

Solid-state reversing contactor - ELR W3-230AC/500AC-16 - 2297345

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Three-phase solid-state reversing contactor with 230 V AC input, 16 A output current, zero voltage switch, optionally with thermal fuse

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 175708
GTIN	4046356175708
Weight per Piece (excluding packing)	444.440 g
Custom tariff number	85364900
Country of origin	Germany

Technical data

Input data

Input name	Control input right/left
Mains frequency	50 Hz
	60 Hz

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Technical data

Input data

Rated actuating voltage U_C	230 V AC
Triggering voltage range	92 V AC ... 253 V AC
Voltage range with reference to U_C	0.4 ... 1.1
Rated actuating current I_C	11.2 mA
Switching threshold	48 V AC ("0" signal)
	96 V AC ("1" signal)
Protective circuit	Surge protection Varistor
Status display	Yellow LED
Indication	Red LED

Output data load output

Output name	AC output
Rated operating voltage U_e	500 V AC
Operating voltage range	48 V AC ... 575 V AC
Load current range	100 mA ... 16 A (see to derating)
Rated operating current at AC-51	16 A
Rated operating current at AC-53a	12 A
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	300 A (t = 10 ms)
Type of protection	RCV circuit

Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm ² ... 16 mm ²
Conductor cross section flexible	0.5 mm ² ... 16 mm ²
Conductor cross section AWG	20 ... 6

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General

Test voltage input/output	5 kV _{rms}
Switching frequency	max. 1 Hz
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 40 mm
Operating mode	100% operating factor
Reversing frequency	≤ 2 Hz

Dimensions

Width	147.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Standards and Regulations

Designation	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947

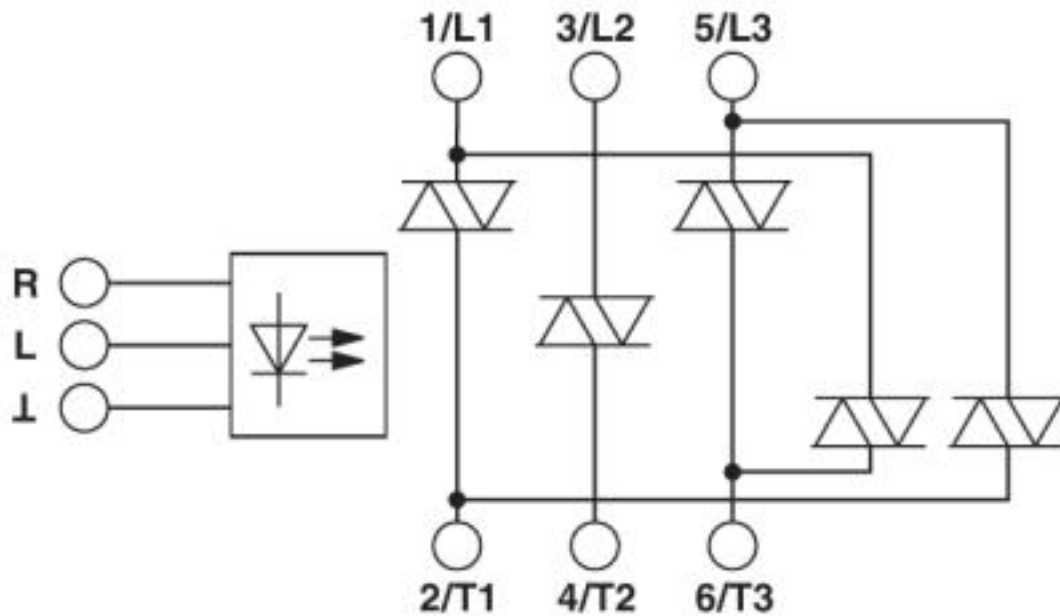
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

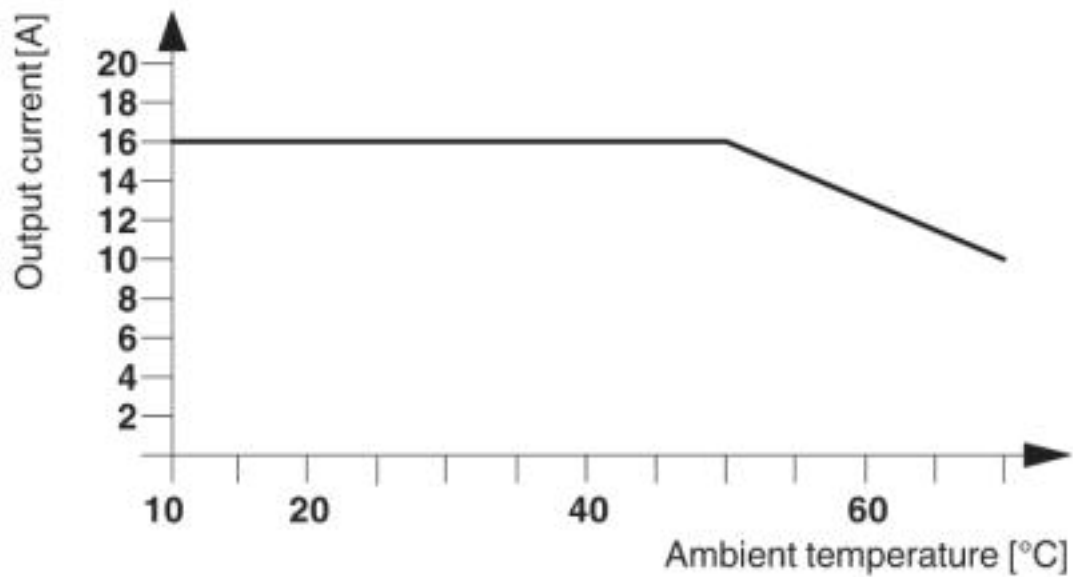
Drawings

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Block diagram



Diagram



Classifications

eCl@ss

eCl@ss 5.1

27371000

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Classifications

eCl@ss

eCl@ss 6.0	27371000
eCl@ss 7.0	27371014
eCl@ss 8.0	27371014
eCl@ss 9.0	27371014

ETIM

ETIM 4.0	EC002055
ETIM 5.0	EC002055
ETIM 6.0	EC002055
ETIM 7.0	EC002055

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121529