

2800419

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Lightning/surge arrester, according to type 1/2 / class I/II, for 1-phase power supply networks with combined PE and N installed in one conductor (L1, PEN).

Your advantages

- · Use in harsh environments with robust design
- · Universal solution for various network types
- · Function monitoring using optical status indicator
- · Multi-stage status monitoring via remote indication contact

Commercial data

Item number	2800419
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1141
GTIN	4046356556156
Weight per piece (including packing)	3,500 g
Weight per piece (excluding packing)	3,500 g
Customs tariff number	85363010
Country of origin	TR



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Technical data

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General	
Note	Assembling: Two 8 mm screws with 8 Nm on an isolated or grounded surface
	Long-wave surge current 2 ms in accordance with IEC 60099-4: 250 x 1.0 kA; 500 x 0.5 kA.
roduct properties	
Product type	Arrester combination
Product family	POWERTRAB
IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
	IT
Туре	Installation module
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	8 kV: IV (600 V), III (1000 V)
Pollution degree	3
Electrical properties	
Nominal frequency f _N	50 Hz (60 Hz)
Nominal voltage U _N	690 V AC
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	2x N/C contacts, 1-pos.
Operating voltage	30 V AC
	30 V DC
Operating current	1.5 A AC
	1.5 A DC
Supply: Status indicator/remote signaling	
Operating voltage	19.2 V AC/DC 30 V AC/DC
Operating current	7 mA AC/DC 13 mA AC/DC
Rated current	10 mA AC/DC
Max. required back-up fuse	1 A (e.g. T to IEC 127-2/III)
Immunity to interference according to IEC 61000-4-5 (line-line)	1 kV
Immunity to interference according to IEC 61000 4 F (line corth)	C LV

6 kV

Immunity to interference according to IEC 61000-4-5 (line-earth)



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Connection data

Double terminal point

Connection method	Screw connection
Screw thread	M6
Tightening torque	8.5 Nm
Stripping length	24 mm
Conductor cross-section flexible	16 mm² 50 mm²
Conductor cross-section rigid	16 mm² 50 mm²
Conductor cross-section AWG	6 1/0

PE conductor connection

Connection method	Ring cable lug
Tightening torque	20 Nm
Conductor cross-section flexible	16 mm² 95 mm²
Conductor cross-section rigid	16 mm² 95 mm²
Conductor cross-section AWG	6 3/0

Remote fault indicator contact

Screw thread	M3
Tightening torque	0.55 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12

Dimensions

Dimensional drawing	98 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Width	56 mm
Height	191 mm
Depth	280 mm
Horizontal pitch	3 Div.

Material specifications

Color	silver-colored
Flammability rating according to UL 94	V-2
CTI value of material	600
	250
Insulating material	PA/PC



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Material group	I (PA 6.6/PC)
	IIIa (PA 4.6)
Housing material	Die-cast aluminum, salt water resistant
Housing surface material	die-cast aluminum

