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	CK7
Product Key	CK7621
Catalog Page	Page 46 (C-5-2019)
GTIN	4017918943592
Weight per Piece (including packing)	111.2 g
Weight per Piece (excluding packing)	107 g
Customs tariff number	85371098
Country of origin	DE

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Technical Data

Notes

Itilization 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	stances between the power circuits Basic insulation
Overvoltage category Pollution degree	2
rollation degree	2
ectrical properties	
Number of phases	1
Test voltage (Input/output)	2.5 kV _{rms} (50 Hz, 1 min., input/output)
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

Input data

Control		
Input name	Control input right/left	
Current consumption	3 mA	
Rated actuating voltage $U_{\rm C}$	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	



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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

Environmental and real-life conditions



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Mounting position

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	

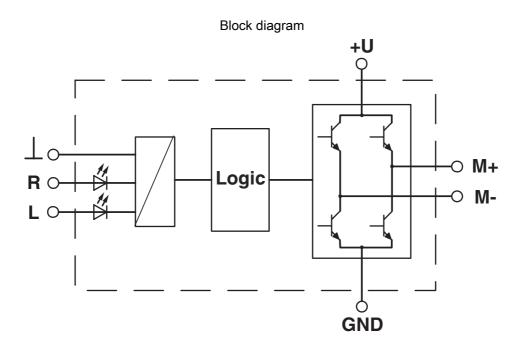
vertical (horizontal DIN rail, motor output below)



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Drawings

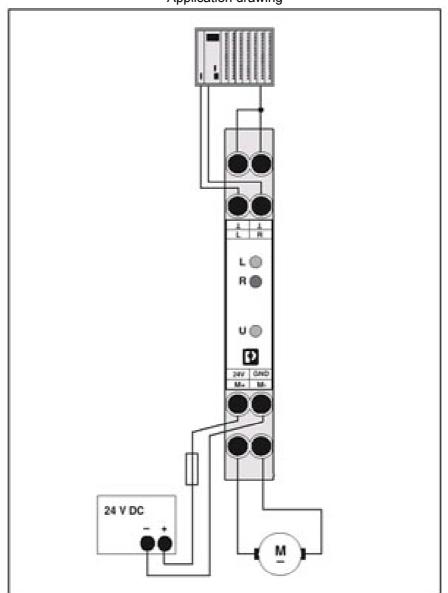






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Application drawing

Example application

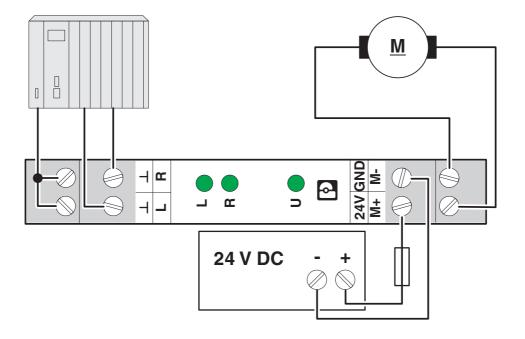




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Connection diagram





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Approvals

EAC Approval ID: TR_TS_D_00573_c



UL Listed Approval ID: FILE E 228652

CUL Listed
 Approval ID: FILE E 228652



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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002055	
UN	UNSPSC		
	UNSPSC 21.0	39122300	

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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"

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