

## 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

Packing unit	1 pc
Weight per Piece (excluding packing)	261.1 GRM
Custom tariff number	85362010
Country of origin	Malta

### Technical data

#### Dimensions

Width	22.5 mm
Height	103 mm
Depth	103 mm

#### Ambient conditions

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

#### Input data

Input name	Device supply
Input voltage range	24 V AC ... 275 V AC
Typical input current at $U_N$	approx. 17 mA

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## Technical data

### Input data

Switching threshold "0" signal, voltage	≤ 6 V AC
Switching threshold "1" signal voltage	≥ 22 V AC
Transmission frequency	6 Hz
Operating voltage display	Green LED

### Output data

Nominal output voltage range	42 V AC ... 660 V AC (45/65 Hz)
Periodic peak reverse voltage	1200 V
Mains frequency	45 Hz
	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
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011
	Basic insulation
Rated surge voltage / insulation	Basic insulation

## Classifications

eCl@ss

eCl@ss 4.0	27371102
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### Classifications

#### eCl@ss

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

#### UNSPSC

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

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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

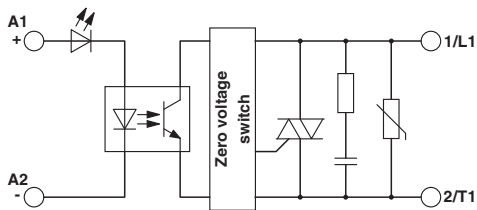
## Approvals

cUL Recognized

cULus Recognized

## Drawings

Block diagram



Diagram

