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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 STK
GTIN	 4 046356 637077

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
Mounting type	On base element

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Technical data

General

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) μs (Core-Core)	100 A
Nominal discharge current I_n (8/20) μs (Core-Earth)	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	100 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	23 A
Impulse discharge current (10/350) μs , peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 75 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 1.3 \text{ kV}$ (with PT 4-BE)
Output voltage limitation at 1 kV/ μs (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)
	$\leq 1.3 \text{ kV}$ (C2 - 9 kV)
	$\leq 1.3 \text{ kV}$ (D1 - 500 A)
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Resistance in series	$\leq 1 \Omega$
Impulse durability (conductor-conductor)	C3 - 25 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 (500 A)

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Technical data

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
eCl@ss 9.0	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

Approvals

Approvals

Approvals

EAC

Ex Approvals

ATEX / ATEX

Approvals submitted

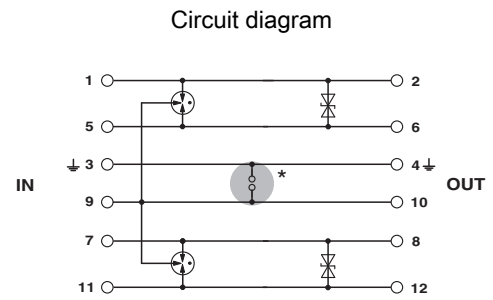
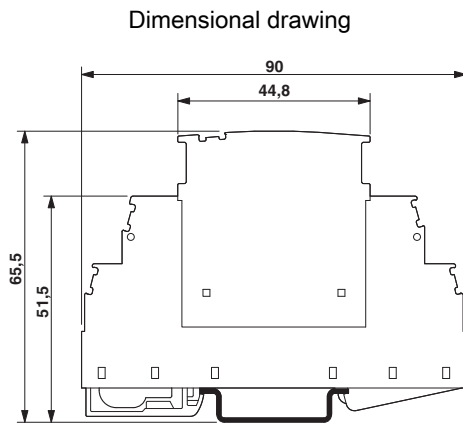
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Approvals

Approval details

EAC

Drawings



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

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