

## Solid-state contactor - ELR 1-230AC/600AC-20 - 2297141

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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 20 A, zero voltage switch

### Your advantages

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 132015
GTIN	4046356132015

### 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)	-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
Rated actuating current $I_c$	approx. 17 mA
Switching threshold	$\leq 6$ V AC ("0" signal)

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## Technical data

### Input data

	≥ 22 V AC ("1" signal)
Transmission frequency	6 Hz
Operating voltage display	Green LED

### Output data load output

Output name	Load output
Operating voltage range	42 V AC ... 660 V AC
Load current range	350 mA ... 20 A (see to derating)
Rated operating current at AC-51	20 A
Rated operating current at AC-53a	5 A
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	250 A (t = 10 ms)
Type of protection	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

### Connection data

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
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	20 ... 14

### Connection data 2

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	20 ... 12

### Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3

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## Technical data

### Standards and Regulations

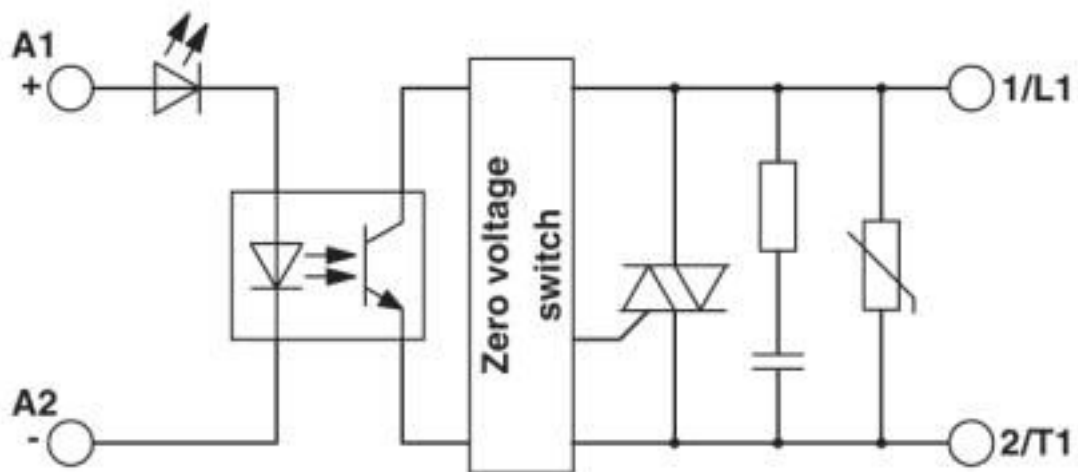
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

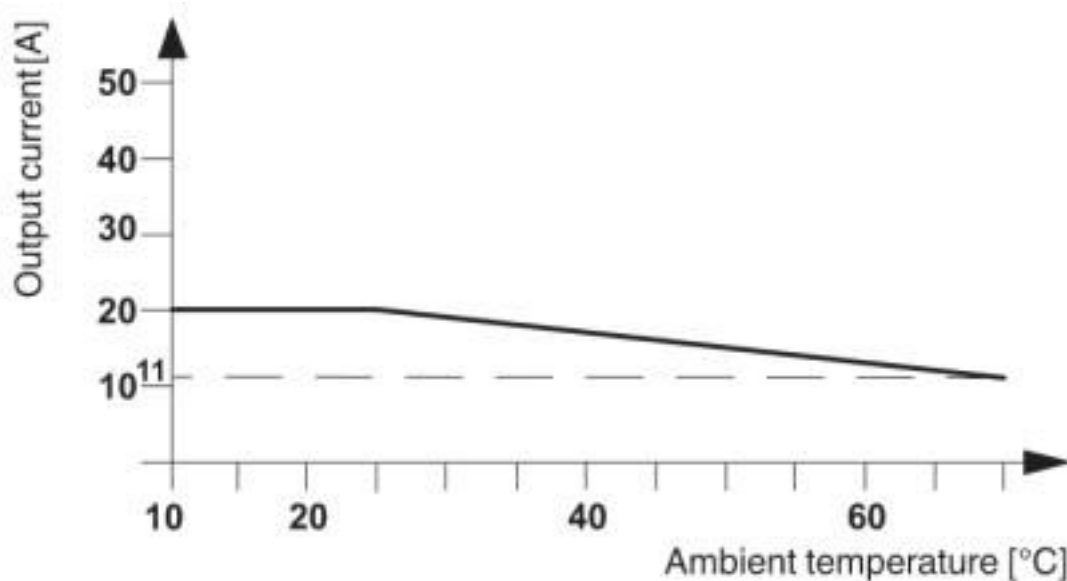
## Drawings

Block diagram



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Diagram



## Classifications

### eCl@ss

eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000
eCl@ss 5.1	27371000
eCl@ss 6.0	27371000
eCl@ss 7.0	27371014
eCl@ss 8.0	27371014
eCl@ss 9.0	27371014

### ETIM

ETIM 4.0	EC002055
ETIM 5.0	EC002055
ETIM 6.0	EC002055
ETIM 7.0	EC002055

### UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121529
UNSPSC 19.0	39121529

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## Approvals

### Approvals

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#### Approvals





UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

UL Recognized		<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 195083
cUL Recognized		<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 195083
EAC			RU C- DE.A*30.B.01082
cULus Recognized			

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[D1202F](#) [D53TP50-10](#) [W230E-1-12](#) [W230T-3-12](#) [1-1617030-3](#) [1-1617033-7](#) [MS2-D2420](#) [MS2-D2430](#) [A-1440](#) [RJ1P60V50E](#) [HS501DR-](#)  
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