

2964186

https://www.phoenixcontact.com/us/products/2964186

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 reversing load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: $110-550 \text{ V AC/3} \times 9 \text{ A}$

Your advantages

- · High switching frequency
- Noise and wear-free switching up to 500 V AC/9 A
- · Protective circuit in input and output
- · LEDs for forward and reverse running, operating voltage, and impermissible control

Commercial data

Item number	2964186
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C472
Product key	CK7222
Catalog page	Page 190 (IF-2011)
GTIN	4017918099398
Weight per piece (including packing)	778.5 g
Weight per piece (excluding packing)	662.22 g
Customs tariff number	85364900
Country of origin	DE



https://www.phoenixcontact.com/us/products/2964186



Technical data

Notes

Utilization restriction

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

Product properties

Product type	Solid-state contactor
Operating mode	100% operating factor

Electrical properties

Number of phases	3
Maximum power dissipation for nominal condition	13.5 W
Mains type	3-phase
Test voltage (Input/output)	2.5 kV (50 Hz, 60 s)
Reversing frequency	≤ 10 Hz (At cos φ = 0.5)

Input data

Control

Input name	Control input right/left
Quiescent current	40 mA
Rated actuating voltage U _C	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Voltage range with reference to U _C	0.8 1.25
	0.8 1.25
Rated actuating current I _C	7.5 mA
Reaction time in normal load operation	50 ms
	50 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Operating voltage display	Green LED
Error indication	Red LED
Status display	Yellow LED
Switch-over frequency	< 10 Hz (At cos φ > 0.5)
Switchover time R _L /L _L (turn-on time)	20 ms

Output data

AC output

· · · · · · · · · · · · · · · · · · ·	
Rated operating voltage $\mathrm{U_e}$	500 V AC
Operating voltage range	110 V AC 550 V AC
Peak offstate voltage	1200 V



2964186

https://www.phoenixcontact.com/us/products/2964186

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
Surge current	230 A (tp = 10 ms, at 25 °C)
Max. load value	265 A ² s
Protective circuit	RC element; RC element
	Surge protection
Surge voltage protection	> 910 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 mm² 4 mm²
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

Color	green (RAL 6021)
-------	------------------

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



2964186

https://www.phoenixcontact.com/us/products/2964186

Standards/regulations	EN 50178
EMC regulations	
Standards/regulations	EN 61000-6-2
	EN 61000-6-4
Mounting	
Mounting type	DIN rail mounting
Assembly instructions	Can be aligned with > 20 mm spacing
Mounting position	Vertical (horizontal DIN rail)

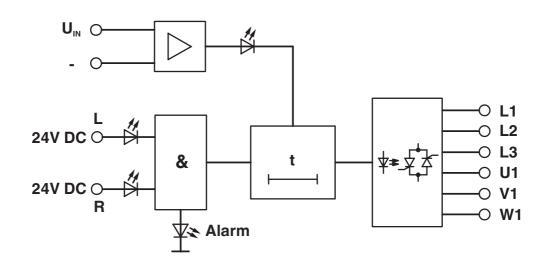


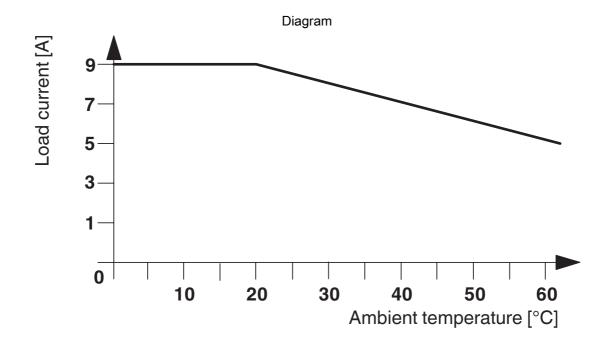
https://www.phoenixcontact.com/us/products/2964186



Drawings

Block diagram

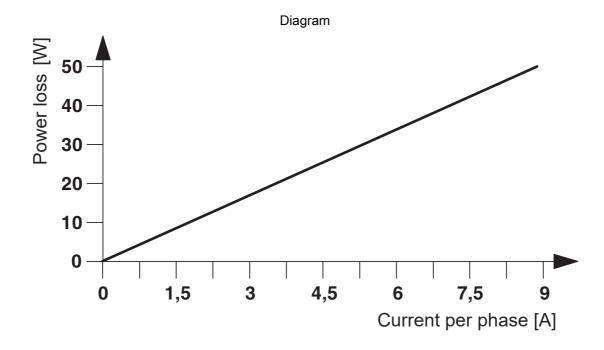






2964186

https://www.phoenixcontact.com/us/products/2964186





2964186

https://www.phoenixcontact.com/us/products/2964186

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2964186



EAC

Approval ID: TR_TS_D_00573_c



2964186

https://www.phoenixcontact.com/us/products/2964186

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27371003
ECLASS-12.0	27371003
ECLASS-13.0	27371003
ETIM	
ETIM 9.0	EC000066
UNSPSC	

39122300



2964186

https://www.phoenixcontact.com/us/products/2964186

Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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