

2980319

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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	DK622M
GTIN	4017918895709
Weight per piece (including packing)	35.345 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
roduct 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
Insulation characteristics	
Pollution degree	3
ectrical properties	Dil us Dil us
Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter
put 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 circu
	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 circu
Relay assembly	
Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range in reference to U _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
JP 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Typical release voltage	50 V AC
	50 V AC Yellow LED



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	Filter; Filter
Optocoupler assembly	
lominal 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 $\mathbf{U}_{\mathbf{N}}$	≤ 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
Protective circuit	RCV circuit
Leakage current	< 1 mA
Phase angle cos phi min	0.5



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Max. load value	$4.5 A^2 s$
onnection 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 mm² 1.5 mm² (TWIN ferrule)
Conductor cross-section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm
gnaling	
Status display	LED
mensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
00.01	gray (10 tz 70 12)
Flammability rating according to UL 94 (Housing)	V0 (Housing)
nvironmental and real-life conditions Ambient conditions	V0 (Housing)
nvironmental and real-life conditions	
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) oprovals CE	V0 (Housing) -40 °C 55 °C -40 °C 85 °C
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Oprovals CE Certificate	V0 (Housing) -40 °C 55 °C
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) oprovals CE Certificate UKCA	V0 (Housing) -40 °C 55 °C -40 °C 85 °C CE-compliant
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Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Oprovals CE Certificate UKCA Certificate Shipbuilding approval	V0 (Housing) -40 °C 55 °C -40 °C 85 °C CE-compliant UKCA-compliant
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Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Oprovals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test	V0 (Housing) -40 °C 55 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Oprovals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test	V0 (Housing) -40 °C 55 °C -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group



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Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC 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

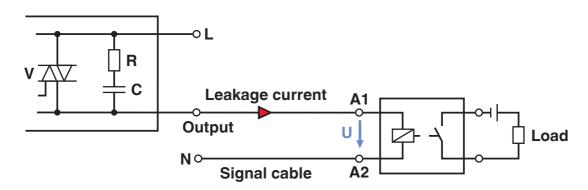
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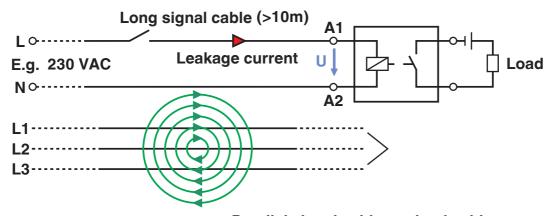
Drawings

Application drawing



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

Application drawing



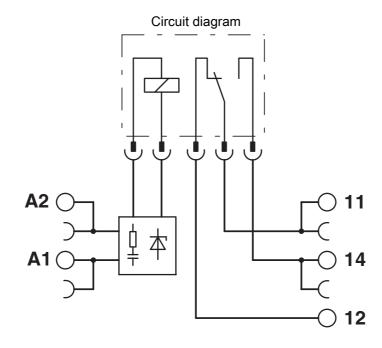
Parallel signal cables or load cables

Occurrence of interference signals Scenario 2: long signal cables



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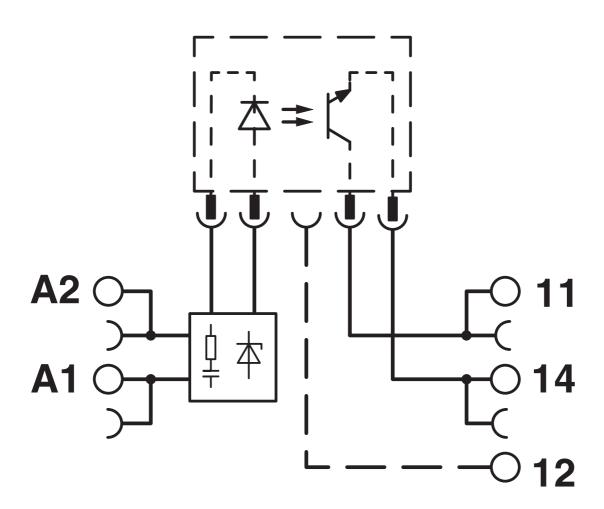




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Circuit diagram



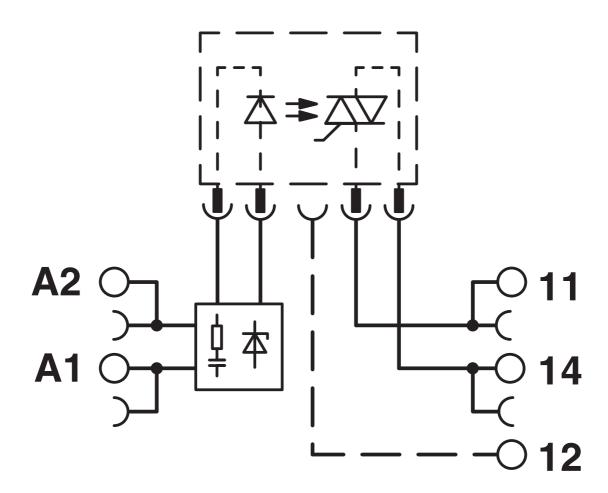
DC output



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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/2980319



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

ECLASS

	ECLASS-13.0	27371603
	ECLASS-15.0	27371603
ΕΊ	ТІМ	
	ETIM 9.0	EC001456
U	NSPSC	
	UNSPSC 21.0	39122300



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	21bc45aa-b1c3-4d5e-a39a-db8d2c42bd99

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