

ELR W2+1- 24DC/500AC-37 - Solid-state reversing contactor



2297374

<https://www.phoenixcontact.com/us/products/2297374>

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Three-phase solid-state reversing contactor with 24 V DC input, 37 A output current, zero voltage switch, optionally with thermal fuse

Your advantages

- Optional thermal fuse
- Stable and short switching times
- Long service life
- Noise and wear-free switching
- Integrated protection circuit
- High switching frequency
- Integrated locking and load wiring

Commercial data

Item number	2297374
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C472
Product key	DK6841
GTIN	4046356175739
Weight per piece (including packing)	1,834 g
Weight per piece (excluding packing)	1,791 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Product properties

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

Electrical properties

Number of phases	3
Switching frequency	max. 5 Hz
Test voltage (Input/output)	5 kV _{rms} (50 Hz, 60 s)
Switching frequency	max. 5 Hz
Reversing frequency	≤ 10 Hz

Insulation characteristics

Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Insulation characteristics between the control input voltage to the main circuit	Basic insulation

Input data

Control

Input name	Control input right/left
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	12.7 mA
Switching threshold	9.6 V ("0" signal) 19.2 V ("1" signal)
Protective circuit	Reverse polarity protection; Suppressor diode Surge protection
Error indication	Red LED
Status display	LED (yellow)

Output data

AC output

Rated operating voltage U_e	500 V AC
Operating voltage range	48 V AC ... 575 V AC
Rated operating current at AC-51	37 A
Rated operating current at AC-53a	25 A
Peak offstate voltage	1200 V

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2297374

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Mains frequency	40 Hz ... 100 Hz
Load current range	200 mA ... 37 A (see to derating)
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	1300 A (t = 10 ms)
Max. load value	9000 A ² s
Protective circuit	RCV circuit
Surge voltage protection	> 575 V AC

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12
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	M4
Conductor cross-section rigid	0.5 mm ² ... 16 mm ²
Conductor cross-section flexible	0.5 mm ² ... 16 mm ²
Conductor cross-section AWG	20 ... 6
Tightening torque	15 lb _F -in.

Signaling

Status display	LED (yellow)
Error indication	Red LED

Dimensions

Width	147.5 mm
Height	99 mm
Depth	114.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

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2297374

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Approvals

UL approval

Certificate	NMFT.E323771
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UL data

SCCR	5 kA (50 A RK5 (standard fault) fuse)
	200 kA (50 A RK5 (standard fault) fuse)

Standards and regulations

Standards/regulations

Standards/regulations	DIN EN 50178
	EN 60947

Mounting

Mounting type	DIN rail mounting
Assembly note	can be aligned with spacing = 40 mm
Mounting position	Vertical (horizontal DIN rail)

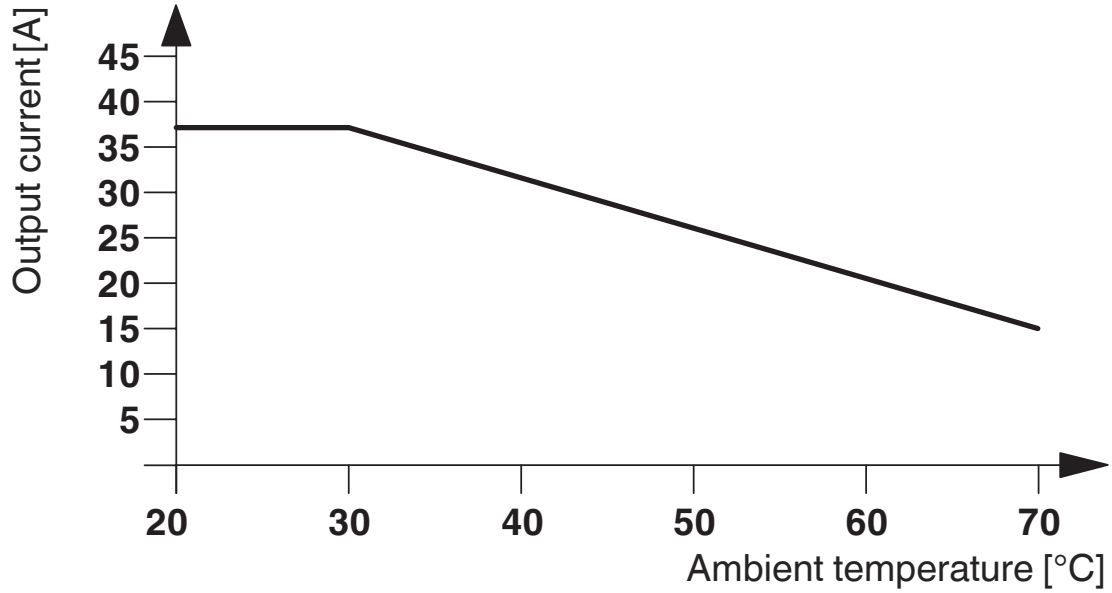
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2297374

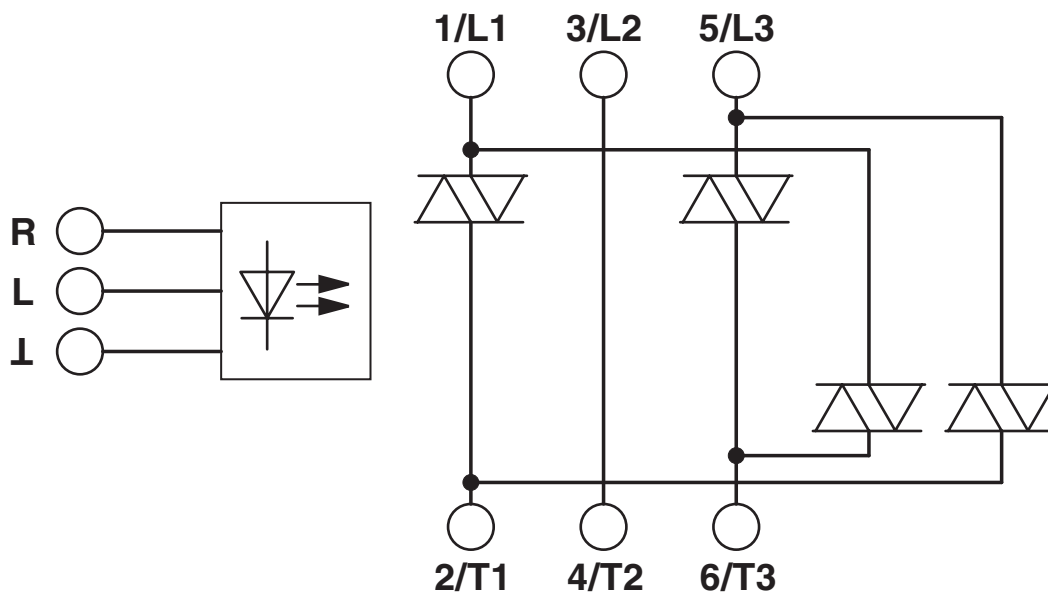
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Drawings

Diagram



Block diagram



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Approvals

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EAC

Approval ID: RU*C-DE.*08.B.00520*



UL Listed

Approval ID: FILE E 323771



cUL Listed

Approval ID: FILE E 323771

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Classifications

ECLASS

ECLASS-13.0	27371003
ECLASS-15.0	27371003

ETIM

ETIM 10.0	EC000066
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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.)	Lead(CAS: 7439-92-1)
SCIP	2d13b841-e8c3-4fc7-ac3f-3f3f7842c622

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