

2800625

https://www.phoenixcontact.com/us/products/2800625

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Type 3 arresters for universal installation in installation boxes, sill-type trunking, underfloor installations or direct installation in the termination device. Circuit with thermal monitoring and visual fault warning. Installation in branch or through wiring. Version: 230 V AC

Your advantages

- · Optimal additional protection of the building installation for longer service life and increased availability of the end devices
- · Can be used universally, thanks to its compact design
- · Concealed surge protection, thanks to installation in the device socket
- · Excellent level of information provided, thanks to visual or audible fault indication

Commercial data

Item number	2800625
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1441
Catalog page	Page 87 (C-4-2019)
GTIN	4046356620437
Weight per piece (including packing)	45.4 g
Weight per piece (excluding packing)	42.4 g
Country of origin	DE



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Technical data

Product properties

Product type	Device protection
Product family	BLOCKTRAB
IEC power supply system	TN-S
	TT
	IT with N conductor
Туре	Installation module
Distance between live and grounded parts	3 mm
Number of positions	2
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	III
	T3
EN type	T3
Number of ports	One
Distance between live and grounded parts	3 mm

Connection data

Connection method	Spring-cage connection
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 14

Dimensions

Dimensional drawing	22.6 P F LE
Width	22.5 mm
Height	43 mm
Depth	27.4 mm

Material specifications

Color	black (RAL 9005)
	black (RAL 9005)
Flammability rating according to UL 94	V-0



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CTI value of material	600
Insulating material	PA 6.6
Housing material	PA 6.6

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Direction of action	L(N)-PE
Nominal voltage U _N	230/400 V AC (TN-S)
	230/400 V AC (TT - only in use with RCD)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-N)	275 V AC
Maximum continuous operating voltage U_C (L-PE)	440 V AC
Maximum continuous operating voltage U_C (N-PE)	440 V AC
Rated load current I _L	16 A (30 °C)
Residual current I _{PE}	≤ 3 µA
Standby power consumption $P_{\mathbb{C}}$	≤ 400.00 mVA
Reference test voltage U _{REF}	255 V AC
Nominal discharge current I _n (8/20) μs	3 kA
Maximum discharge current I _{max} (8/20) μs	8 kA
Combination wave U _{OC}	6 kV
Voltage protection level U _p (L-N)	≤ 1.3 kV
Voltage protection level U _p (L-PE)	≤ 1.5 kV
Voltage protection level U _p (N-PE)	≤ 1.5 kV
Residual voltage at lamax, (L-N)	≤ 1.3 kV (at U _{OC})
Residual voltage at lamax, (L-PE)	≤ 1.5 kV (at U _{OC})
Residual voltage at lamax, (PE)	≤ 1.5 kV (at U _{OC})
TOV behavior at U _T (L-N)	335 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
TOV behavior at U _T (L-PE)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
	1455 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
Short-circuit current rating I _{SCCR}	1 kA AC
Max. backup fuse with branch wiring	16 A (MCB B)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-30 °C 75 °C
Ambient temperature (storage/transport)	-30 °C 75 °C



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Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % 95 %

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / IEC 60664-1 / IEC 61643-1 / EN 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	Screw mounting
Mounting type	Screw mounting

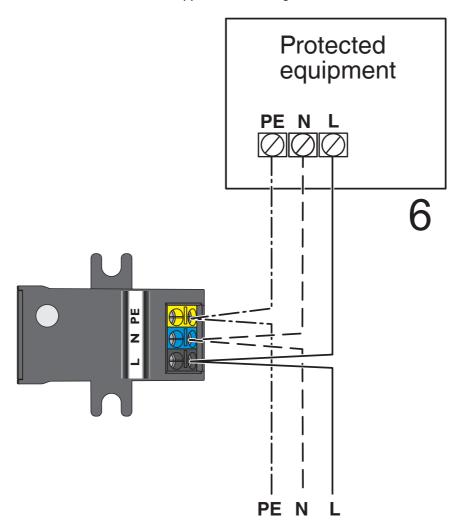


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Drawings

Application drawing



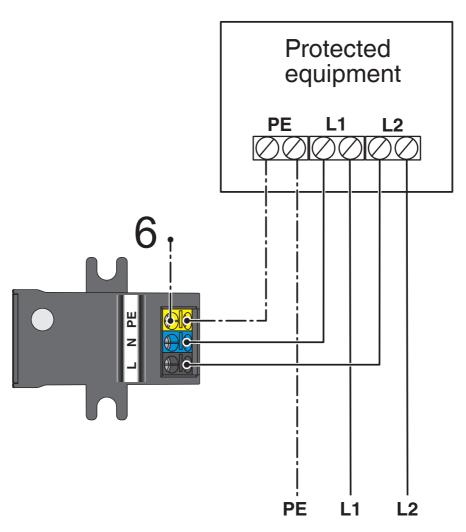
Installation directly in the device to be protected, 230 V TN-S/TT system - through wiring



