

https://www.phoenixcontact.com/us/products/2941701



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 documentation. Our general terms of use for downloads are valid.



Electronic load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: 110-440 V AC/3 x 9 A

Your advantages

- · High switching frequency
- Noise and wear-free switching up to 500 V AC/9 A
- · Protective circuit in input and output
- · Status display

Commercial data

Item number	2941701
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C472
Product key	CK7212
Catalog page	Page 194 (IF-2011)
GTIN	4017918101046
Weight per piece (including packing)	745.4 g
Weight per piece (excluding packing)	745.4 g
Customs tariff number	85364900
Country of origin	DE



https://www.phoenixcontact.com/us/products/2941701



Technical data

Product properties

Product type	Solid-state contactor
Operating mode	100% operating factor
Data management status	
Article revision	11
Insulation characteristics: Air clearances and creepage distances between the power circuits	
Insulation	Basic insulation

Electrical properties

Number of phases	3
Mains type	3-phase
Test voltage (Input/output)	2.5 kV (50 Hz, 60 s)
Switching frequency	max. 10 Hz (at cos φ = 0.5)

Input data

Control

Input name	Control input right/left
Rated actuating voltage $U_{\mathbb{C}}$	24 V DC
Triggering voltage range	19.2 V DC 28.8 V DC
Voltage range with reference to U_{C}	0.8 1.2
	0.8 1.2
Rated actuating current I _C	16 mA
Reaction time in normal load operation	20 ms
	20 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Status display	LED (yellow)
Transmission frequency	1 Hz (at $\cos \varphi = 0.5$)

Output data

AC output

Rated operating voltage U _e	400 V AC
Operating voltage range	110 V AC 440 V AC
Peak offstate voltage	800 V
Mains frequency	50 Hz
	60 Hz
Load current range	150 mA 9 A (see to derating)
Leakage current	typ. 7 mA
Residual voltage	typ. 1.5 V



https://www.phoenixcontact.com/us/products/2941701



Surge current	230 A (tp = 10 ms, at 25 °C)
Protective circuit	RC element; RC element
	Surge protection
Surge voltage protection	> 750 V

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 6 mm²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section AWG	24 10

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 10

Dimensions

Width	62 mm
Height	84 mm
Depth	110 mm

Material specifications

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 70 °C

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 50178
EMC regulations	
Standards/regulations	EN 61000-6-2
	FN 61000-6-4

2941701

https://www.phoenixcontact.com/us/products/2941701



Mounting

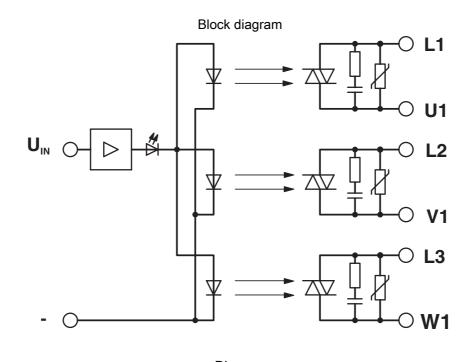
Mounting type	DIN rail mounting
Assembly note	Can be aligned with > 20 mm spacing
Mounting position	Vertical (horizontal DIN rail)

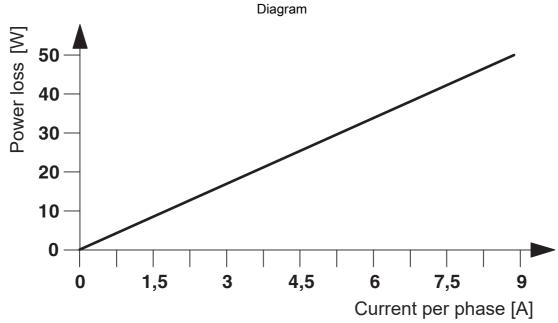
2941701

https://www.phoenixcontact.com/us/products/2941701



Drawings

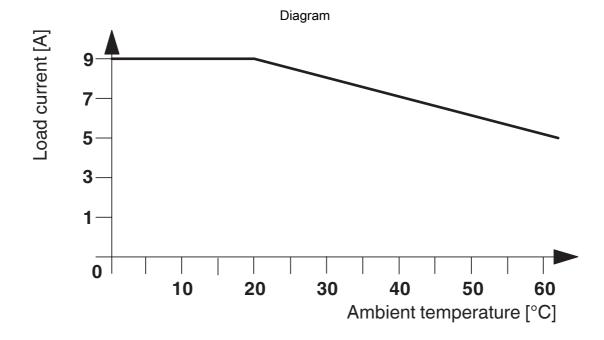






https://www.phoenixcontact.com/us/products/2941701







https://www.phoenixcontact.com/us/products/2941701



Classifications

_	\sim	$\Lambda \cap \cap$
		A.7.7

	ECLASS-11.0	27371014
ΕΊ	TIM	
	ETIM 9.0	EC002055
1 11	NSPSC	
ONO! CO		
	UNSPSC 21 0	39122333

2941701

https://www.phoenixcontact.com/us/products/2941701



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: 7439-92-1)
SCIP	f8f3fb46-97cd-45d2-b029-25474a8df6bc

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com