

2987040

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PLC-INTERFACE for railway applications, consisting of basic terminal block with spring-cage connection and plug-in miniature relay with multi-layer gold contact, range: 0.7 x U_N to 1.25 x U_N , temperature class TX: -40°C to +70°C, 1 changeover contact, input voltage 72 V DC

Your advantages

- · Optimum relay operation thanks to wide-range electronics
- · Certified in accordance with EN 50155
- · Safe isolation between coil and contact side
- · Vibration and shock resistance in accordance with EN 50155
- Input voltage range of 0.7 to 1.25 x UN (1.4 x UN briefly)
- Temperature range: -40 °C ... + 70 °C (short-term 85 °C)

Commercial data

Item number	2987040
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	CK622B
Catalog page	Page 362 (C-7-2013)
GTIN	4046356155274
Weight per piece (including packing)	34.04 g
Weight per piece (excluding packing)	34.04 g
Customs tariff number	85364900
Country of origin	DE



2987040

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Technical data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Installation location	Attached to the vehicle body
Application	Railway applications
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U _N	72 V DC
Input voltage range	50.4 V DC 90 V DC
Input voltage range in reference to U _N	0.7 1.25
Drive and function	monostable
Typical input current at U _N	3 mA
Typical response time	4 ms
Typical release time	4 ms
Coil voltage	48 V DC
Protective circuit	Bridge rectifier; Bridge rectifier
	Freewheeling diode; Freewheeling diode
	Surge protection
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC



2987040

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	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity	1 A (24 V (DC13))
	0.2 A (110 V (DC13))
	0.1 A (220 V (DC13))
	3 A (24 V (AC15))
	3 A (120 V (AC15))
	3 A (230 V (AC 15))

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.)
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 □ V □ AC)

Connection data

Coil side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	26 14

Contact side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	26 14

Dimensions



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Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C 85 °C

Standards and regulations

Standards/regulations	EN 50155 (VDE 0115 part 200)
	IEC 60947-5-1
	EN 61373
	EN 50121

Mounting

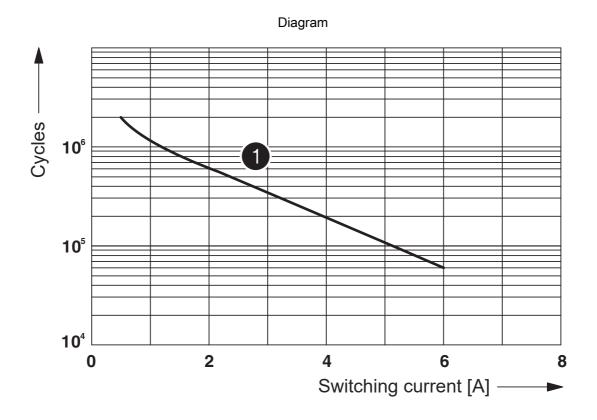
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



2987040

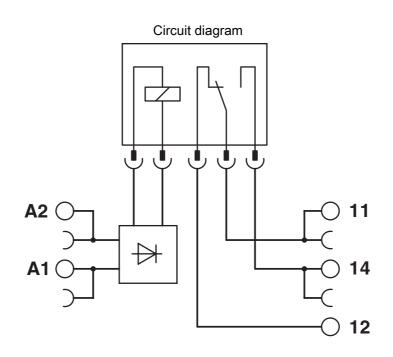
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Drawings



1 250 V AC, ohmic load

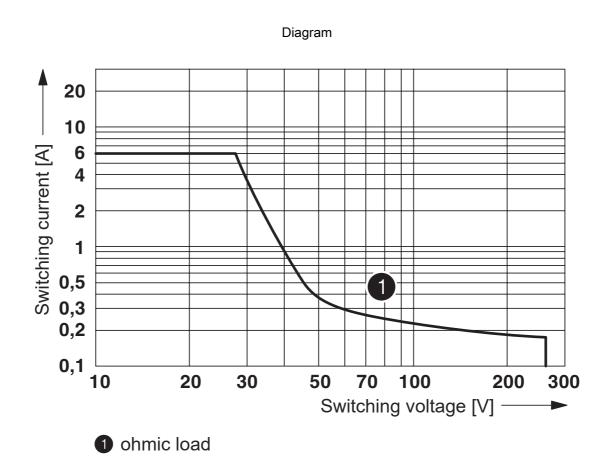
Electrical service life





2987040

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DC interrupting rating



2987040

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Classifications

ECLASS

ECLASS-11.0 27371601



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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