

2905353

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Plug-in surge arrester, in accordance with Type 2/Class II, for 3-phase power supply networks with combined PE and N installed in one conductor (4-conductor system: L1, L2, L3, PEN), with remote indication contact.

Your advantages

- · Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- · Easy to maintain due to consistently pluggable protection modules
- · Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- More space in the control cabinet due to the narrow overall width of just 12 mm per position and use without separate backup fuse up to 315 A gG

Commercial data

Item number	2905353
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1351
Catalog page	Page 56 (C-4-2019)
GTIN	4046356948258
Weight per piece (including packing)	297.4 g
Weight per piece (excluding packing)	297 g
Customs tariff number	85363090
Country of origin	DE



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Technical data

Product properties

Product type	Surge arrester
Product family	SEC Family
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC 1 A AC
	1 A DC (30 V DC)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm² 16 mm²
Conductor cross section rigid	2.5 mm² 25 mm²
Conductor cross section AWG	12 4
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 6 mm²

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²



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Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	97.9 97.9 97.9 97.9 97.9 97.9 97.9 97.9 97.9 97.9 97.9
Width	37.3 mm
Height	97.9 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

Material specifications

Color (Male connector)	light gray (RAL 7035)
Color (Base element)	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF
	PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF
	PBT-FR

Protective circuit

oteotive circuit	
Mode of protection	L-PEN
Direction of action	3L-N/PE
Nominal voltage U _N	120/208 V AC (TN-C)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	175 V AC
Rated load current I _L	40 A (Biconnect M4 fork-type cable lug 6 mm²)
	63 A (TWIN ferrule 2 x 10 mm²)
Standby power consumption P _C	≤ 420 mVA
Nominal discharge current I _n (8/20) µs	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Short-circuit current rating I _{SCCR}	25 kA (for a backup fuse of up to 315 A gG)
	50 kA (for a backup fuse of up to 200 A gG)
Voltage protection level U _p	≤ 0.85 kV
Residual voltage U _{res}	≤ 0.85 kV (at I _n)
	≤ 0.75 kV (at 10 kA)
	≤ 0.65 kV (at 5 kA)
	≤ 0.63 kV (at 4 kA)
	≤ 0.57 kV (at 2 kA)



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TOV behavior at U _T	240 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
Response time t _A	≤ 25 ns
Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm²)
	63 A (gG / TWIN ferrule 2x 10mm²)
Max. backup fuse with branch wiring	315 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-L)	350 V AC
Maximum continuous operating voltage MCOV (L-N)	175 V AC
Nominal discharge current I _n (L-L)	20 kA
Nominal discharge current I _n (L-N)	20 kA
Mode of protection	L-L
	L-N
Nominal voltage	120/208 V AC
Power distribution system	Wye
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	2010 V
Measured limiting voltage MLV (L-N)	1510 V
SPD Type	4CA

UL indicator/remote signaling

Operating voltage	125 V AC
AC operating current	1 A AC

UL connection data

of connection data		
Tightening torque	40 lb _f -in 50 lb _f -in.	
Conductor cross section AWG	14 2 (solid)	
	14 4 (flexible)	

Standards and regulations

Air	clearances	and	creenage	distances
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Standards/regulat	ons	DIN VDE 0110-1 / IEC 60664-1 / IEC 61643-11	



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	Standards/specifications	IEC 61643-11
	Note	2011
E	EN 61643-11	
	Standards/specifications	EN 61643-11
	Note	2012
Mounting		
	Mounting type	DIN rail: 35 mm

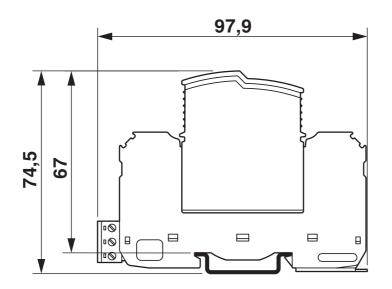


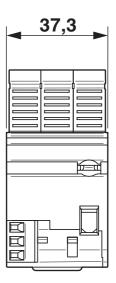
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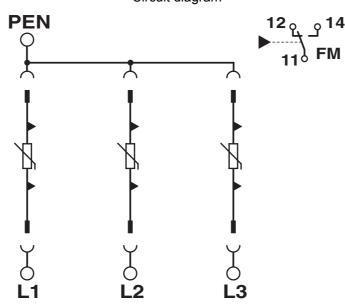
Drawings

Dimensional drawing





Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905353



cUL Recognized





UL RecognizedApproval ID: FILE E 330181



IECEE CB Scheme

Approval ID: NL-34356



EAC

Approval ID: RU C-DE.*09.B.00169



Approval ID: NTR-NL 7347



KEMA-KEUR

Approval ID: 2196453.01



DNV GL

Approval ID: TAE000023D

UAE-RoHS

Approval ID: 23-10-88707



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Classifications

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	ECLASS-13.0	27171202	
ETIM			
	ETIM 9.0	EC000941	
UNSPSC			
	UNSPSC 21.0	39121600	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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