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Especialistas en Automatización

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# Lightning arrester type 1 - FLT-PLUS - 2800116

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Type 1/Class I (lightning arrester) with arc chopping spark gap, quenching plates for high follow current quenching capacity, 1-channel. Housing width: 35 mm (2 Div.)



## Why buy this product

- High discharge capacity
- Single-channel

## Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 480017

## Technical data

### Dimensions

Height	150 mm
Width	35.5 mm
Depth	65.5 mm
Horizontal pitch	2 Div.

### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	I
	T1
EN type	T1
IEC power supply system	TT
	TN-C

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## Technical data

### General

	TN-S
Number of ports	One
SPD design	Voltage-switching type
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Rail-mountable module, one-piece
Number of positions	1
Surge protection fault message	None

### Protective circuit

Nominal voltage $U_N$	230/400 V AC (TN)
	230/400 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-PEN)	440 V AC
Rated load current $I_L$	80 A
Residual current $I_{PE}$	$\leq 0.1$ mA
Standby power consumption $P_C$	$\leq 44$ mVA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PEN)	50 kA
Impulse discharge current (10/350) $\mu$ s (L-PEN), charge	25 As
Impulse discharge current (10/350) $\mu$ s (L-PEN), specific energy	625 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (L-PEN), peak current value $I_{imp}$	50 kA
Follow current interrupt rating $I_{fi}$ (L-PEN)	25 kA
Short-circuit current rating $I_{SCCR}$	25 kA
Voltage protection level $U_p$ (L-PEN)	$\leq 5$ kV
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 5$ kV
TOV behavior at $U_T$ (L-PEN)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
Response time $t_A$ (L-PEN)	$\leq 100$ ns
Max. backup fuse with branch wiring	500 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

### Connection data

Connection method	Screw connection
Conductor cross section flexible min.	16 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section AWG	6 ... 1
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

### ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

### 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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Approvals

EAC

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Ex Approvals

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# Lightning arrester type 1 - FLT-PLUS - 2800116

## Approvals

Approvals submitted

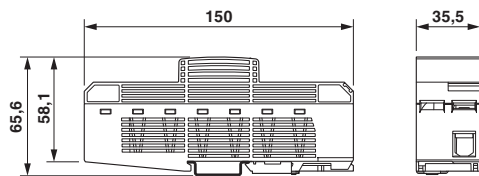
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## Approval details

EAC
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## Drawings

Dimensional drawing



Circuit diagram



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



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