PHŒNIX CONTACT

Input/output module - IOA REL 120V DI/1.0A/EX - 2910157

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Relay module for VIP I/O-Marshalling base elements. For the electrically isolated coupling of 120 V AC field devices to digital inputs. Integrated fuse and fuse failure indication.

Product Description

Relay module for digital input signals for the electrically isolated coupling of 120 V AC field devices.
The control path is protected by an integrated replaceable 1 A fuse.
If the fuse fails, this is indicated by an LED.
The module is installed on a corresponding VIP I/O-Marshalling base element by means of plug-in contact.
Installation in zone 2, "ec" type of protection is permitted.

Your advantages

☑ Active relay coil indication

☑ Two-stage progressive release allowing for voltage checks with field-powered devices

☑ Channel for marking accessories

☑ Replaceable TE5-style fusing

☑ 120 V internal marshalling option for connected field device

COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 447704
GTIN	4055626447704
Weight per Piece (excluding packing)	22.220 g
Custom tariff number	85364900
Country of origin	United States
Sales Key	CK8221

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

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Dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	0 % ... 95 % (non-condensing)
Degree of protection	IP20

Coil side

Nominal input voltage U_N	120 V AC
Input voltage range in reference to U_N	0.9 ... 1.1
Typical input current at U_N	3 mA
Typical response time	5 ms
Typical release time	4 ms
Protective circuit	Bridge rectifier
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	24 V DC
Min. switching current	1 mA (at 24 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

Connection data

Connection name	Control circuits
Connection method	Pin strip

General

Operating mode	100% operating factor
Flammability rating according to UL 94	V0
Mechanical service life	$2x\ 10^7$ cycles
Mounting position	any
Assembly instructions	Plugs into VIP/...BASE...

Standards and Regulations

Standards/regulations	IEC 60664
	DIN EN 50178
Pollution degree	2

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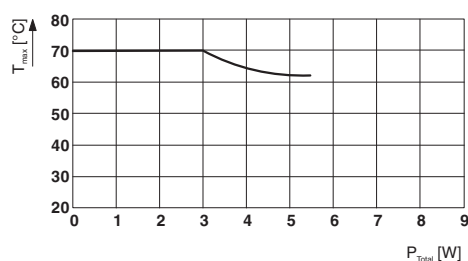
Technical data

Standards and Regulations

Overvoltage category	II
Conformance	ANSI/ISA 60079-0; 60079-15
	ANSI/IEC 60529
	FM 3600; 3611; 3810
ATEX	Sira 17ATEX4293X; II 3G Ex nA nC IIC T4 Gc
IECEx	IECEx SIR 17.0078X; Ex nA nC IIC T4 Gc
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, IIC T4
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, AEx nA nC IIC T4 Gc Class I, Div. 2, Groups A, B, C, D T4 Ex nA nC IIC T4 Gc

Environmental Product Compliance

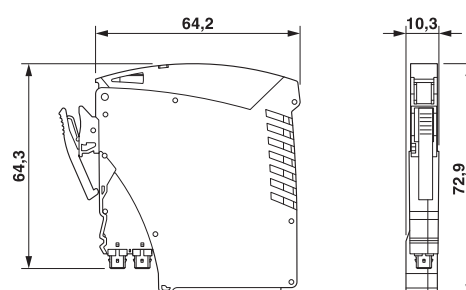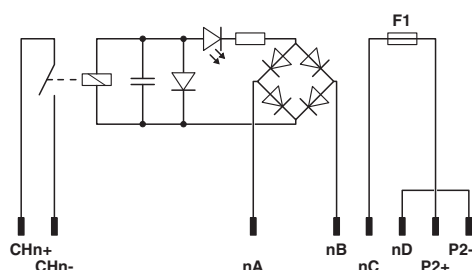| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Diagram

Derating curve

Dimensional drawing

Circuit diagram

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Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27141152
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

Accessories

Accessories

Marker pen

Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

Marker for terminal blocks - UC-TM 6 - 0818085

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

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Accessories

Zack marker strip - ZB 5,08:UNBEDRUCKT - 0809793

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 5.08 mm, lettering field size: 4.98 x 10.5 mm, Number of individual labels: 10

Necessary add-on products

Base module - VIP/S/MC/BASE 1-8/L/EX - 2906596

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 1-8.

Base module - VIP/S/MC/BASE 9-16/L/EX - 2906630

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 9-16.

Base module - VIP/S/MC/BASE 17-24/L/EX - 2907024

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 17-24.

Base module - VIP/S/MC/BASE 25-32/L/EX - 2907025

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 25-32.

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Accessories

Base module - VIP/S/MC/BASE 1-8/L/C/EX - 2907186

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 1-8 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 9-16/L/C/EX - 2907187

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 9-16 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 17-24/L/C/EX - 2907209

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 17-24 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 25-32/L/C/EX - 2907210

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 25-32 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/D25M/BASE 1-8/L/C/EX - 2906595

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module with the D-SUB 25 connector is pin compatable to the Foxboro I/A series DCS.

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Accessories

Base module - VIP/MSTB/D50M/BASE/16CH/CX/EX - 2908788

VIP base module with input/output accessories (IOA) provide universal channel configuration. This module with the D-SUB 50 connector is pin compatable to the Tricon CX series DCS.

Spare parts

Fuse set - FUSE/TE5/1A/F-10PCS - 2905277

Plug-in fuse (TE5$^®$); nominal current: 1 A; tripping behavior: fast-blow (F)