PLT-SEC-T3-230-FM-UT - Type 3 surge protection device

2907919

https://www.phoenixcontact.com/us/products/2907919

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.



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 V AC/DC

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
- Your preferred connection technology can be selected as both screw connection and Push-in connection are available
- Optimal additional protection of the industrial power supply for a longer service life and increased availability of the system
- 5-year warranty on your QUINT 4 power supply when installed together with PLT-SEC, see document in the download area

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2907919
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	CL19
Product key	CL14A2
GTIN	4055626257457
Weight per piece (including packing)	96.62 g
Weight per piece (excluding packing)	81.16 g
Customs tariff number	85363030
Country of origin	DE

Technical data

Product properties

Product type	Device protection
Product family	SEC Family
IEC power supply system	TT
	TN-S
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	II / III
	T2 / T3
EN type	T2 / T3
Number of ports	One

Electrical properties

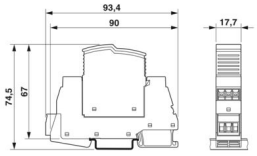
Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	250 V AC
	125 V DC (200 mA DC)
Operating current	0.5 A AC
	0.5 A DC (75 V DC)

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	17.7 mm

Height	93.4 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 HP

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	PA 6.6-FR 20 % GF
	PA 6.6-FR
Housing material	PA 6.6-FR 20 % GF
	PA 6.6-FR

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Direction of action	1L-N & N-PE
Nominal voltage U_N	240 V AC (TN-S)
	240 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	264 V AC
Rated load current I_L	26 A (at 30 °C)
Protective conductor current I_{PE}	≤ 5 µA
Standby power consumption P_C	≤ 26.4 mVA (at U_{REF})
	≤ 26.4 mVA (at U_C)
Reference test voltage U_{REF}	264 V AC
Nominal discharge current I_n (8/20) µs	5 kA
Maximum discharge current I_{max} (8/20) µs	10 kA
Combination wave U_{OC}	6 kV
Voltage protection level U_p (L-N)	≤ 1.25 kV (at U_{OC})
	≤ 1.4 kV (at I_n)
Voltage protection level U_p (L-PE)	≤ 1.4 kV
Voltage protection level U_p (N-PE)	≤ 1.4 kV
TOV behavior at U_T (L-N)	400 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior at U_T (L-PE)	457 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)
	1464 V AC (200 ms / safe failure mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 ns

Short-circuit current rating I_{SCCR}	10 kA AC
Maximum backup fuse for through wiring	25 A (gG / B / C)
Max. backup fuse with branch wiring	32 A (gG / B / C)

Additional technical data

Short-circuit current rating I_{SCCR}	0.25 kA DC (Without additional backup fuse in the DC branch wiring)
	5 kA DC (for 20 A gG / B backup fuse)
Residual voltage U_{res} (L-N)	≤ 1.15 kV (at 2 kA)
	≤ 1.25 kV (at 3 kA)
	≤ 1.1 kV (at U_{OC} = 4 kV)
Residual voltage U_{res} (L-PE)	≤ 1.1 kV (at 2 kA)
	≤ 1.1 kV (at 3 kA)
	≤ 1.2 kV (at U_{OC} = 4 kV)
Residual voltage U_{res} (N-PE)	≤ 1.1 kV (at 2 kA)
	≤ 1.1 kV (at 3 kA)
	≤ 1.2 kV (at U_{OC} = 4 kV)
Maximum continuous operating voltage U_C	275 V AC
	240 V DC
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
IEC test classification (in accordance with IEC 61643-21)	D1
Impulse durability (wire-wire)	D1 - 500 A
Impulse durability (line-earth)	D1 - 500 A
Pulse discharge current I_{imp} (10/350) µs (line-line)	0.5 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	0.5 kA

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 (operating voltage remote contact ≤ 250 V)
	≤ 6000 m (operating voltage remote contact ≤ 150 V)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 ... 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV	264 V AC
	240 V DC
Nominal discharge current I_n	5 kA
	L-N

Mode of protection	L-G
	N-G
	(DC+) - (DC-)
	(DC+) - G
	(DC-) - G
Nominal voltage	240 V DC
Rated load current I_L	20 A
Power distribution system	Single phase
	DC
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	1150 V
Measured limiting voltage MLV (L-G)	1180 V
Measured limiting voltage MLV (N-G)	1180 V
SPD Type	4CA

UL indicator/remote signaling

Operating voltage	250 V AC (0.5 A)
DC operating voltage	24 V DC (2 A)
	48 V DC (1 A)