Mechanical properties

Mechanical data

Open side panel	No
The second secon	

Protective circuit

$ \begin{aligned} & \text{Direction of action} & 1\text{L-PEN} \\ & \text{Nominal voltage U_N} \\ & & 690 \lor AC \\ \hline & 554/960 \lor AC (TN-C) \\ \hline & 690 \lor AC (TT) \\ \hline & 690 \lor AC$	Mode of protection	L-PE
$\begin{array}{c} 554/960 \ V \ AC \ (TN-C) \\ \hline \\ 690 \ V \ AC \ (TT) \\ \hline \\ Nominal frequency f_N \\ \hline \\ Maximum continuous operating voltage U_C \ (L-PE) 800 \ V \ AC \\ \hline \\ Rated load current I_L \\ \hline \\ Protective conductor current I_{PE} \\ \hline \\ Standby power consumption P_C \\ \hline \\ Nominal discharge current I_n \ (B/20) \ \mu s \ (L-PE) \\ \hline \\ Maximum discharge current I_n \ (B/20) \ \mu s \ (L-PE) \\ \hline \\ Maximum discharge current (10/350) \ \mu s \ (L-PE) \\ \hline \\ Impulse discharge current (10/350) \ \mu s \ (L-PE), charge \\ \hline \\ Impulse discharge current (10/350) \ \mu s \ (L-PE), peak current value \\ I_{Imp} \\ \hline \\ Impulse discharge current (10/350) \ \mu s \ (L-PE), peak current value \\ I_{Imp} \\ \hline \\ Impulse discharge current (10/350) \ \mu s \ (L-PE), peak current value \\ I_{Imp} \\ \hline \\ Short-circuit current rating I_{SCR} \\ \hline \\ Sob \ kA \\ \hline \\ Voltage protection level \ U_p \ (L-PE) \\ \hline \\ Residual \ voltage \ U_{res} \ (L-PE) \\ \hline \\ \begin{cases} 2.7 \ kV \ (at \ I_n) \\ \le 2.5 \ kV \ (at \ 20 \ kA) \\ \le 2.3 \ kV \ (at \ 10 \ kA) \\ \le 2.2 \ kV \ (at \ 5 \ kA) \\ \hline \\ \hline \\ TOV \ behavior \ at \ U_T \ (L-PE) \\ \hline \\ Max. \ backup \ fuse \ with \ V-type \ through \ wirring \\ \hline \\ Max. \ backup \ fuse \ with \ branch \ wirring \\ \hline \end{cases} $	Direction of action	1L-PEN
	Nominal voltage U_N	690 V AC
Nominal frequency f_N 50 Hz (60 Hz) Maximum continuous operating voltage U_C (L-PE) 800 V AC Rated load current I_L 150 A (Serial through wiring with 50 mm²) Protective conductor current I_{PE} ≤ 20 µA Standby power consumption P_C ≤ 16 mVA Nominal discharge current I_{max} (8/20) µs (L-PE) 35 kA Maximum discharge current (10/350) µs (L-PE) 100 kA Impulse discharge current (10/350) µs (L-PE), charge 17.5 As Impulse discharge current (10/350) µs (L-PE), specific energy 305 kJ/Ω Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 305 kJ/Ω Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Voltage protection level Up (L-PE) 50 kA Sesidual voltage Ures (L-PE) ≤ 2.		554/960 V AC (TN-C)
Maximum continuous operating voltage U_{C} (L-PE) 800 V AC Rated load current I_{L} 150 A (Serial through wiring with 50 mm²) Protective conductor current I_{PE} ≤ 20 μA Standby power consumption P_{C} ≤ 16 mVA Nominal discharge current I_{max} (8/20) μs (L-PE) 35 kA Maximum discharge current I_{max} (8/20) μs (L-PE) 100 kA Impulse discharge current (10/350) μs (L-PE), charge 17.5 As Impulse discharge current (10/350) μs (L-PE), specific energy 305 kJ/Ω Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 305 kJ/Ω Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Impulse discharge current (10/350) μs (L-PE), specific energy 35 kA Voltage protection level Up (L-PE) 50 kA Voltage protection level Up (L-PE) ≤ 2.7 kV (at I_p) ≤ 2.5 kV (at 20 k		690 V AC (IT)
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Nominal frequency f _N	50 Hz (60 Hz)
