

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


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PLUGTRAB, plug-in surge protection for Foundation Fieldbus



Key Commercial Data

Packing unit	10 pc
GTIN	 4 046356 637077
GTIN	4046356637077

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

Housing material	PA
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1

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General

Mounting type	on base element
Type	Male
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
Rated current	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) μs (line-line)	100 A
Nominal discharge current I_n (8/20) μs (line-earth)	10 kA
Pulse discharge current I_{imp} (10/350) μs	1 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	100 A
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	10 kA
Nominal pulse current I_{an} (10/1000) μs (line-line)	23 A
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 75 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 1.3 \text{ kV}$ (with PT 4-BE)
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 75 \text{ V}$
Voltage protection level U_p (line-line)	$\leq 75 \text{ V}$ (C3 - 25 A)
Voltage protection level U_p (line-earth)	$\leq 1.3 \text{ kV}$ (C1 - 1.5 kV)
	$\leq 1.3 \text{ kV}$ (C2 - 9 kV)
	$\leq 1.3 \text{ kV}$ (D1 - 500 A)
Response time t_A (line-line)	$\leq 1 \text{ ns}$
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Resistance in series	$\leq 1 \Omega$
Surge protection fault message	none
Impulse durability (line-line)	C3 - 25 A
Impulse durability (line-earth)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 - 500 A

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Connection data

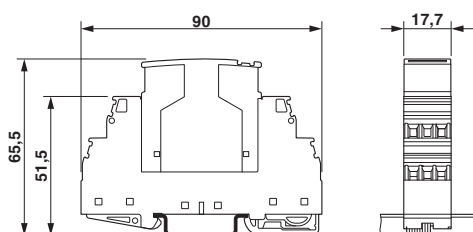
Connection method	Screw connection (in connection with the base element)
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Standards and Regulations

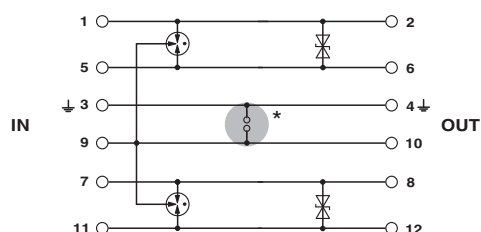
Standards/specifications	EN 61643-21/A1 2009
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Drawings

Dimensional drawing



Circuit diagram



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

Approvals

Approvals

Approvals

EAC

Ex Approvals

ATEX / ATEX

Approval details

EAC		RU C- DE.A*30.B01561
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