PHŒNIX CONTACT

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Relay module for VIP I/O-Marshalling base elements. For switching 230 V AC loads up to max. 3 A. Integrated fuse and fuse failure indication. N/C contact can be used.

Product Description

Relay module for digital output signals for switching loads with max. 3 A nominal current and a maximum voltage of 230 V AC.
The switch contact is protected by an integrated replaceable 3 A fuse.
If the fuse fails, this is indicated by an LED.
One N/C contact is available on the field side.
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

☑ Output blown fuse indication

☑ Active relay coil indication

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

☑ Channel for marking accessories

☑ Replaceable TE5-style fusing

☑ 230 V internal marshalling option for connected field device

RoHS **D W H COMPLETE line**

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 495996
GTIN	4055626495996
Weight per Piece (excluding packing)	31.600 g
Custom tariff number	85364900
Country of origin	United States
Sales Key	CK8222

Technical data

Dimensions

Width	10.3 mm

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

Technical data

Dimensions

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
Degree of protection	IP20

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Typical input current at U_N	13.5 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection Polarity protection diode
	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/C contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	230 V AC
Min. switching current	10 mA (at 12 V)
Maximum inrush current	on request
Limiting continuous current	3 A (fuse limited)
Interrupting rating (ohmic load) max.	23 W (at 110 V DC)
	690 VA (230 V AC)

Connection data

Connection name	Control circuits
Connection method	Pin strip
Number of connections	1
Number of positions	11

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

PHŒNIX CONTACT

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

Technical data

Standards and Regulations

	DIN EN 50178
IECEx	Ex nA nC IIC T4 Gc

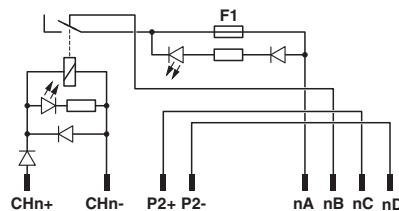### Environmental Product Compliance

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
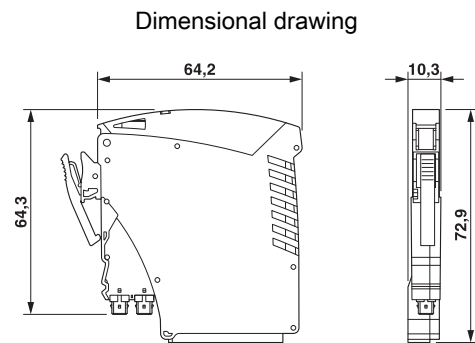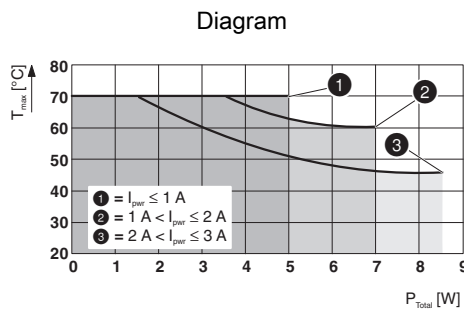
Circuit diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

Classifications

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

UNSPSC

UNSPSC 6.01	30211824
UNSPSC 7.0901	39121421
UNSPSC 11	39121421
UNSPSC 12.01	39121421
UNSPSC 13.2	39121432
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

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

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

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.

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

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.

PHŒNIX CONTACT

Input/output module - IOA REL 230V DO/BFI/NC/3.0A/EX - 2910422

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/TE5/3.15A/F-10PCS - 2906442

Plug-in fuse (TE5®); nominal current: 3.15 A; tripping behavior: fast-blow (F)

http://www.phoenixcontact.com