

PLC-HPT-24DC/230AC/10 - Solid-state relays



2905215

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PLC-INTERFACE, hybrid solid-state relay incl. bypass relay with push-in connection, for mounting on NS 35/7,5 DIN rail, input: 24 V DC, output: 24 V AC - 253 V AC/10 A

Commercial Data

Item number	2905215
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6234
Catalog Page	Page 385 (C-5-2019)
GTIN	4046356927307
Weight per Piece (including packing)	73.21 g
Weight per Piece (excluding packing)	70.06 g
Customs tariff number	85364190
Country of origin	DE

Technical Data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor

Insulation characteristics

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

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

Electrical properties

Test voltage	4 kV _{rms} (50 Hz, 1 min., winding/contact)
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Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	6 kV

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≤ 19 mA
Rated actuating voltage U_C	24 V DC
Voltage range with reference to U_C	0.8 ... 1.2
Rated actuating current I_C	6.8 mA
"0" signal switching threshold in reference to U_C	< 0.4
"1" signal switching threshold in reference to U_C	> 0.8
Typical response time	30 ms
Typical turn-off time	20 ms
Status display	Yellow LED
Protective circuit	Reverse polarity protection Surge protection
Surge voltage protection	> 33 V DC
Transmission frequency	1 Hz

Output data

Designation	AC hybrid output
Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	24 V AC ... 253 V AC (50/60 Hz)

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Limiting continuous current	10 A (see derating curve)
Min. load current	100 mA
Leakage current	< 1 mA
Surge current	250 A (tp = 20 ms, at 25°C)
Max. load value	350 A ² s (tp = 10 ms, at 25 °C)
Surge voltage protection	> 275 V
Output circuit	2-conductor, floating
Protective circuit	Varistor

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

Approvals

Corrosive gas test

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

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60947-5-1
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Mounting

Mounting type	DIN rail mounting
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Assembly instructions	See derating curve
Mounting position	any

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in