

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

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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

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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
oduct 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 dis Insulation	stances between the power circuits Basic insulation
Overvoltage category	
Pollution degree	2
ectrical 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 µs
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Switchover time R_L/L_L (turn-on time)	80 ms



2963598

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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



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	Color	gray (RAL 7042)	
En	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	
Ар	Approvals		
UKCA			
	Certificate	UKCA-compliant	
ι	JL 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)	

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