

## Type 3 surge protection device - PRT-S/A-120/FM - 2830605


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Equipment protection plug PRT-S with temperature monitoring, visual and acoustic fault warning and remote indicator contact. Nominal voltage: 120 V



### Key commercial data

Packing unit	1 PCE
GTIN	 4 017918 126698
Weight per Piece (excluding packing)	26.2 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	33 mm
Width	31.5 mm
Depth	33 mm

#### Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-25 °C ... 75 °C

#### General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1

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### Technical data

#### General

Design	Fitted box module
Mounting type	UP/channel installation
Number of positions	2
Direction of action	1L-N & N-PE

#### Protective circuit

IEC test classification	III
	T3
EN type	T3
Nominal voltage $U_N$	120 V AC
Arrester rated voltage $U_C$ (L-N)	150 V AC
Arrester rated voltage $U_C$ (L-PE)	150 V AC
Nominal frequency $f_N$	50 Hz
	60 Hz
Nominal current $I_N$	16 A ( $\leq 45^\circ\text{C}$ )
	15 A (UL)
	10 A (CSA)
Operating effective current $I_C$ at $U_C$	$\leq 1.3$ mA
Residual current $I_{PE}$	$\leq 1$ $\mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	1.5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (L-N)	1.5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (L-PE)	1.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (L-N)	4.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (L-PE)	4.5 kA
Combined surge $U_{OC}$	4 kV
Energy absorption symmetrical	40 J
Energy absorption, asymmetrical	20 J
Voltage protection level $U_p$ (L-N)	$\leq 600$ V
Voltage protection level $U_p$ (L-PE)	$\leq 800$ V
Voltage protection level $U_p$ (N-PE)	$\leq 800$ V
Residual voltage at $I_n$ , (L-N)	$\leq 610$ V
Residual voltage at $I_n$ , (L-PE)	$\leq 330$ V
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Response time $t_A$ (N-PE)	$\leq 100$ ns
Max. required back-up fuse	16 A (gL/C)
Surge protection fault message	Acoustic, optic, remote indicator contact

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### Technical data

#### Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	N/C contact
Connection method	PRT plug-in system
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U <sub>max</sub> AC	250 V AC
Max. operating current I <sub>max</sub>	3 A (60°C)

#### Standards and Regulations

Standards/specifications	IEC 61643-1 2005
	EN 61643-11/A11 2007

### 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	27130806
eCl@ss 7.0	27130806
eCl@ss 8.0	27130806

#### ETIM

ETIM 2.0	EC000942
ETIM 3.0	EC000942
ETIM 4.0	EC000942
ETIM 5.0	EC000942

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610

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### Classifications

#### UNSPSC

UNSPSC 13.2	39121620
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### Accessories

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##### Central plate

Central plate - ZP-J/TAE/ST550 WH - 2830362



Central plate, 3x TAE: Range of switches, Jung ST 550, white.

##### Cover frame

Cover frame - AR-J/ST550 WH - 2830359



Cover frame, single: Range of switches, Jung ST 550, white.

### Required add-on products

Flush-type base - PRT-CD-AD1 - 2749673



Flush-type socket base for equipment protection plug PRT-S...

### Additional products

Surge protection device - BXT-M/RS485-TTL - 2749987



Surface-mounted housing with surge protection, for RS-485 interface with with TTL level, mains connection with slot for protective plug PRT-S... (without protective plug)

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## Accessories

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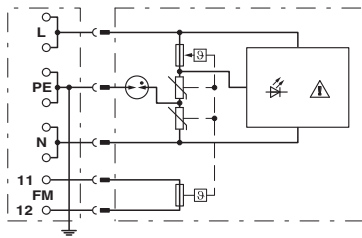
Surge protection device - BXT-M/PLI-24 - 2830113



Surface-mounted housing with surge protection, for RS-485 interface with 24 V signal voltage, mains connection with slot for protective plug PRT-S... (without protective plug)

## Drawings

Circuit diagram



1 = signaling  
2 = optional

Dimensioned drawing

