

# Solid-state contactor - ELR 1- 24DC/600AC-30 - 2297154

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Single-phase solid-state contactor, input voltage: 24 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>	4046356132039

## 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>	4 V DC ... 32 V DC
<b>Typical input current at U<sub>N</sub></b>	approx. 12 mA
<b>Switching threshold "0" signal, voltage</b>	≤ 1 V DC
<b>Switching threshold "1" signal voltage</b>	≥ 4 V DC
<b>Transmission frequency</b>	25 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

# Solid-state contactor - ELR 1- 24DC/600AC-30 - 2297154

## 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

# Solid-state contactor - ELR 1- 24DC/600AC-30 - 2297154

## classifications

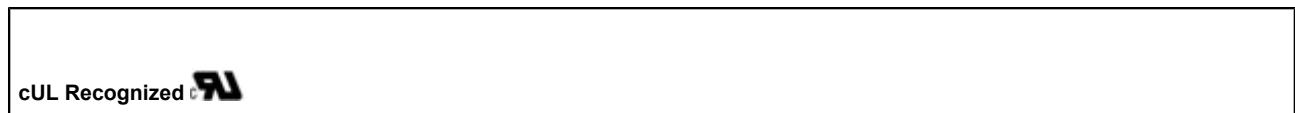
### UNSPSC

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

## approvals

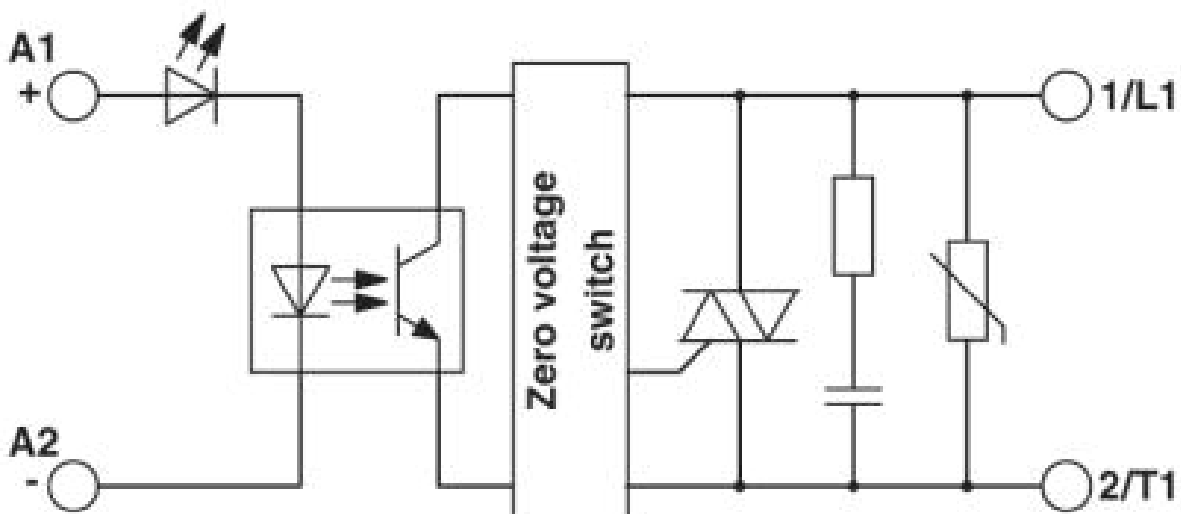
UL Recognized / cUL Recognized / cULus Recognized /

### Approval details



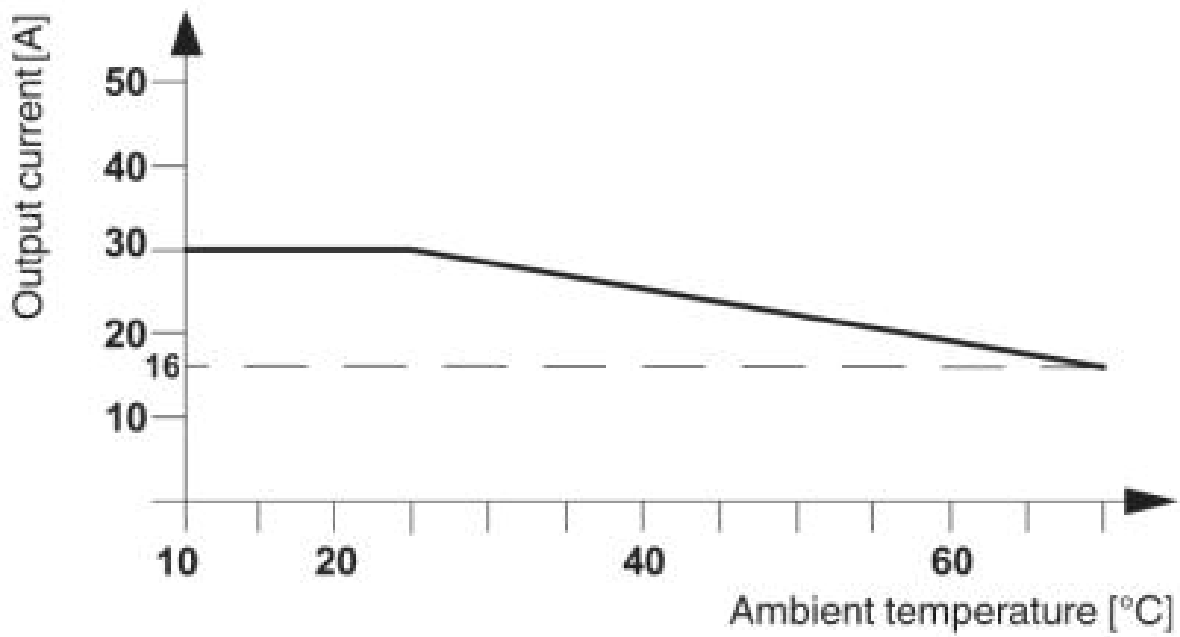
## Drawings

### Block diagram



## Solid-state contactor - ELR 1- 24DC/600AC-30 - 2297154

Diagram



© Phoenix Contact 2014 - all rights reserved  
<http://www.phoenixcontact.com>