

Solid-state contactor - ELR 1- 24DC/600AC-20 - 2297138

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Single-phase solid-state contactor, input voltage: 24 V DC, output current: 20 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 132022
GTIN	4046356132022
Weight per Piece (excluding packing)	260.000 g
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)	-40 °C ... 80 °C

Solid-state contactor - ELR 1- 24DC/600AC-20 - 2297138

Technical data

Input data

Input name	Control input
Rated actuating voltage U_c	24 V DC
Triggering voltage range	4 V DC ... 32 V DC
Rated actuating current I_c	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

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 _{rms}
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 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 2

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M4

Solid-state contactor - ELR 1- 24DC/600AC-20 - 2297138

Technical data

Connection data 2

Conductor cross section solid	0.5 mm ² ... 4 mm ²
Conductor cross section flexible	0.5 mm ² ... 4 mm ²
Conductor cross section AWG	20 ... 12

Standards and Regulations

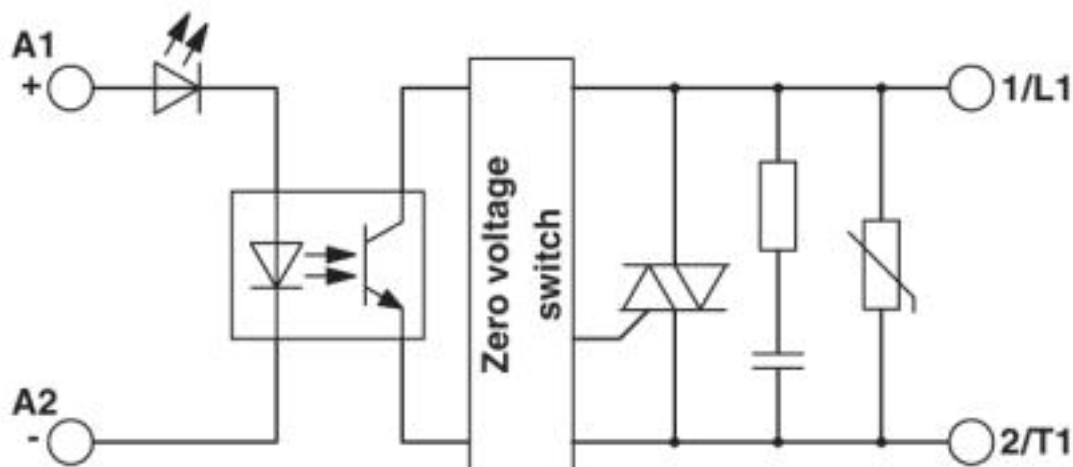
Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Environmental Product Compliance

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

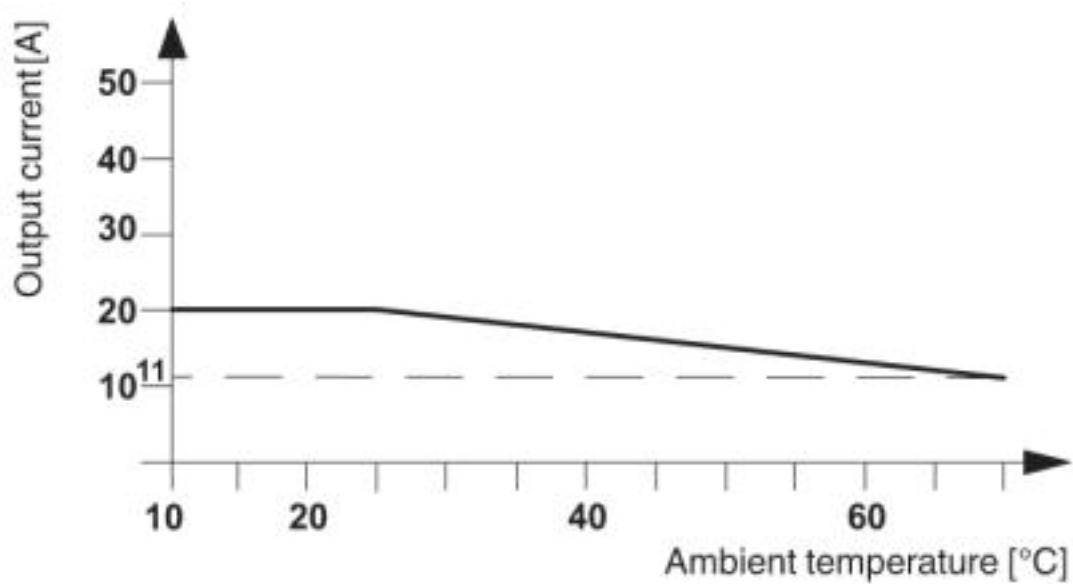
Drawings

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

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Classifications

UNSPSC

UNSPSC 13.2	39121529
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Accessories

Accessories

Device marking

Plastic label - US-EMLP (15X5) - 0828790



Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

Plastic label - UC-EMLP (15X5) - 0819301



Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10