

## Combination type 1/2 protective device - FLT-SEC-ZP-3C-255/7,5 - 1074739

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Lightning current arrester, in acc. with type 1/class I, for 3-phase power supply networks, with combined N and PE (L1, L2, L3, PEN). Suitable for equipotential bonding in systems without external lightning protection with and without overhead line supply. For mounting on 40 mm busbar systems.

### Your advantages

- ✓ Fast and error-free installation, thanks to direct mounting on 40 mm rail system
- ✓ Fits in every distribution board, thanks to flexible overall width of just 47 mm or 52 mm
- ✓ Mounts securely and without tools through a universal interlock on a 5 mm and 10 mm rail thickness
- ✓ No line follow current, thanks to an innovative spark gap



### Key Commercial Data

Packing unit	1
GTIN	 4 055626 775296
GTIN	4055626775296
Custom tariff number	85363090

### Technical data

#### Dimensions

Height	223.2 mm
Width	47 mm
	52 mm (with spacer lid)
Depth	110.7 mm
Horizontal pitch	3 Div.

#### Ambient conditions

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## Technical data

### Ambient conditions

Degree of protection	IP30 (Installed)
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 6000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

IEC test classification	I + II
	T1 + T2
EN type	T1 + T2
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	Busbar 40 mm
Color	light grey RAL 7035
Housing material	PA 6.6-FR
	PC
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	Busbar module, one-piece
Number of positions	3
Surge protection fault message	optical

### Protective circuit

Nominal voltage $U_N$	230/400 V AC (TN-C)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	255 V AC
Nominal discharge current $I_n$ (8/20) $\mu$ s	20 kA
Impulse discharge current (10/350) $\mu$ s, charge	3.75 As
Impulse discharge current (10/350) $\mu$ s, specific energy	15 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	7.5 kA
Follow current interrupt rating $I_{fi}$	25 kA
Short-circuit current rating $I_{SCCR}$	25 kA
Voltage protection level $U_p$	≤ 1.5 kV
TOV behavior at $U_T$	337 V AC (5 s / withstand mode)
	442 V AC (120 min / safe failure mode)
Response time $t_A$	≤ 100 ns

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### Technical data

#### Protective circuit

Max. backup fuse with branch wiring	250 A (gG)
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#### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross section flexible	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section solid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>

#### Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

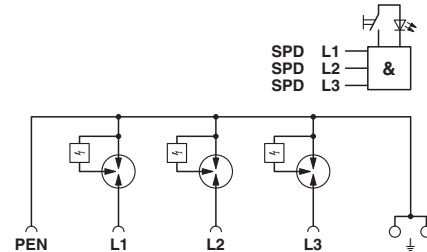
### Drawings

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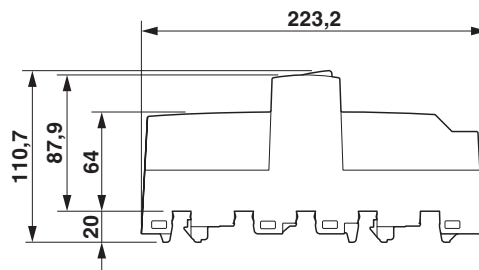
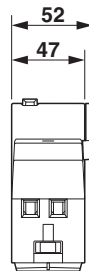
Application drawing



Circuit diagram



Dimensional drawing



The figure shows the product with included spacer lid

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### Classifications

#### eCl@ss

eCl@ss 10.0.1	27130802
eCl@ss 11.0	27130802
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 9.0	27130802

#### ETIM

ETIM 6.0	EC000381
ETIM 7.0	EC000381

### Approvals

#### Approvals

#### Approvals


CCA / KEMA-KEUR / IECEE CB Scheme / VDE Zeichengenehmigung

#### Ex Approvals

#### Approval details

CCA	NTR-NL 7693
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KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	71-104380
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-52556
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### Approvals

VDE Zeichengenehmigung



[http://www2.vde.com/de/Institut/Online-Service/  
VDE-gepruefteProdukte/Seiten/Online-Suche.aspx](http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx)

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