

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

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Single-phase solid-state contactor, input voltage: 24 V DC, output current: 30 A, zero voltage switch

Why buy this product

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



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	263.6 g
Custom tariff number	85362010
Country of origin	Malta

Technical data

Input data

Input name	Device supply
Input voltage range	4 V DC ... 32 V DC
Typical input current at U_N	approx. 12 mA
Switching threshold	≤ 1 V DC ("0" signal) ≥ 4 V DC ("1" signal)
Transmission frequency	25 Hz
Operating voltage display	Green LED

Output data load output

Operating voltage range	42 V AC ... 660 V AC (45/65 Hz)
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Technical data

Output data load output

Load current range	150 mA ... 30 A (see to derating)
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)
Protective circuit	RCV circuit 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 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section AWG	20 ... 14

Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
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Conductor cross section flexible	0.5 mm ² ... 4 mm ²
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
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Dimensions

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Technical data

Dimensions

Width	22.5 mm
Height	103 mm
Depth	103 mm

Ambient conditions

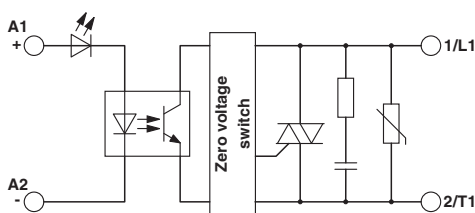
Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Standards and Regulations

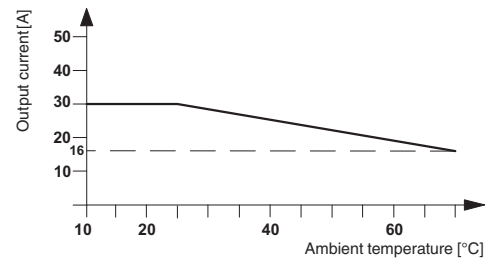
Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Drawings

Block diagram



Diagram



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	27371014

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Classifications

eCl@ss

eCl@ss 9.0	27371601
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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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UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized


cUL Recognized

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Approvals

EAC

EAC

cULus Recognized  US