Protective conductor current I_{PE} ≤ 20 µA Standby power consumption P_C ≤ 16 mVA Nominal discharge current I_n (8/20) µs (L-PE) 35 kA Maximum discharge current I_{max} (8/20) µs (L-PE) 100 kA Impulse discharge current (10/350) µs (L-PE), charge 17.5 As Impulse discharge current (10/350) µs (L-PE), specific energy 305 kJ/ Ω Impulse discharge current (10/350) µs (L-PE), peak current value I_{timp} Follow current interrupt rating I_n (L-PE) 50 kA Short-circuit current rating I_{SCCR} 50 kA Voltage protection level U_p (L-PE) ≤ 4.5 kV Residual voltage U_{res} (L-PE) $\frac{1}{2}$ ≤ 2.7 kV (at 1_n) $\frac{1}{2}$ ≤ 2.8 kV (at 10 kA) $\frac{1}{2}$ ≤ 2.8 kV (at 5 kA) $\frac{1}{2}$ 2.1 kV (at 3 kA) TOV behavior at U_T (L-PE) $\frac{1}{2}$ 1960 V AC (200 ms / withstand mode) $\frac{1}{2}$ 50 V AC (5 s / withstand mode) Response time I_n (L-PE) $\frac{1}{2}$ 100 ns Max. backup fuse with V-type through wiring 125 A (gG at 235 mm²)	Maximum continuous operating voltage U_C (L-PE)	800 V AC
$\begin{array}{lll} \text{Standby power consumption P_{C}} & \leq 16 \text{mVA} \\ \\ \text{Nominal discharge current I_{max} (8/20) $\mu \text{s (L-PE)}$} & 35 \text{kA} \\ \\ \text{Maximum discharge current $(10/350) $\mu \text{s (L-PE)}$} & 100 \text{kA} \\ \\ \text{Impulse discharge current $(10/350) $\mu \text{s (L-PE)}$}, charge & 17.5 \text{As} \\ \\ \text{Impulse discharge current $(10/350) $\mu \text{s (L-PE)}$}, specific energy & 305 \text{kJ/}\Omega \\ \\ \text{Impulse discharge current $(10/350) $\mu \text{s (L-PE)}$}, specific energy & 305 \text{kJ}/\Omega \\ \\ \text{Impulse discharge current $(10/350) $\mu \text{s (L-PE)}$}, peak current value I_{limp} & 35 \text{kA} \\ \\ \\ \text{Impulse discharge current $(10/350) $\mu \text{s (L-PE)}$}, peak current value I_{limp} & 35 \text{kA} \\ \\ \\ \text{Follow current interrupt rating I_{fi} (L-PE)} & 50 \text{kA} \\ \\ \text{Short-circuit current rating I_{SCCR}} & 50 \text{kA} \\ \\ \text{Voltage protection level U_{p} (L-PE)} & \leq 4.5 \text{kV} \\ \\ \text{Residual voltage U_{res}} (L-PE) & \leq 2.7 \text{kV (at I_{n}}) \\ \\ \leq 2.5 \text{kV (at 20kA}) \\ \\ \leq 2.5 \text{kV (at 20kA}) \\ \\ \leq 2.2 \text{kV (at 10kA}) \\ \\ \leq 2.2 \text{kV (at 3kA}) \\ \\ \text{TOV behavior at U_{T} (L-PE)} & 1960 \text{V AC (200 ms / withstand mode)} \\ \\ \text{Response time I_{A} (L-PE)} & \leq 100 \text{ns} \\ \\ \text{Max. backup fuse with V-type through wiring} & 125 \text{A (gG at $235 mm}^2)} \\ \\ \text{Max. backup fuse with branch wiring} & 400 \text{A (gG at $2x 50 mm}^2)} \\ \end{array}$	Rated load current I _L	150 A (Serial through wiring with 50 mm²)
Nominal discharge current I_n (8/20) µs (L-PE) 35 kA Maximum discharge current (10/350) µs (L-PE) 100 kA Impulse discharge current (10/350) µs (L-PE), charge 17.5 As Impulse discharge current (10/350) µs (L-PE), specific energy 305 kJ/ Ω Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), specific energy 35 kA Impulse discharge current (10/350) µs (L-PE), peak current value I_{limp} Follow current interrupt rating I_{SCCR} 50 kA Short-circuit current rating I_{SCCR} 50 kA Voltage protection level U_p (L-PE) $\leq 4.5 \text{ kV}$ Residual voltage U_{res} (L-PE) $\leq 2.7 \text{ kV}$ (at I_n) $\leq 2.5 \text{ kV}$ (at 20 kA) $\leq 2.3 \text{ kV}$ (at 10 kA) $\leq 2.2 \text{ kV}$ (at 3 kA) TOV behavior at U_T (L-PE) 1960 V AC (200 ms / withstand mode) 1500 V AC (5 s / withstand mode) Response time I_A (L-PE) $\leq 100 \text{ ns}$ Max. backup fuse with V-type through wiring 125 A (gG at $\geq 35 \text{ mm}^2$) Max. backup fuse with branch wiring 400 A (gG at $\geq 2.5 \text{ bm}^2$)	Protective conductor current I _{PE}	≤ 20 µA
