

1125985

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PLC-INTERFACE for protection against interference currents/voltages on the control side. Consisting of PLC-BSC-120UC/21-21/SO46 basic terminal block with screw connection and plug-in miniature relay with power contact up to 2x 8 A, 2 changeover contacts, 120 V AC input voltage

Commercial data

Item number	1125985
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK623M
GTIN	4063151052515
Weight per piece (including packing)	77.47 g
Weight per piece (excluding packing)	56.43 g
Customs tariff number	85364900
Country of origin	DE



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Technical data

Notes

Note on the material	
Notes on operation	Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC or FBST 500
Notes on operation	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
Assembly note	The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.
Notes on operation	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Filter to prevent interference
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

Data management status

Date of last data management	21.03.2025
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Electrical properties

Maximum power dissipation for nominal condition	0.84 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths)

Input data

Coil side

Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range	94.8 V AC 168 V AC (20 °C)
	93.5 V DC 168.3 V DC (20 °C)



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Nominal voltage (plugged-in electromechanical relay)	60 V DC
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	8.5 mA (50 Hz)
	9.5 mA (60 Hz)
Typical response time	8 ms
Typical release time	15 ms
Typical release voltage	45 V AC
Protective circuit	Bridge rectifier
	RC element
Status display	LED (yellow)

Output data

Switching

9	
Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (5 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	96 W (48 V DC)
	60 W (60 V DC)
	44 W (110 V DC)
	57 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity min.	0.12 W
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 250 V, AC15)

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 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross-section AWG	26 14



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Tightening torque	0.6 Nm 0.8 Nm
ensions	
Width	14 mm
Height	80 mm
Depth	94 mm
terial specifications	
Color	gray (RAL 7042)
rironmental and real-life conditions	
mbient conditions	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m
	CE-compliant
E Certificate	CE-compliant
E Certificate	
Certificate KCA Certificate	CE-compliant UKCA-compliant
CE Certificate UKCA Certificate	
Certificate UKCA Certificate Chipbuilding approval Certificate	UKCA-compliant
CE Certificate UKCA Certificate Chipbuilding approval Certificate	UKCA-compliant TAE0000196
Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test	UKCA-compliant
Certificate UKCA Certificate Chipbuilding approval Certificate Corrosive gas test Identification	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
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Certificate UKCA Certificate Chipbuilding approval Certificate Corrosive gas test Identification Chipbuilding data	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60
CE Certificate UKCA Certificate Chipbuilding approval Certificate Corrosive gas test Identification Chipbuilding data Temperature	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D
Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification Shipbuilding data Temperature Humidity	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D A
Certificate Shipbuilding approval Certificate Corrosive gas test Identification Shipbuilding data Temperature Humidity Vibration	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D A B/C
Certificate JKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification Shipbuilding data Temperature Humidity Vibration EMC Enclosure	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D A B/C B Required protection according to the Rules shall be provided
Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification Shipbuilding data Temperature Humidity Vibration EMC	UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60 D A B/C B Required protection according to the Rules shall be provided

Standards and regulations



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Mounting position

Air clearances and	creenage di	ctancae ha	tween the	nower circuite
All clearances and	cieepage ui	Statices be	tween the i	DOWEL CILCUITS

	· · · · · · · · · · · · · · · · · · ·				
	Standards/regulations	IEC 60947-5-1			
Мс	lounting				
	Mounting type	DIN rail mounting			
	Assembly note	in rows with zero spacing			

any

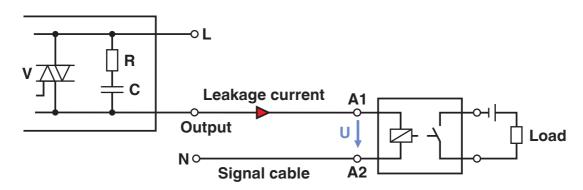


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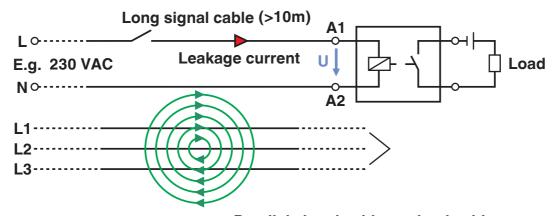
Drawings

