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6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Your advantages

- Resistant to interference currents
- High relay release voltage

Commercial data

Item number	2980319
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK622M
Catalog page	Page 388 (C-5-2019)
GTIN	4017918895709
Weight per piece (including packing)	36.6 g
Weight per piece (excluding packing)	30.2 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Product type	Relay socket
Product family	PLC-INTERFACE
Application	Filter to prevent interference
Operating mode	100% operating factor
Compatible components	Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-

Data management status

Data management status		
Article revision	10	
Insulation characteristics		

60DC/24DC/2, OPT-60DC/230AC/1

Electrical properties

Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter

Input data

Nominal input voltage U _N	120 V AC
	110 V DC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
	120 V AC
	110 V DC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit

Relay assembly

Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range in reference to ${\rm U}_{\rm N}$	0.8 1.4
Typical input current at U _N	7 mA (50 Hz)
	8 mA (60 Hz)
Typical response time	7 ms
Typical release time	20 ms



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Typical release voltage	50 V AC
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter
Optocoupler assembly	
Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range in reference to U_N	0.85 1.1
Typical input current at U _N	7 mA (50 Hz)
	8 mA (60 Hz)
Switching threshold "0" signal in reference to ${\rm U}_{\rm N}$	≤ 0.4
Typical response time	6 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter

Output data

Compatible components	Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT- 60DC/24DC/2, OPT-60DC/230AC/1
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Maximum switching voltage	30 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Voltage drop at max. limiting continuous current	< 200 mV
Maximum inrush current	15 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Voltage drop at max. limiting continuous current	< 1 V
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating



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Protective circuit	RCV circuit
Leakage current	< 1 mA
Phase angle cos phi min	0.5
Max. load value	4.5 A ² s

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm ² 2.5 mm ²
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
	0.2 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm

Signaling

Status display	LED
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

CE		
Certificate	CE-compliant	
UKCA		
Certificate	UKCA-compliant	
Shipbuilding approval		
Certificate	TAE0000196	
Corrosive gas test		
Identification	ISA-S71.04. G3 Harsh Group	



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	EN 60068-2-60
DNV GL data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive

Mounting

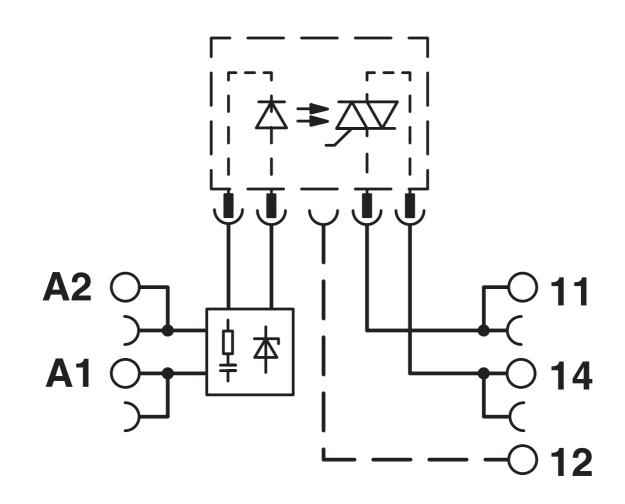
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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Drawings

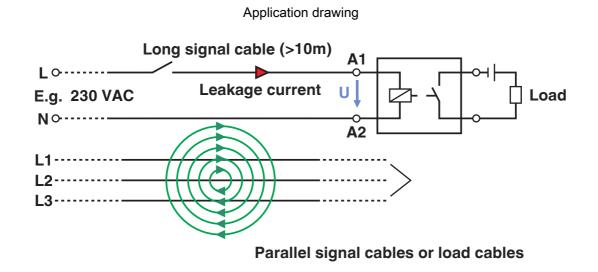
Circuit diagram





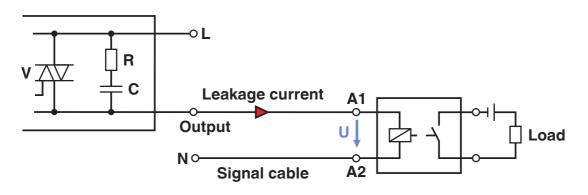
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Occurrence of interference signals Scenario 2: long signal cables

Application drawing



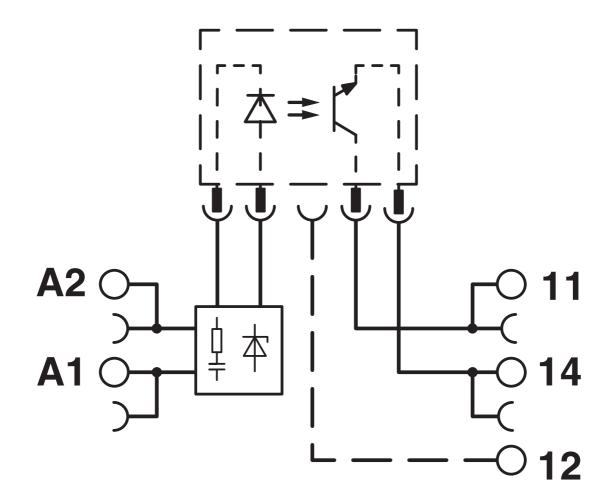
Occurrence of interference signals Scenario 1: controller - AC output card



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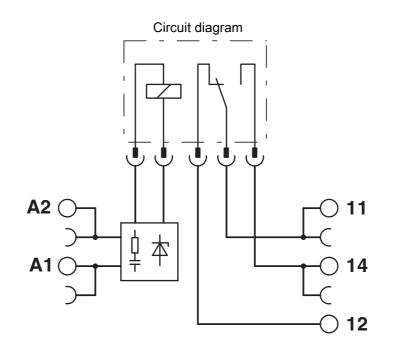
Circuit diagram





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2980319

17%	CUL Recognized Approval ID: E238705
91	UL Recognized Approval ID: E238705
ERC	EAC Approval ID: RU D-DE.B*00573/18
	DNV GL Approval ID: TAE0000196
cU	Lus Recognized



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Classifications

ECLASS

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	27371603

ETIM

	ETIM 9.0	EC001456
UNSPSC		
	UNSPSC 21.0	39122300



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Environmental product compliance

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.
Hexahydromethylphthalic anhydride(CAS: n/a)
Lead(CAS: 7439-92-1)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
21bc45aa-b1c3-4d5e-a39a-db8d2c42bd99

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