Maximum discharge current Imax (8/20) μs (L-PE)100 kAImpulse discharge current (10/350) μs (L-PE), charge17.5 AsImpulse discharge current (10/350) μs (L-PE), specific energy $305 \text{ kJ/}\Omega$ Impulse discharge current (10/350) μs (L-PE), peak current value Impulse discharge current (10/350) μs (L-PE), peak current value Impulse discharge current (10/350) μs (L-PE), peak current value Impulse discharge current (10/350) μs (L-PE), peak current value Impulse discharge current (10/350) μs (L-PE) 35 kA Follow current interrupt rating Is (L-PE) 50 kA Short-circuit current rating Is (L-PE)≤ 4.5 kVResidual voltage Ures (L-PE)≤ 2.7 kV (at In)≤ 2.7 kV (at 10 kA)≤ 2.3 kV (at 10 kA)≤ 2.2 kV (at 5 kA)≤ 2.1 kV (at 3 kA)TOV behavior at UT (L-PE)1960 V AC (200 ms / withstand mode)Response time tA (L-PE)≤ 100 nsMax. backup fuse with V-type through wiring125 A (gG at ≥35 mm²)Max. backup fuse with branch wiring400 A (gG at 2x 50 mm²)	Standby power consumption P _C	≤ 16 mVA
Impulse discharge current (10/350) μs (L-PE), charge 17.5 As Impulse discharge current (10/350) μs (L-PE), specific energy $305 \text{ kJ/}\Omega$ Impulse discharge current (10/350) μs (L-PE), peak current value I_{imp} 35 kA Follow current interrupt rating I_{fi} (L-PE) 50 kA Short-circuit current rating I_{SCCR} 50 kA Voltage protection level U_p (L-PE) ≤ 4.5 kV Residual voltage U_{res} (L-PE) ≤ 2.7 kV (at I_n) ≤ 2.5 kV (at 20 kA) ≤ 2.5 kV (at 10 kA) ≤ 2.2 kV (at 5 kA) ≤ 2.2 kV (at 3 kA) TOV behavior at U_T (L-PE) 1960 V AC (200 ms / withstand mode) Response time t_A (L-PE) ≤ 100 ns Max. backup fuse with V-type through wiring 125 A (gG at ≥35 mm²) Max. backup fuse with branch wiring 400 A (gG at 2x 50 mm²)	Nominal discharge current I _n (8/20) µs (L-PE)	35 kA
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Maximum discharge current I _{max} (8/20) μs (L-PE)	100 kA
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Impulse discharge current (10/350) µs (L-PE), charge	17.5 As
$\begin{array}{lll} I_{imp} & & & \\ Follow current interrupt rating I_{fi} (L-PE) & 50 kA \\ \\ Short-circuit current rating I_{SCCR} & 50 kA \\ \\ Voltage protection level U_{p} (L-PE) & \leq 4.5 kV \\ \\ Residual voltage U_{res} (L-PE) & & \leq 2.7 kV (at I_{n}) \\ & \leq 2.5 kV (at 20 kA) \\ & \leq 2.3 kV (at 10 kA) \\ & \leq 2.2 kV (at 5 kA) \\ & \leq 2.1 kV (at 3 kA) \\ \hline TOV behavior at U_{T} (L-PE) & & 1960 V AC (200 ms / withstand mode) \\ & & 1500 V AC (5 s / withstand mode) \\ \hline Response time t_{A} (L-PE) & \leq 100 ns \\ \\ Max. backup fuse with V-type through wiring & 125 A (gG at \geq 35 mm^2) \\ \\ Max. backup fuse with branch wiring & 400 A (gG at 2x 50 mm^2) \\ \end{array}$	Impulse discharge current (10/350) µs (L-PE), specific energy	305 kJ/Ω
$Short-circuit current rating I_{SCCR} $		35 kA
$Voltage \ protection \ level \ U_p \ (L-PE) \\ &\leq 4.5 \ kV \\ Residual \ voltage \ U_{res} \ (L-PE) \\ &\leq 2.7 \ kV \ (at \ I_n) \\ &\leq 2.5 \ kV \ (at \ 20 \ kA) \\ &\leq 2.3 \ kV \ (at \ 10 \ kA) \\ &\leq 2.2 \ kV \ (at \ 5 \ kA) \\ &\leq 2.1 \ kV \ (at \ 3 \ k$	Follow current interrupt rating I _{fi} (L-PE)	50 kA
