

2856579

https://www.phoenixcontact.com/us/products/2856579

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 documentation. Our general terms of use for downloads are valid.



Surge voltage arrester consisting of base element with remote indicator contact and protective plug with a connection in series with a varistor and a gas-filled spark gap, for mounting on NS 35/7.5, nominal voltage: 230 V AC, 1-channel

Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Suitable for use in insulation-monitored systems due to combination of varistor and gas discharge tube free of leakage current
- Can be used in applications with increased insulation strength, e.g., railway technology

Commercial data

Item number	2856579
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4017918876852
Weight per piece (including packing)	134.7 g
Weight per piece (excluding packing)	134.9 g
Customs tariff number	85363030
Country of origin	DE



2856579

https://www.phoenixcontact.com/us/products/2856579

Technical data

Notes

_			
റം	-	-	
		е	

Note	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed- conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the
	transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a)

Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	II .
	T2
EN type	T2
IEC power supply system	TN
	тт
	IT
Туре	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f_N

Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1 A AC
	1 A DC

50 Hz (60 Hz)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm ² 16 mm ²)
	4.5 Nm (25 mm² 35 mm²)



2856579

https://www.phoenixcontact.com/us/products/2856579

Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 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
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	96.8 99.8 17.6
Width	17.6 mm
Height	96.8 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PA 6.6
	PBT

Protective circuit

Mode of protection	L-N
	L-PE
	L-PEN
Direction of action	1L-N/PE
Nominal voltage U _N	240/415 V AC (TN)
	240/415 V AC (TT)
	230 V AC (IT)



2856579

https://www.phoenixcontact.com/us/products/2856579

Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U_{C}	350 V AC
Rated load current I _L	80 A
Protective conductor current I _{PE}	≤ 5 µA
Standby power consumption P _C	≤ 2 mVA
Nominal discharge current I _n (8/20) µs	10 kA
Maximum discharge current I _{max} (8/20) μs	20 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 1.5 kV
Residual voltage U _{res}	≤ 1.2 kV (at I _n)
	≤ 1.2 kV (at 10 kA)
	≤ 1.1 kV (at 5 kA)
Impulse sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV
TOV behavior at U _T	415 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
Response time t _A	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	125 A (gG)
Additional technical data	
Impulse discharge current (10/350) µs, charge	0.25 As
Impulse discharge current (10/350) µs, specific energy	62.5 J/Ω
Impulse discharge current (10/350) µs, peak value I _{imp}	500 A

Environmental and real-life conditions

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	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (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-N)	350 V AC
Nominal discharge current I _n (L-N)	10 kA
Mode of protection	L-N
Nominal voltage	240 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	2420 V
SPD Type	4CA



2856579

https://www.phoenixcontact.com/us/products/2856579

UL	ındıca	tor/remote	signaling

Operating voltage	125 V AC	
AC operating current	1 A AC	
UL connection data		
UL connection data		
UL connection data Tightening torque	30 lb _t -in.	

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

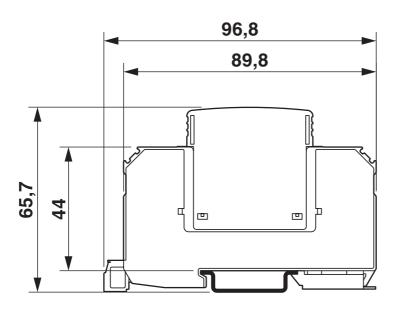


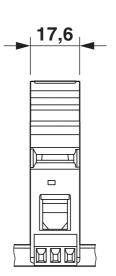
https://www.phoenixcontact.com/us/products/2856579



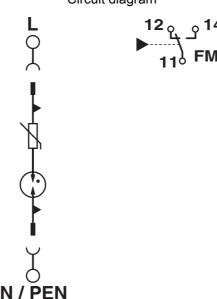
Drawings

Dimensional drawing





Circuit diagram





2856579

https://www.phoenixcontact.com/us/products/2856579

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2856579



cUL Recognized

Approval ID: FILE E 330181



UL Recognized

Approval ID: FILE E 330181



IECEE CB Scheme

Approval ID: AT 2905/M1

CCA

Approval ID: NTR-AT 1947-A



KEMA-KEUR

Approval ID: 71-148002



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

UAE-RoHS

Approval ID: 22-09-51251



2856579

https://www.phoenixcontact.com/us/products/2856579

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27171202
	ECLASS-15.0	27171202
ET	IM	
	ETIM 9.0	EC000941
UN	ISPSC	

39121600

Jul 31, 2025, 5:08□PM Page 8 (9)



2856579

https://www.phoenixcontact.com/us/products/2856579

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%

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com