

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Lightning/surge arrester for 2-pos. isolated 1500 V DC voltage systems, for DIN rail mounting, temperature-monitored protective elements, status message on the module.

Why buy this product

- ☑ Double terminal block for safe and easy equipotential bonding connection
- Screw shafts with raised domes to ensure safe working
- Main connections with extended insertion funnels for increased resistance to creepage
- ✓ Visual display for checking the status directly on the device
- Compact design for space-saving installation



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 984393
GTIN	4046356984393
Custom tariff number	85354000
Country of origin	Germany

Technical data

Dimensions

Height	120 mm
Width	71.2 mm
Depth	65.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.



Technical data

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
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 %
Shock (operation)	50g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

General

IEC test classification	PV I / II
	PV T1 / T2
EN type	T1 / T2
IEC power supply system	DC
SPD failure behavior	OCM (Open-circuit mode)
Connection configuration	Y configuration
Installation location	Inside
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mode of protection	(L+) - (L-)
	(L+) - PE
	(L-) - PE
Mounting type	DIN rail: 35 mm
Color	traffic grey A RAL 7042
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Туре	DIN rail module, one-piece
Surge protection fault message	optical

Additional descriptions

Note The product is also suitable for applications in PV systems with a max. short-circiut current I _{SCPV} = 15 kA (according to EN 50539-11:2013).
--

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	1500 V DC
Open circuit voltage U _{OCSTC}	≤ 1250 V DC
Short-circuit current rating I _{SCPV}	2000 A
Continuous operating current I _{CPV}	< 100 μA



Technical data

Protective circuit DC voltage side (DC)

Rated load current I _L	50 A
Residual current I _{PE}	≤ 100 µA DC
	≤ 540 µA AC
Standby power consumption P _C	≤ 150 mVA
Nominal discharge current (8/20) µs	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Impulse discharge current (10/350) µs, charge	3.125 As
Impulse discharge current (10/350) µs, specific energy	9.77 kJ/Ω
Impulse discharge current (10/350) µs, peak value I _{imp}	6.25 kA
Total discharge current I _{total} (8/20) μs	40 kA
Total discharge current I _{total} (10/350) μs	12.5 kA
Voltage protection level U _p	≤ 4.5 kV
Residual voltage U _{res}	\leq 4.5 kV (at I _n)
	≤ 3.3 kV (at 3 kA)
	≤ 3.6 kV (at 6.25 kA)
	≤ 3.8 kV (at 10 kA)
	≤ 4.2 kV (at 15 kA)
	≤ 5.4 kV (at 40 kA)
Response time t _A	≤ 25 ns
Insulation resistance R _{iso}	> 5 GΩ (at 500 V DC)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm² 35 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	2.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	10 mm²
Conductor cross section AWG	14 2

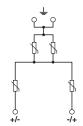
Standards and Regulations

Standards/regulations	EN 50539-11 2013

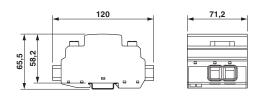
Drawings



Circuit diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 3.0	EC000941
ETIM 4.0	EC000381
ETIM 5.0	EC000381
ETIM 6.0	EC000381

UNSPSC

UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

KEMA-KEUR / CCA

Ex Approvals

Approval details



Approvals

KEMA-KEUR KEMA	http://www.dekra-certification.com	2181728.01
----------------	------------------------------------	------------

CCA NTR-NL 7422

Accessories

Accessories

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Phoenix Contact 2018 @ - all rights reserved <code>http://www.phoenixcontact.com</code>