$ \begin{array}{l} \text{Residual voltage U_{res} (L-PE)} & \leq 2.7 \text{ kV (at I_{n})} \\ & \leq 2.5 \text{ kV (at 20 kA)} \\ & \leq 2.3 \text{ kV (at 10 kA)} \\ & \leq 2.2 \text{ kV (at 5 kA)} \\ & \leq 2.1 \text{ kV (at 3 kA)} \\ \hline \text{TOV behavior at U_{T} (L-PE)} & 1960 \text{ V AC (200 ms / withstand mode)} \\ & 1500 \text{ V AC (5 s / withstand mode)} \\ \hline \text{Response time t_{A} (L-PE)} & \leq 100 \text{ ns} \\ \hline \text{Max. backup fuse with V-type through wiring} & 125 \text{ A (gG at } \geq 35 \text{ mm}^2)} \\ \hline \text{Max. backup fuse with branch wiring} & 400 \text{ A (gG at } 2x \text{ 50 mm}^2)} \\ \hline \end{array} $	Short-circuit current rating I _{SCCR}	50 kA
$ \leq 2.5 \text{ kV (at } 20 \text{ kA)} $ $ \leq 2.3 \text{ kV (at } 10 \text{ kA)} $ $ \leq 2.2 \text{ kV (at } 5 \text{ kA)} $ $ \leq 2.1 \text{ kV (at } 3 \text{ kA)} $ $ \text{TOV behavior at U}_{\text{T}} \text{ (L-PE)} $ $ 1960 \text{ V AC (} 200 \text{ ms / withstand mode)} $ $ 1500 \text{ V AC (} 5 \text{ s / withstand mode)} $ $ \text{Response time t}_{\text{A}} \text{ (L-PE)} $ $ \leq 100 \text{ ns} $ $ \text{Max. backup fuse with V-type through wiring} $ $ 125 \text{ A (gG at } \geq 35 \text{ mm}^2 \text{)} $ $ \text{Max. backup fuse with branch wiring} $ $ 400 \text{ A (gG at } 2x \text{ 50 mm}^2 \text{)} $	Voltage protection level U _p (L-PE)	≤ 4.5 kV
$ \leq 2.3 \text{ kV (at 10 kA)} $ $ \leq 2.2 \text{ kV (at 5 kA)} $ $ \leq 2.1 \text{ kV (at 3 kA)} $ $ \leq 2.1 \text{ kV (at 3 kA)} $ $ \text{TOV behavior at U}_{\text{T}} \text{ (L-PE)} $ $ 1960 \text{ V AC (200 ms / withstand mode)} $ $ 1500 \text{ V AC (5 s / withstand mode)} $ $ \text{Response time t}_{\text{A}} \text{ (L-PE)} $ $ \leq 100 \text{ ns} $ $ \text{Max. backup fuse with V-type through wiring} $ $ 125 \text{ A (gG at } \geq 35 \text{ mm}^2 \text{)} $ $ \text{Max. backup fuse with branch wiring} $ $ 400 \text{ A (gG at } 2x 50 \text{ mm}^2 \text{)} $	Residual voltage U _{res} (L-PE)	\leq 2.7 kV (at I _n)
$ \leq 2.2 \text{ kV (at 5 kA)} $ $ \leq 2.1 \text{ kV (at 3 kA)} $ $ 1960 \text{ V AC (200 ms / withstand mode)} $ $ 1500 \text{ V AC (5 s / withstand mode)} $ $ Response time t_A (L-PE) \leq 100 \text{ ns} Max. backup fuse with V-type through wiring 125 \text{ A (gG at } \geq 35 \text{ mm}^2) Max. backup fuse with branch wiring 400 \text{ A (gG at } 2x 50 \text{ mm}^2) $		≤ 2.5 kV (at 20 kA)
$ \leq 2.1 \text{ kV (at 3 kA)} $ $ = 2.1 \text{ kV (at 3 kA)} $ $ = 1960 \text{ V AC (200 ms / withstand mode)} $ $ = 1500 \text{ V AC (5 s / withstand mode)} $ $ = 100 \text{ ns} $ $ = 125 \text{ A (gG at } \geq 35 \text{ mm}^2) $ $ = 125 \text{ A (gG at } 2x \text{ 50 mm}^2) $ $ = 125 \text{ A (gG at } 2x \text{ 50 mm}^2) $		≤ 2.3 kV (at 10 kA)
TOV behavior at U_T (L-PE)		≤ 2.2 kV (at 5 kA)
$1500 \text{ V AC } (5 \text{ s / withstand mode})$ Response time t_A (L-PE) $\leq 100 \text{ ns}$ Max. backup fuse with V-type through wiring $125 \text{ A } (gG \text{ at } \geq 35 \text{ mm}^2)$ Max. backup fuse with branch wiring $400 \text{ A } (gG \text{ at } 2x 50 \text{ mm}^2)$		≤ 2.1 kV (at 3 kA)
Response time t_A (L-PE)≤ 100 nsMax. backup fuse with V-type through wiring125 A (gG at ≥35 mm²)Max. backup fuse with branch wiring400 A (gG at 2x 50 mm²)	TOV behavior at U _T (L-PE)	1960 V AC (200 ms / withstand mode)
Max. backup fuse with V-type through wiring125 A (gG at ≥35 mm²)Max. backup fuse with branch wiring400 A (gG at 2x 50 mm²)		1500 V AC (5 s / withstand mode)
Max. backup fuse with branch wiring 400 A (gG at 2x 50 mm²)	Response time t _A (L-PE)	≤ 100 ns
	Max. backup fuse with V-type through wiring	125 A (gG at ≥35 mm²)
800 A (aR (only up to I _{imp} = 25 kA))	Max. backup fuse with branch wiring	400 A (gG at 2x 50 mm²)
		800 A (aR (only up to I _{imp} = 25 kA))

