.g. T (IEC 127-2/III))
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2,5 kA
	C3 (25 A)
Alternating current carrying capacity (conductor-ground)	5 A - 1 s

Connection data

Connection method	Screw connection (in connection with the base element)
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²

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Connection data

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Standards and Regulations

Standards/regulations	IEC 61643-21
	DIN EN 61643-21

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	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

UL Listed / GOST

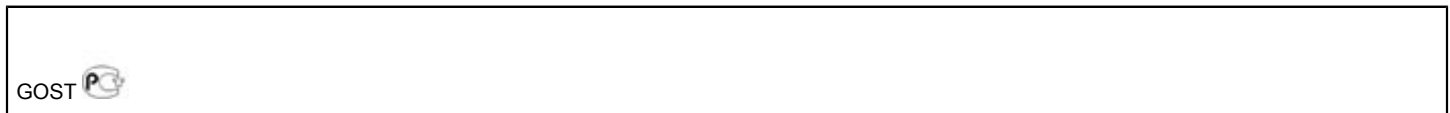
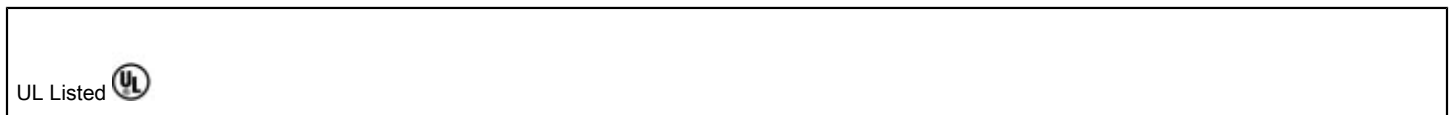
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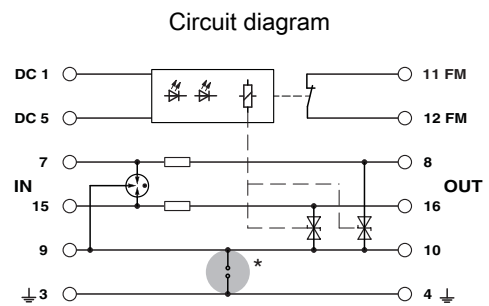
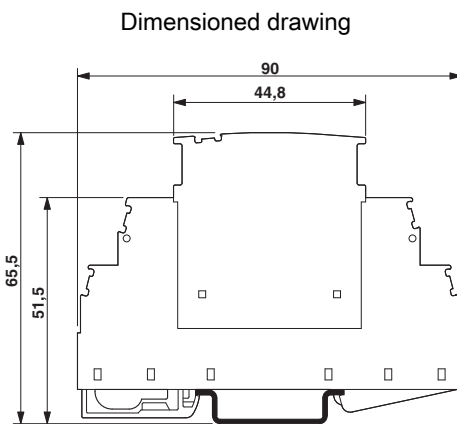
Ex Approvals

Approvals submitted

Approval details



Drawings



The figure shows the complete module consisting of a base element and connector

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Catalog photo

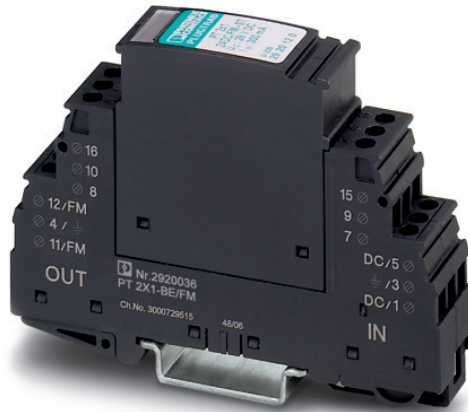


Figure may contain other products.

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