

# Solid-state contactor - ELR 1-230AC/600AC-30 - 2297167

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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 30 A, zero voltage switch

## Product Features

- High switching frequency
- Wear and bounce-free
- 24 V DC and 230 V AC input voltage versions



## Key commercial data

<b>package_quantity</b>	1
<b>GTIN</b>	4046356131995

## Technical data

### Dimensions

<b>Width</b>	22.5 mm
<b>Height</b>	103 mm
<b>Depth</b>	103 mm

### Ambient conditions

<b>Ambient temperature (operation)</b>	-30 °C ... 70 °C
<b>Ambient temperature (storage/transport)</b>	-30 °C ... 70 °C

### Input data

<b>Input name</b>	Device supply
<b>Input voltage range</b>	24 V AC ... 275 V AC
<b>Typical input current at U<sub>N</sub></b>	approx. 17 mA
<b>Switching threshold "0" signal, voltage</b>	≤ 6 V AC
<b>Switching threshold "1" signal voltage</b>	≥ 22 V AC
<b>Transmission frequency</b>	6 Hz
<b>Operating voltage display</b>	Green LED

### Output data

<b>Nominal output voltage range</b>	42 V AC ... 660 V AC (45/65 Hz)
<b>Periodic peak reverse voltage</b>	1200 V

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## Technical data

### Output data

Mains frequency	45 Hz
Mains frequency	65 Hz
Load current	30 A (see derating curve)
Rated operating current at AC-51	30 A
Rated operating current at AC-53a	15 A
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	400 A (t = 10 ms)
Max. load value	1800 A <sup>2</sup> s
Type of protection	RCV circuit
Protective circuit/component	RCV circuit

### General

Test voltage input/output	4 kV <sub>rms</sub>
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing
Designation	Air and creepage distances between the power circuits
Standards/regulations	EN 61000-4-2
Standards/regulations	EN 61000-4-3
Standards/regulations	EN 61000-4-4
Standards/regulations	EN 61000-4-5
Standards/regulations	EN 61000-4-6
Standards/regulations	EN 55011
Standards/regulations	Basic insulation
Rated surge voltage / insulation	Basic insulation

## 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

### ETIM

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

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## classifications

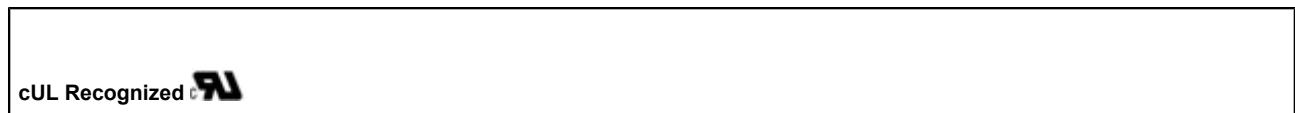
### UNSPSC

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

## approvals

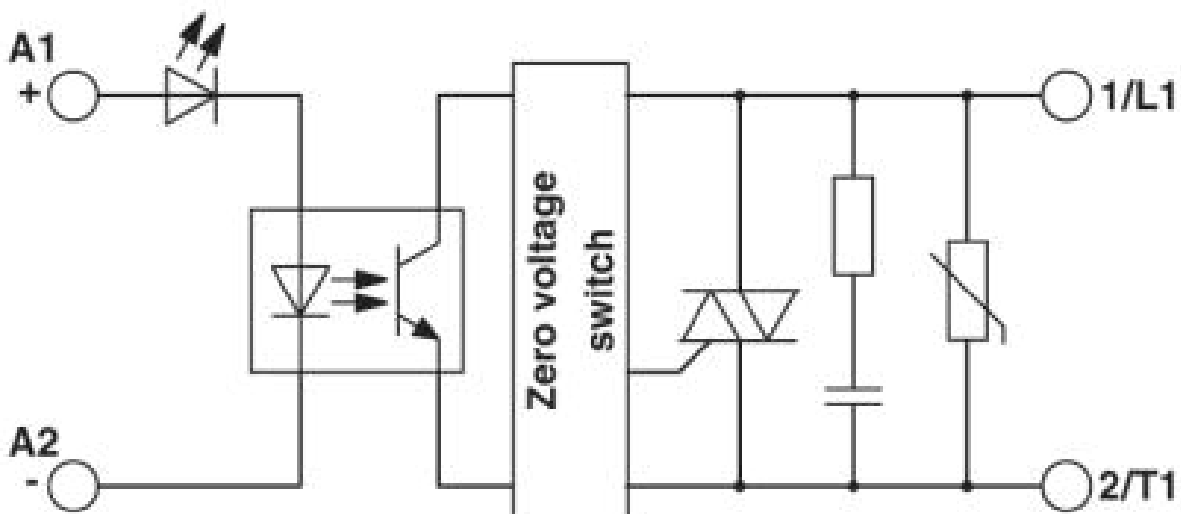
UL Recognized / cUL Recognized / cULus Recognized /

### Approval details



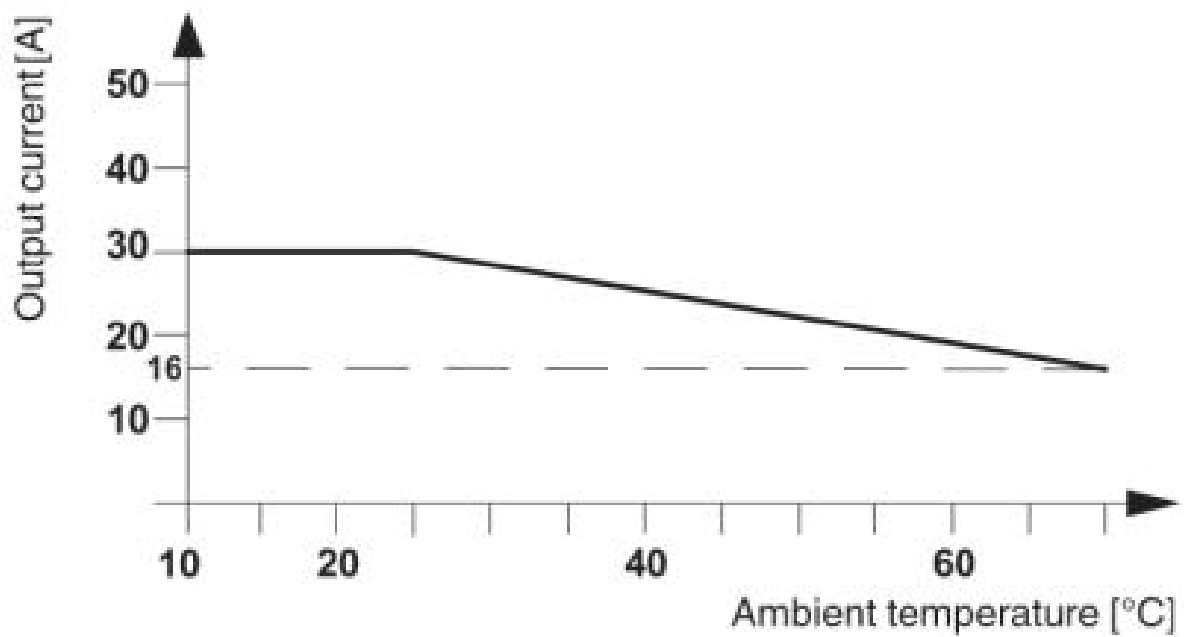
## Drawings

### Block diagram



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Diagram



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