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)



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Ambient temperature (operation)	-40 °C 80 °C
	-40 °C 55 °C (serial through wiring ≥ 35 mm²)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 Hz 150 Hz / 2.5 h / X, Y, Z)
	4g (5 100 Hz / X, Y, Z - according to GL)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-G)	800 V AC
Nominal discharge current I _n (L-G)	20 kA
Mode of protection	L-G
Nominal voltage	690 V AC
Power distribution system	Single phase
Nominal frequency	60 Hz
Measured limiting voltage MLV (L-G)	4370 V
SPD Type	4CA

UL indicator/remote signaling

Operating voltage	30 V AC
DC operating voltage	30 V DC
AC operating current	1.5 A AC
DC operating current	1.5 A DC

UL connection data Double terminal point

Tightening torque	75 lb _f -in.
Conductor cross-section AWG	1/0 6

UL connection data PE conductor connection

Tightening torque	175 lb _f -in.
Conductor cross-section AWG	3/0

Standards and regulations

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

Mounting

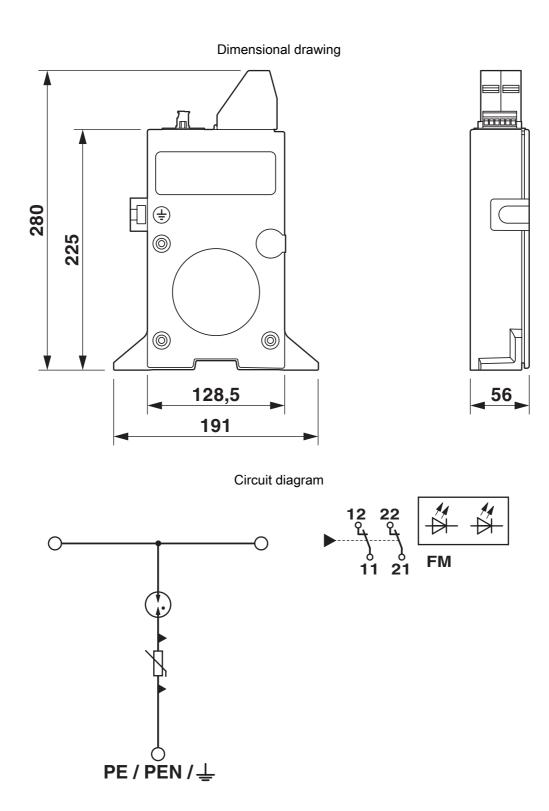
Mounting type	Screw mounting
Mountaing type	colon mounting



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Drawings





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2800419



IECEE CB Scheme

Approval ID: AT 2648

CCA

Approval ID: NTR-AT 1910



KEMA-KEUR

Approval ID: 2162738-01



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Classifications

ECLASS

	ECLASS-13.0	27171201
	ECLASS-15.0	27171201
ETIM		
	ETIM 9.0	EC000381
U	NSPSC	
	UNSPSC 21.0	39121600



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Environmental product compliance

EU RoHS

Yes
7(a), 7(c)-l
EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
N,N-dimethylacetamide(CAS: 127-19-5)
Lead(CAS: 7439-92-1)
eff15f00-e0d0-406e-83c0-24c622b568aa

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