

ELR W1/ 2-24DC - Reversing load relay



2963598

<https://www.phoenixcontact.com/us/products/2963598>

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 driving DC motors, with light indicator and protection circuit, output: 10-30 V DC/2 A

Commercial data

Item number	2963598
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C476
Product key	CK7621
Catalog page	Page 46 (C-5-2019)
GTIN	4017918943592
Weight per piece (including packing)	113.8 g
Weight per piece (excluding packing)	107 g
Customs tariff number	85371098
Country of origin	DE

ELR W1/ 2-24DC - Reversing load relay



2963598

<https://www.phoenixcontact.com/us/products/2963598>

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
Product family	CONTACTRON
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
------------	------------------

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Number of phases	1
Test voltage (Input/output)	2.5 kV _{rms} (50 Hz, 60 s)

Supply

Input name	Device supply
Rated control circuit supply voltage U_S	24 V DC
Control supply voltage range	10 V DC ... 30 V DC
Rated control supply current I_S	7 mA
Protective circuit	Surge protection

Input data

Control

Input name	Control input right/left
Current consumption	3 mA
Rated actuating voltage U_C	24 V DC
Triggering voltage range	19.2 V DC ... 28.8 V DC
Rated actuating current I_C	3 mA
Typical response time	200 μ s
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Switchover time R_L/L_L (turn-on time)	80 ms

ELR W1/ 2-24DC - Reversing load relay



2963598

<https://www.phoenixcontact.com/us/products/2963598>

Output data

DC output

Rated operating voltage U_e	24 V DC
Operating voltage range	10 V DC ... 30 V DC
Rated operating current (Load output)	2 A
Load current	2 A (Mounted in rows with zero spacing)
Quiescent current	approx. 7 mA (When switched off)
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Current limitation at short-circuits	15 A

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm
	5 lb _F -in. ... 7 lb _F -in.

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm
	5 lb _F -in. ... 7 lb _F -in.

Signaling

Status display	Yellow LED
Operating voltage display	Green LED

Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

ELR W1/ 2-24DC - Reversing load relay



2963598

<https://www.phoenixcontact.com/us/products/2963598>

Color	gray (RAL 7042)
-------	-----------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

Approvals

UKCA

Certificate	UKCA-compliant
-------------	----------------

UL approval

Certificate	NLDX.E228652
-------------	--------------

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 50178
-----------------------	----------

Mounting

Mounting type	DIN rail mounting
Assembly instructions	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)

ELR W1/ 2-24DC - Reversing load relay



2963598

<https://www.phoenixcontact.com/us/products/2963598>

Classifications

ECLASS

ECLASS-11.0	27371018
ECLASS-13.0	27371018
ECLASS-12.0	27371018

ETIM

ETIM 9.0	EC002552
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

ELR W1/ 2-24DC - Reversing load relay



2963598
<https://www.phoenixcontact.com/us/products/2963598>

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