

2980335

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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 230 V AC

Your advantages

- · High relay release voltage
- · Resistant to interference currents

Commercial data

Item number	2980335
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C461
Product key	DK622M
GTIN	4017918895723
Weight per piece (including packing)	36.63 g
Weight per piece (excluding packing)	30.26 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the download area
oduct 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-60DC/24DC/2, OPT-60DC/230AC/1
nsulation characteristics	
Pollution degree	3
ectrical properties	
Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter
ut data Nominal input voltage U _N	230 V AC
	220 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 circ
	230 V AC
	220 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 circ
Relay assembly	
Nominal input voltage U _N	230 V AC
Input voltage range in reference to U _N	0.78 1.14
Typical input current at U _N	8.8 mA (50 Hz)
	10 mA (60 Hz)
Typical response time	7 ms
Typical release time	20 ms
Typical release voltage	80 V AC
Typical release voltage	

Filter; Filter



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Optocoupler assembly

Nominal input voltage U _N	230 V AC
Input voltage range in reference to U _N	0.8 1.1
Typical input current at U _N	8.8 mA (50 Hz)
	10 mA (60 Hz)
Switching threshold "0" signal in reference to U_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 DC
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 AC
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
Leakage current	< 1 mA
Phase angle cos phi min	0.5
Max. load value	$4.5 \mathrm{A}^2\mathrm{s}$



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Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
	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

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

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

Certificate

CE

UKCA	
Certificate	UKCA-compliant
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
	104 074 04 0011 1 0

CE-compliant

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Shipbuilding data

Temperature	D
Humidity	A



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	Vibration	B/C	
	EMC	В	
	Enclosure	Required protection according to the Rules shall be provided upon installation on board	
ΕM	1C data		
	Electromagnetic compatibility	Conformance with EMC directive	
	Low Voltage Directive	Conformance with Low Voltage Directive	
Standards and regulations			
	Standards/regulations	IEC/EN 60664-1	
Mounting			
	Mounting type	DIN rail mounting	
	Assembly note	in rows with zero spacing	
	Mounting position	any	

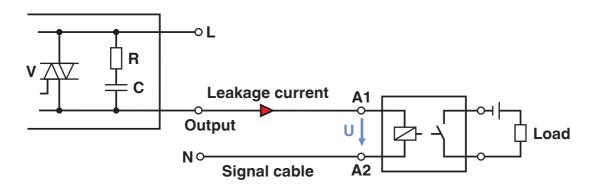
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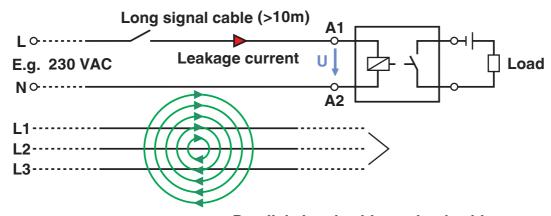
Drawings

Application drawing



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

Application drawing



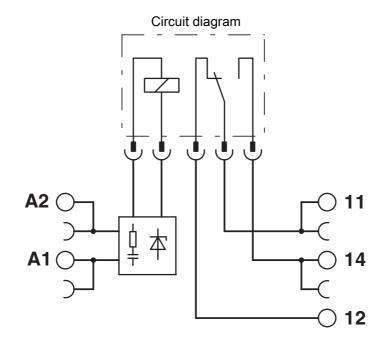
Parallel signal cables or load cables

Occurrence of interference signals Scenario 2: long signal cables



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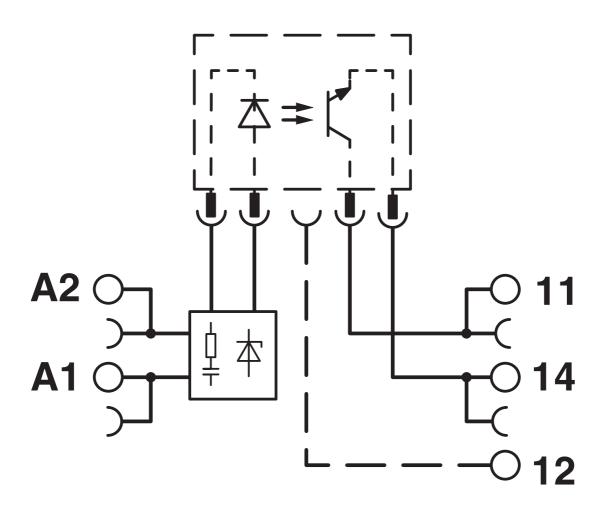




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Circuit diagram



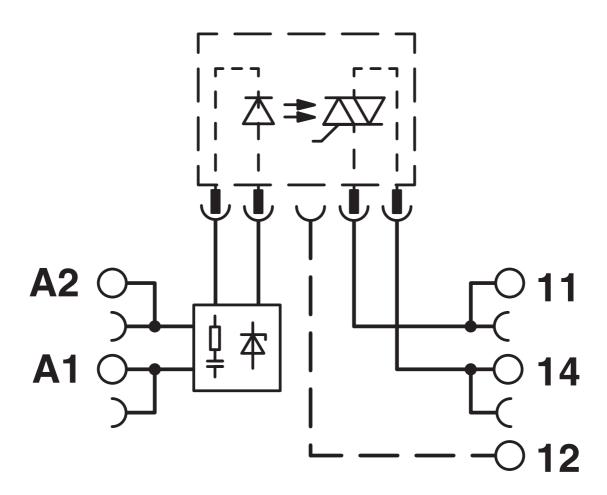
DC output



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Circuit diagram



AC output



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2980335



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



EAC

Approval ID: RU D-DE.B*00573/18



DNV GL

Approval ID: TAE0000196



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371603		
	ECLASS-15.0	27371603		
ETIM				
	ETIM 9.0	EC001456		
UNSPSC				

39122300



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
nvironment 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.
U REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: n/a)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: n/a)
SCIP	d16e42c1-db3e-45e5-9c8a-1c4e53bcccb5
F3.0 Climate Change	
CO2e kg	0.325 kg CO2e

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