

Surge protection plug - PT PE/S+1X2-24-ST - 2819008

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Protective plug PT with surge voltage equipment protection for power supply units, visual fault warning, nominal voltage: 24 V and a 2-core floating signal circuit, nominal voltage: 24 V.

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
- Consistent plug-in signal circuit protection
- Impedance-neutral disconnection of plug for test and maintenance purposes



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	29.65 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	44.8 mm
Width	17.5 mm
Depth	51.7 mm
Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Current supply arrester can be tested with CHECKMASTER starting with software version:	From SW rev. 1.00
Direction of action	L-N-PE & Signal Line-Signal Line-Earth Ground

Protective circuit, power supply

IEC test classification	III
	T3
EN type	T3
Arrester rated voltage U_C	34 V AC
	44 V DC
Nominal frequency f_N	50 Hz (60 Hz)
Nominal current I_N	6 A (30 °C)
Operating effective current I_C at U_C	≤ 1.5 mA
Residual current I_{PE}	≤ 5 μ A
Nominal discharge current I_n (8/20) μ s	700 A
Max. discharge current I_{max} (8/20) μ s	2 kA
Combination wave U_{OC}	2 kV
Voltage protection level U_p (L-N)	≤ 0.18 kV
Voltage protection level U_p (L-PE)	≤ 0.55 kV
Response time (L-N)	≤ 25 ns
Response time (L-PE)	≤ 100 ns
Surge protection fault message	optical

Connection (protective circuit, power supply)

Connection method	Plug
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

Protective circuit, information technology

Nominal voltage U_N	24 V AC
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Technical data

Protective circuit, information technology

Arrester rated voltage U_C	40 V DC
	28 V AC
Nominal current I_N	450 mA (45°C)
Operating effective current I_C at U_C	$\leq 5 \mu A$
Residual current I_{PE}	$\leq 2 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	10 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	20 kA (in total)
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	20 kA (in total)
Voltage protection level U_p (core-core)	$\leq 80 V$ (C2 - 10 kV/5 kA)
Voltage protection level U_p (core-ground)	$\leq 450 V$ (C2 - 10 kV/5 kA)
Response time t_A (Core-Core)	$\leq 1 ns$
Response time t_A (Core-Earth)	$\leq 100 ns$
Input attenuation aE, sym.	typ. 0.5 dB ($\leq 1.5 MHz / 50 \Omega$)
	typ. 0.2 dB ($\leq 500 kHz / 150 \Omega$)
	typ. 0.1 dB ($\leq 100 kHz / 600 \Omega$)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	typ. 8 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 3 MHz
Cut-off frequency f_g (3 dB), sym. in 600 Ohm system	typ. 800 kHz
Capacity (Core-Core)	typ. 1.1 nF
Capacity (Core-Earth)	typ. 4 pF
Resistance in series	$2.2 \Omega \pm 10 \%$
Impulse discharge current (10/350) μs , peak value I_{imp}	2.5 kA
Surge protection fault message	Optical, remote indicator contact
Output voltage limitation at 1 kV/ μs (wire-wire)	$\leq 55 V$
Output voltage limitation at 1 kV/ μs (wire-earth)	$\leq 25 V$
Residual voltage at I_n (conductor-conductor)	$\leq 55 V$
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	$\leq 65 V$
Impulse durability (conductor-conductor)	C2 - 10 kV/5 kA
	C3 - 23 A
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2.5 kA

Power supply, general

Connection method	Plug
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

Surge protection plug - PT PE/S+1X2-24-ST - 2819008

Technical data

Standards (protective circuit, information technology)

IEC test classification	C1
	C2
	C3

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	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000899
ETIM 5.0	EC001473

UNSPSC

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

Approvals

Approvals

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EAC / EAC

Ex Approvals

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Approvals

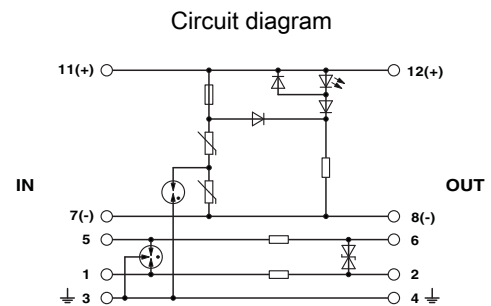
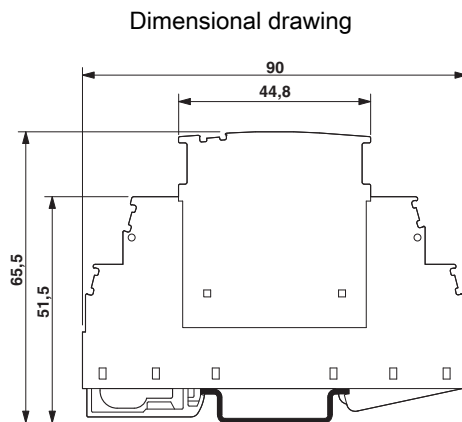
Approvals submitted

Approval details

EAC

EAC

Drawings



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