

Solid-state contactor - ELR 2+1-230AC/500AC-37 - 2297280

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Three-phase solid-state contactor with 230 V AC input, 37 A output current, zero voltage switch, optionally with thermal fuse

The figure shows version: ELR 3-230AC/500AC-16

Product Features

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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1800.0 g
Custom tariff number	85364900
Country of origin	Germany

Technical data

Input data

Input name	Device supply
Mains frequency	50 Hz
	60 Hz
Protective circuit	Surge protection Varistor
Status display	Yellow LED
Indication	Red LED

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Technical data

Input data

Input name	Control input right/left
Rated actuating voltage U_c	230 V AC
Voltage range with reference to U_c	0.4 ... 1.1
Rated actuating current I_c	12.5 mA
Switching threshold	48 V AC ("0" signal)
	96 V AC ("1" signal)

Output data load output

Rated operating voltage U_e	500 V AC
Operating voltage range	48 V AC ... 575 V AC
Load current range	200 mA ... 37 A (see to derating)
Rated operating current at AC-51	37 A
Rated operating current at AC-53a	25 A
Leakage current	6 mA
Residual voltage	< 1.5 V
Surge current	1300 A (t = 10 ms)
Protective circuit	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

General

Test voltage input/output	5 kV _{rms}
Switching frequency	≤ 1 Hz

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Technical data

General

Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with spacing = 40 mm
Operating mode	100% operating factor
Designation	Standards/regulations
Standards/regulations	DIN EN 50178
	EN 60947

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
Degree of protection	IP20

UL data

SCCR	5 kA (50 A RK5 (standard fault) fuse)
FLA	16 A (at 500 V, AC Resistance)
	16 A (at 500 V, AC General USE)
	16 A (at 500 V, AC Resistance Air Heating)

Standards and Regulations

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

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

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Classifications

ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000066
ETIM 5.0	EC002055

UNSPSC

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

Approvals

Approvals

Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

UL Listed 

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Approvals

cUL Listed 

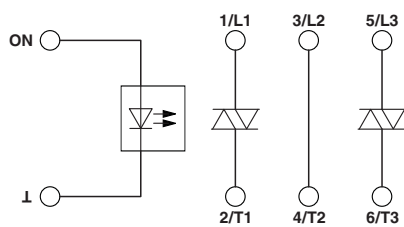
EAC

EAC

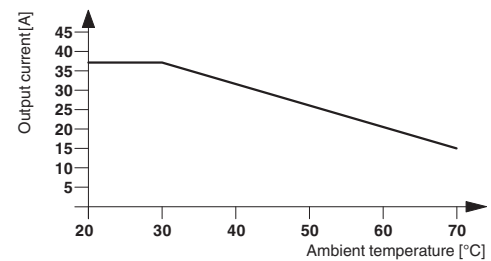
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Drawings

Block diagram



Diagram



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