

# Solid-state contactor - ELR 1-SC-230AC/600AC-30 - 1032922

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



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626536477

## Technical data

### Dimensions

Width	18 mm
Height	110 mm
Depth	103 mm

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

### Input data

Input name	Control input
Rated actuating voltage $U_c$	230 V AC
Triggering voltage range	24 V AC ... 275 V AC
	24 V DC ... 190 V DC
Rated actuating current $I_c$	approx. 17 mA
Switching threshold	$\leq 5$ V AC/DC ("0" signal)
	$\geq 20$ V AC/DC ("1" signal)
Transmission frequency	6 Hz
Operating voltage display	Green LED

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## Technical data

### Output data load output

Output name	Load output
Operating voltage range	42 V AC ... 660 V AC
Load current range	250 mA ... 30 A (see to derating)
Rated operating current at AC-51	30 A
Rated operating current at AC-53a	15 A (T <sub>A</sub> = 25 °C)
	5 A (T <sub>A</sub> = 40 °C)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	600 A (t = 10 ms)
Type of protection	Varistor

### General

Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing

### Connection data

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	18 ... 12

### Connection data 2

Connection name	Load circuit
Connection method	Screw connection
Stripping length	12 mm
Screw thread	M4
Conductor cross section solid	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section flexible	1 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	14 ... 10

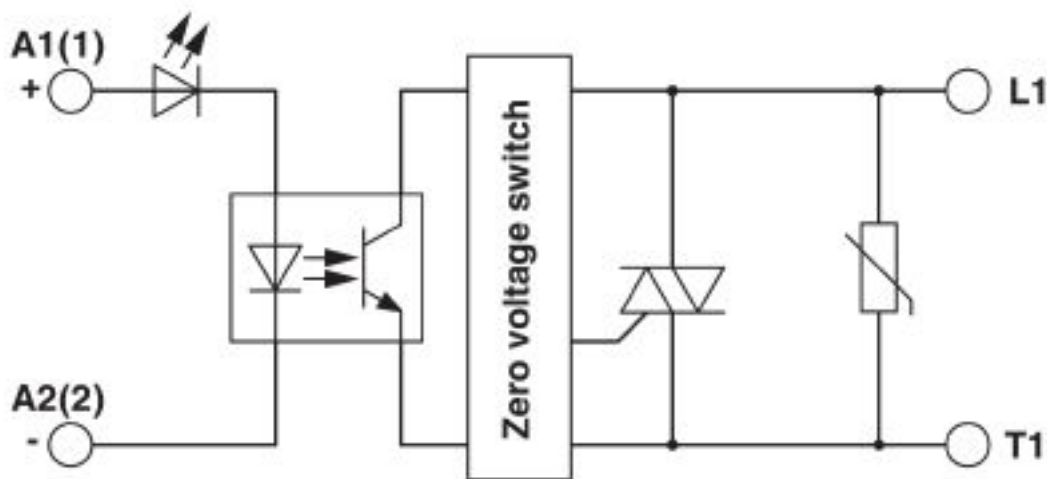
### Standards and Regulations

Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 55011

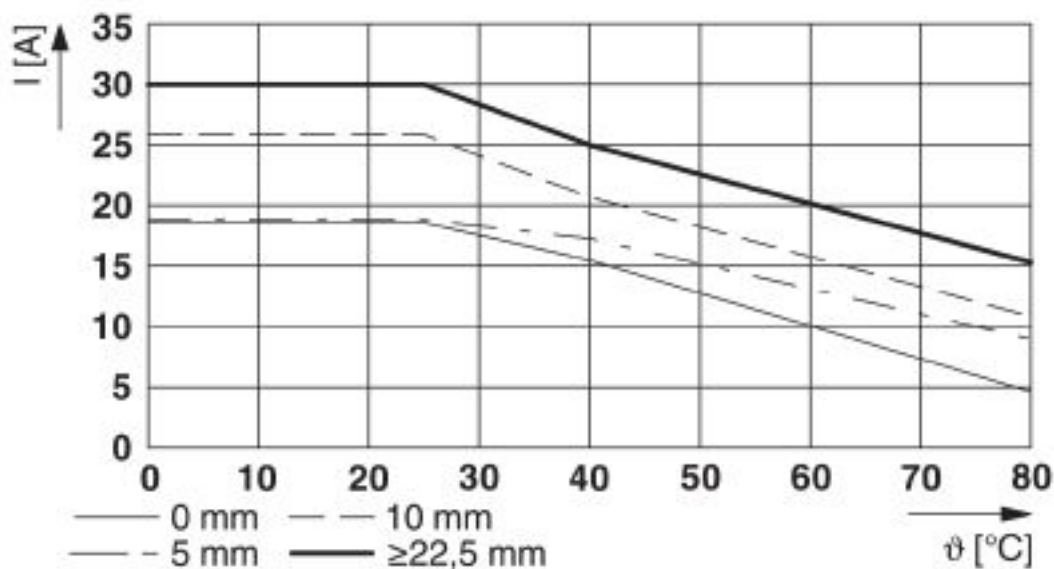
## Drawings

# Solid-state contactor - ELR 1-SC-230AC/600AC-30 - 1032922

Block diagram



Diagram



## Classifications

eCl@ss

eCl@ss 10.0.1	27371014
eCl@ss 6.0	27371000
eCl@ss 7.0	27371014
eCl@ss 8.0	27371014
eCl@ss 9.0	27371014

ETIM

ETIM 5.0	EC002055
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# Solid-state contactor - ELR 1-SC-230AC/600AC-30 - 1032922

## Classifications

### ETIM

ETIM 6.0	EC002055
ETIM 7.0	EC002055

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 323771
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 323771
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EAC			RU C- DE*.B.0080120
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cULus Listed			
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