Application drawing



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

Application drawing



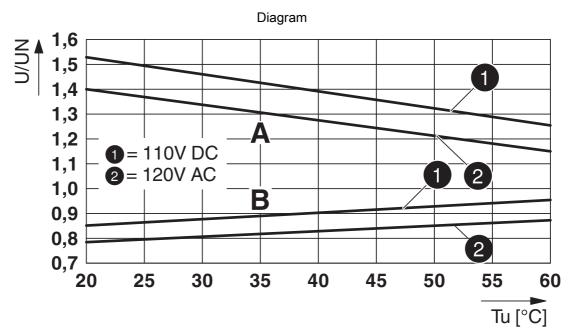
Parallel signal cables or load cables

Occurrence of interference signals Scenario 2: long signal cables



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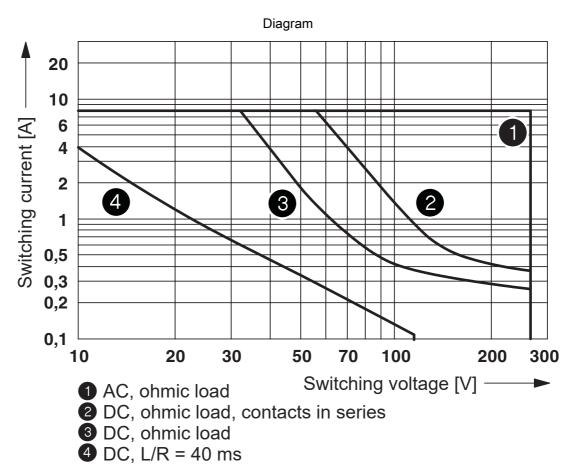
 $\label{eq:curve} Curve\ A$ Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data) $Curve\ B$

Minimum permissible operate voltage \mathbf{U}_{op} after pre-excitation (see relevant technical data)



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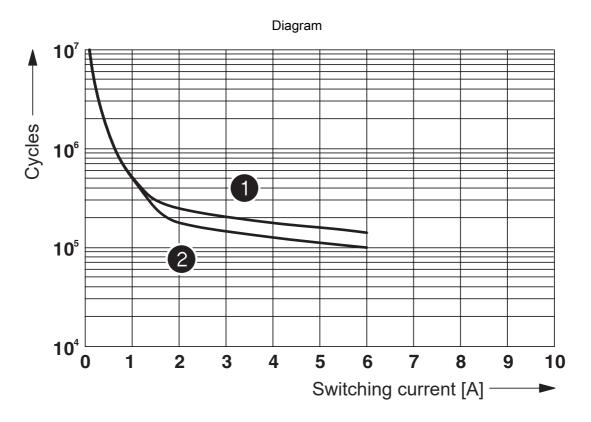


Interrupting rating



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- 250 V AC, ohmic load (DC coils)
 250 V AC, ohmic load (AC coils)

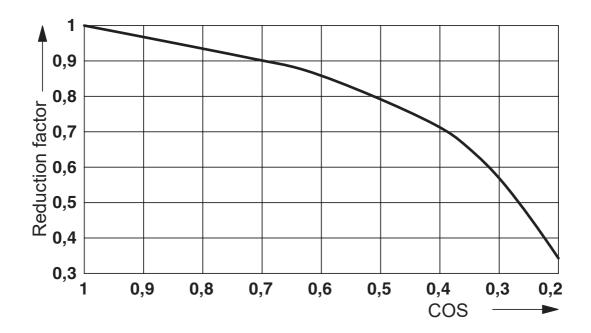
Electrical service life



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Diagram

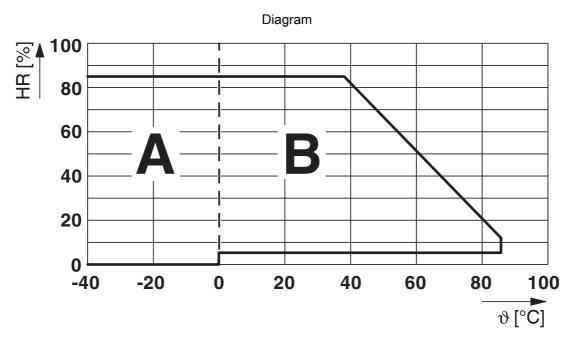


Service life reduction factor



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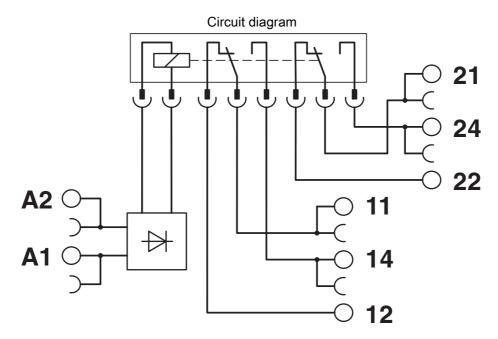
Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature \leq 25°C.





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1125985



EAC

Approval ID: RU*C-DE.*08.B.00010



DNV GL

Approval ID: TAE0000196



EAC

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



cULus Listed

Approval ID: E140324



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Classifications

ECLASS

	ECLASS-13.0	27371601	
	ECLASS-15.0	27371601	
ETIM			
	ETIM 9.0	EC001437	
UNSPSC			
	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: n/a)
SCIP	7f77ec3c-763f-4abc-aa1d-d3b806db8f66

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