

2980322

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6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

### Your advantages

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

#### Commercial data

Item number	2980322
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK622M
Catalog page	Page 389 (C-5-2019)
GTIN	4017918895716
Weight per piece (including packing)	31 g
Weight per piece (excluding packing)	30.57 g
Customs tariff number	85366990
Country of origin	DE



2980322

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Operating voltage display

### 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
lectrical properties	
Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter
put data	
Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	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
Input voltage range in reference to $U_N$	0.85 1.1
Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	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
Relay assembly	
Nominal input voltage U <sub>N</sub>	120 V AC
	110 V DC
Input voltage range in reference to $U_N$	0.8 1.4
Typical input current at U <sub>N</sub>	7 mA (50 Hz)
	8 mA (60 Hz)
Typical response time	7 ms
Typical release time	20 ms
Typical release voltage	50 V AC
O	Valley, LED

Yellow LED



2980322

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Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter
Optocoupler assembly	
Nominal input voltage U <sub>N</sub>	120 V AC
	110 V DC
Input voltage range in reference to U <sub>N</sub>	0.85 1.1
Typical input current at U <sub>N</sub>	7 mA
	8 mA
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	≤ 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
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



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Phase angle cos phi min	0.5
Max. load value	4.5 A <sup>2</sup> s
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
001111111111111111111111111111111111111	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm² 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.45 Nm 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))
ignaling	
Status display	LED
vimensions	
Width	6.2 mm
VVIGUI	
Height	8() mm
Height Depth	94 mm
Depth	
Depth  Iaterial specifications	94 mm
Depth  Material specifications  Color  Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions	94 mm  gray (RAL 7042)  V0 (Housing)
Depth  Material specifications  Color  Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C
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Depth  Material specifications  Color Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  Approvals  CE	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C  -40 °C 85 °C
Depth  Material specifications  Color  Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C
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Depth  Material specifications  Color Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  Inprovals  CE  Certificate	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C  -40 °C 85 °C
Depth  Material specifications  Color  Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  Inprovals  CE  Certificate  UKCA	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C  -40 °C 85 °C  CE-compliant
Depth  Material specifications  Color  Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ipprovals  CE  Certificate  UKCA  Certificate	94 mm  gray (RAL 7042)  V0 (Housing)  -40 °C 55 °C  -40 °C 85 °C  CE-compliant
Depth  Material specifications  Color Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation) Ambient temperature (storage/transport)  Ipprovals  CE Certificate  UKCA Certificate  Shipbuilding approval Certificate	gray (RAL 7042) V0 (Housing)  -40 °C 55 °C -40 °C 85 °C  CE-compliant  UKCA-compliant
Depth  Material specifications  Color Flammability rating according to UL 94  Invironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  pprovals  CE Certificate  UKCA Certificate  Shipbuilding approval	gray (RAL 7042) V0 (Housing)  -40 °C 55 °C -40 °C 85 °C  CE-compliant  UKCA-compliant



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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

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

### Mounting

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

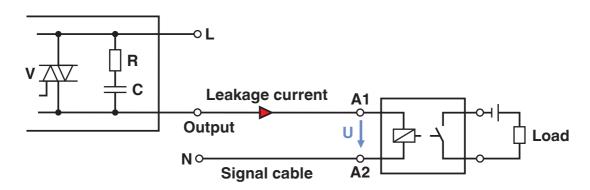


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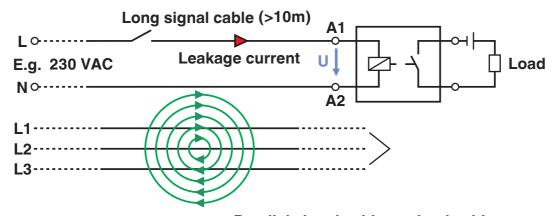
### Drawings

#### Application drawing



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

#### Application drawing



Parallel signal cables or load cables

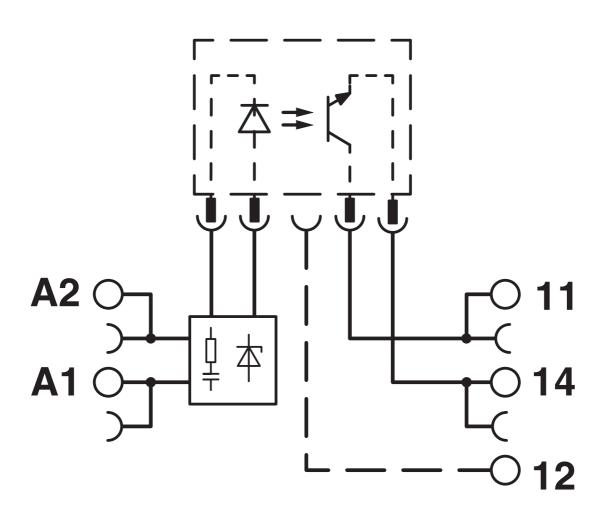
Occurrence of interference signals Scenario 2: long signal cables



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### Circuit diagram



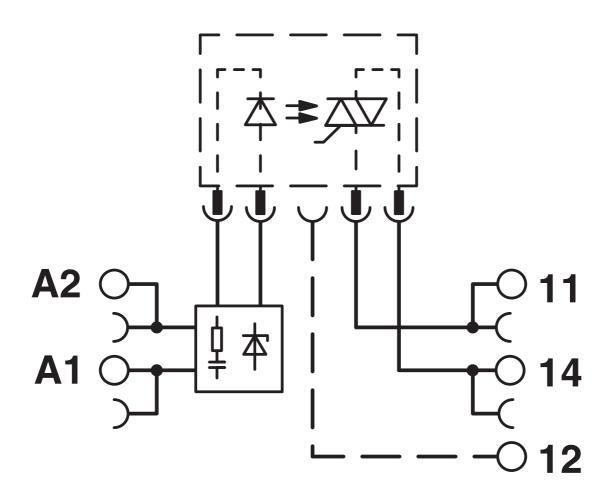
DC output



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### Circuit diagram

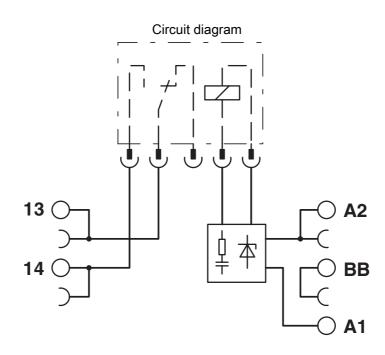


AC output



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### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2980322



**cUL Recognized**Approval ID: E238705



**UL Recognized**Approval ID: E238705



EAC

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



**DNV GL** 

Approval ID: TAE0000196

cULus Recognized



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### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	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	
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	0e97c364-b060-4da9-aca1-c79ebd1d9ae6

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