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Application drawing

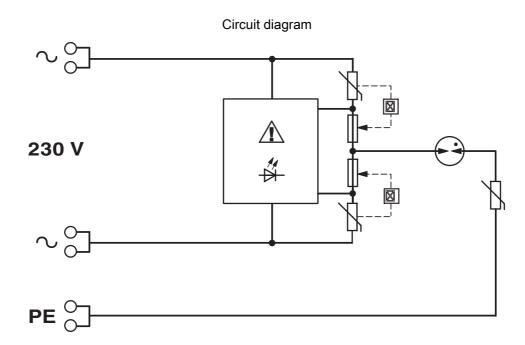


Installation directly in the device to be protected, 230 V IT system - branch wiring



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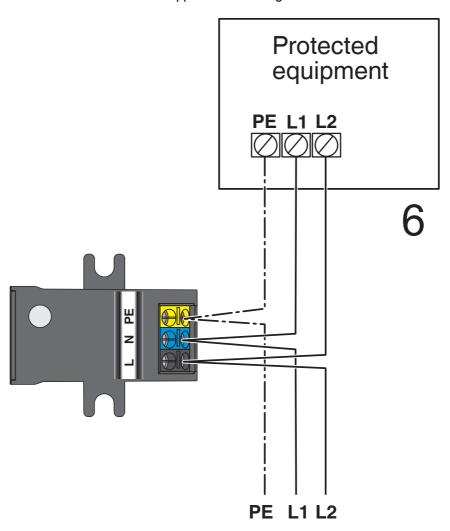




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Application drawing



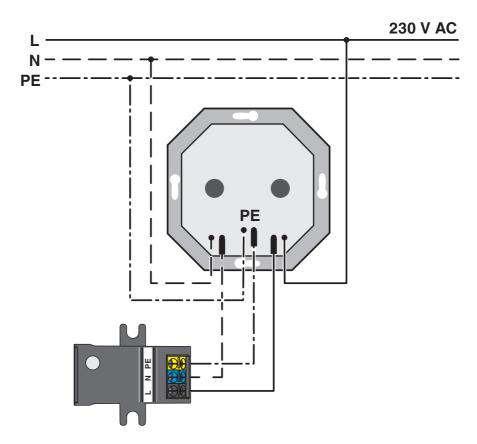
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Application drawing

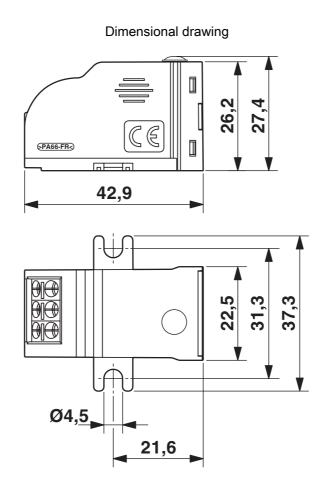


Installation in deep installation box - branch wiring



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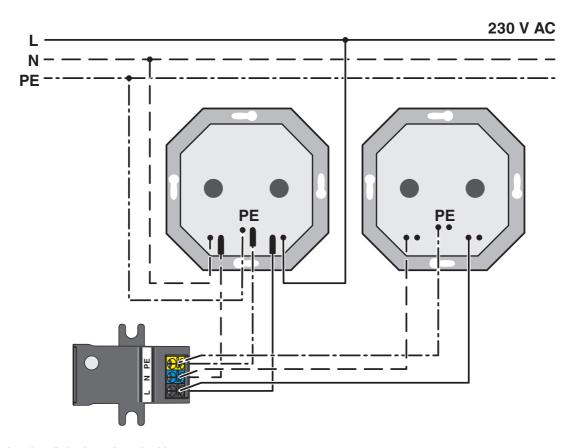




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Application drawing



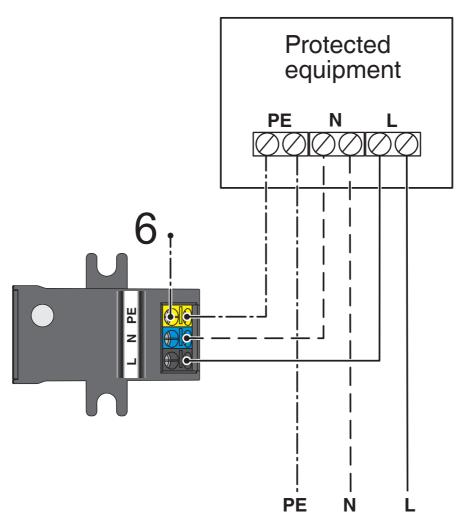
Installation in deep installation box - through wiring



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Application drawing



Installation directly in the device to be protected, 230 V TN-S/TT system - branch wiring



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2800625



EAC

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



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Classifications

ECLASS

	ECLASS-11.0	27130806	
	ECLASS-13.0	27171203	
ETIM			
LTIW			
	ETIM 9.0	EC000942	
UNSPSC			
	UNSPSC 21.0	39121600	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	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.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	20f16d4f-f10f-4181-9000-a64f66e082ce

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