

## Surge protection plug - PT 2X2-FF-ST - 2800755

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PLUGTRAB, plug-in surge protection for Foundation Fieldbus

### Product Features



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	26.0 GRM
Custom tariff number	85363030
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
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

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### Technical data

#### General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Number of positions	5
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 $U_N$	32 V DC
Maximum continuous voltage $U_C$	36 V DC
Maximum continuous voltage $U_C$ (wire-wire)	36 V DC
Nominal current $I_N$	1.6 A
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$
Residual current $I_{PE}$	$\leq 5 \mu\text{A}$ (with PT 4-BE)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Core)	100 A
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Core)	100 A
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Core)	23 A
Impulse discharge current (10/350) $\mu\text{s}$ , peak value $I_{imp}$	1 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Core) spike	$\leq 75 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 1.3 \text{ kV}$ (with PT 4-BE)
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Core) static	$\leq 75 \text{ V}$
Voltage protection level $U_p$ (core-core)	$\leq 75 \text{ V}$ (C3 - 25 A)
Voltage protection level $U_p$ (core-ground)	$\leq 1.3 \text{ kV}$ (C1 - 1.5 kV)

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#### Protective circuit

	≤ 1.3 kV (C2 - 9 kV)
	≤ 1.3 kV (D1 - 500 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Resistance in series	≤ 1 Ω
Impulse durability (conductor-conductor)	C3 - 25 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 (500 A)

#### 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

### 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 3.0	EC000472
ETIM 4.0	EC002643
ETIM 5.0	EC000943

#### UNSPSC

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

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## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

ATEX / ATEX

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Approvals submitted

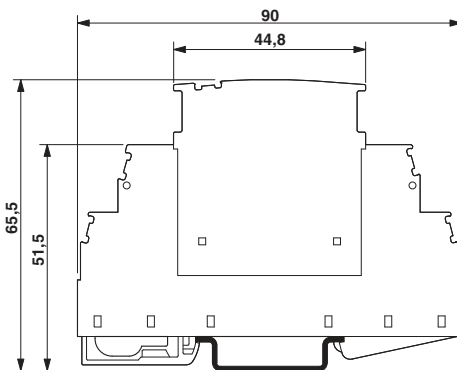
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## Approval details

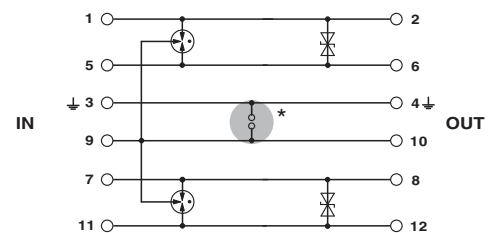
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## Drawings

Dimensional drawing



Circuit diagram



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

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