UL connection data

Tightening torque	4.4 lb_f-in.
Conductor cross-section AWG	16 ... 12

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

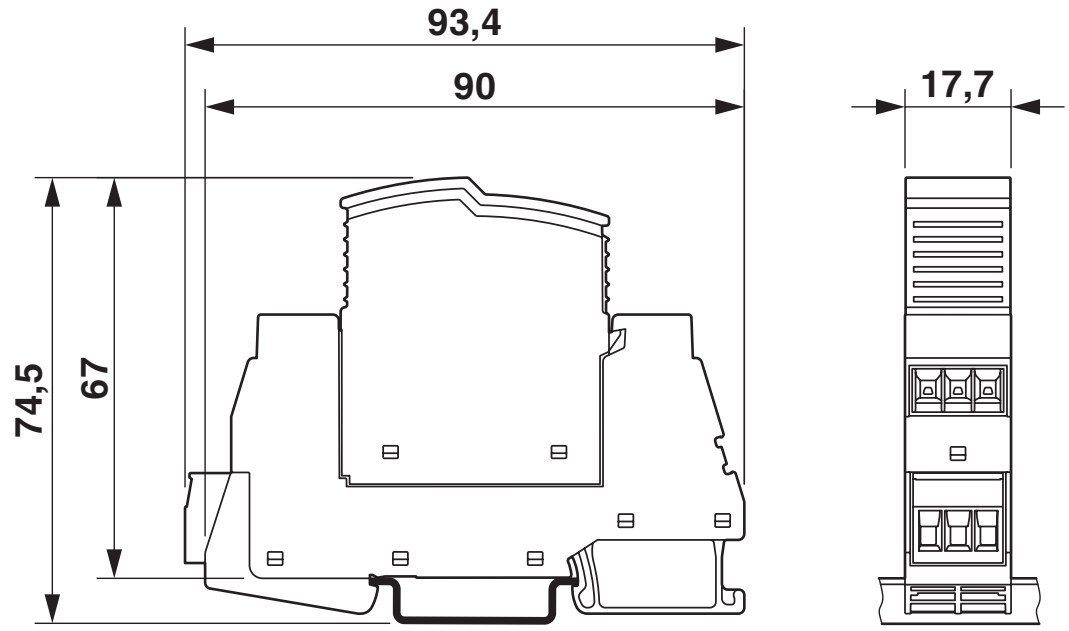
Standards/specifications	EN 61643-11
Note	2012

Mounting

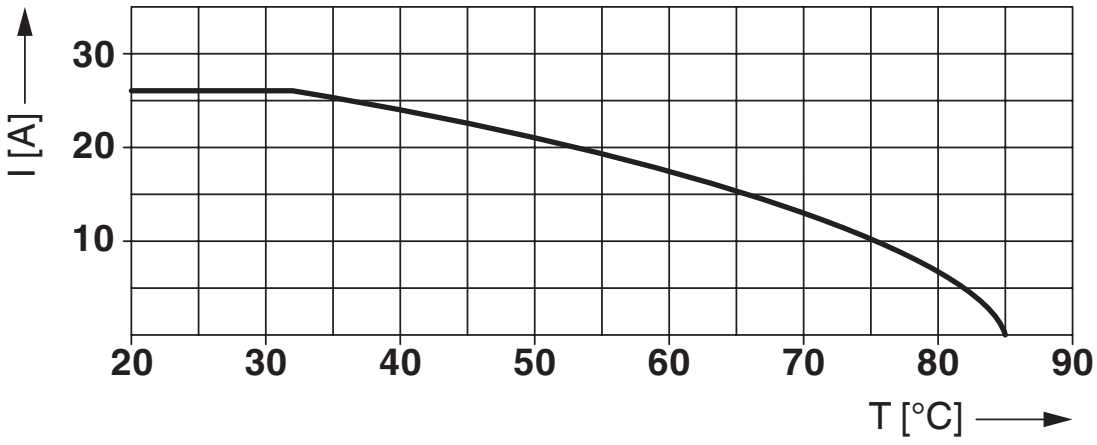
Mounting type	DIN rail: 35 mm

Drawings

Dimensional drawing

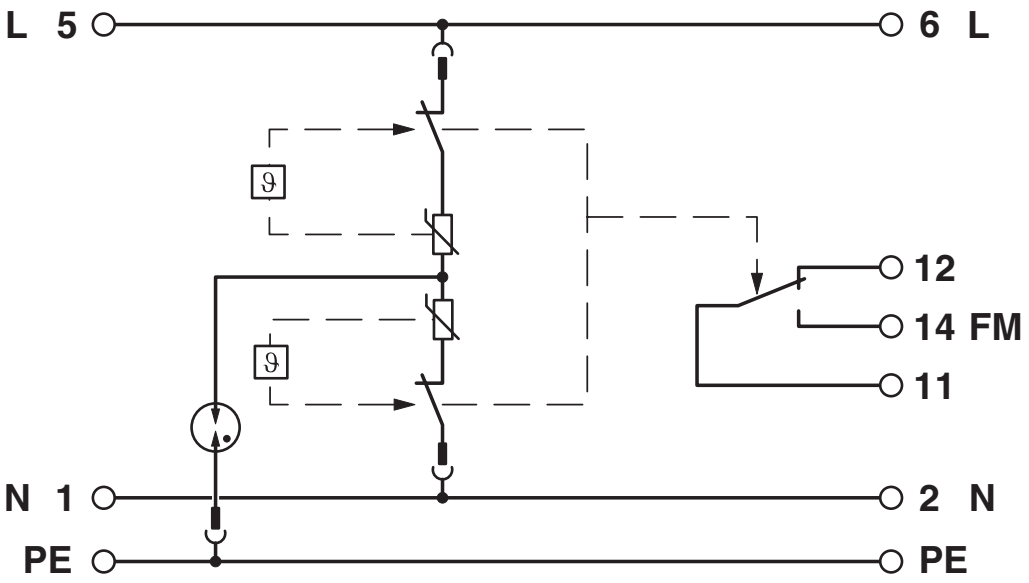


Diagram



Nominal current depending on ambient temperature

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2907919

cUL Recognized
Approval ID: FILE E 330181

UL Recognized
Approval ID: FILE E 330181

IECEE CB Scheme
Approval ID: NL-51083

CCA
Approval ID: NTR-NL 7676

KEMA-KEUR
Approval ID: 71-103027

CSA
Approval ID: 13631

UAE-RoHS
Approval ID: 23-10-88891

DNV
Approval ID: TAE00002U7

cUL Recognized
Approval ID: FILE E 340736

UL Recognized
Approval ID: FILE E 340736

Classifications

ECLASS

ECLASS-13.0	27171203
ECLASS-15.0	27171203

ETIM

ETIM 10.0	EC000942

UNSPSC

UNSPSC 21.0	39121600

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 2026 © - 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