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

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 131995
GTIN	4046356131995

Technical data

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	≤ 6 V AC (“0” signal)
	≥ 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	150 mA ... 30 A (see to derating)
Rated operating current at AC-51	30 A

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Output data load output

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)
Type of protection	RCV circuit

Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm² ... 2.5 mm²
Conductor cross section flexible	0.5 mm² ... 2.5 mm²
Conductor cross section AWG	20 ... 14

Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4
Conductor cross section solid	0.5 mm² ... 4 mm²
Conductor cross section flexible	0.5 mm² ... 4 mm²
Conductor cross section AWG	20 ... 12

General

Test voltage input/output	4 kV_{rms}
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with ≥ 22.5 mm spacing

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

Standards and Regulations

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

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Standards and Regulations

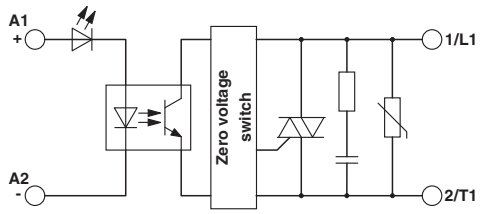
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Environmental Product Compliance

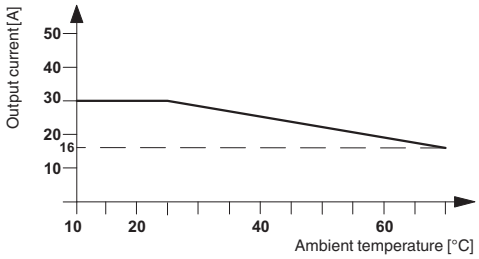
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Block diagram



Diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 195083

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 195083

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Approvals

EAC		RU C-DE.A*30.B.01082

cULus Recognized	

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