

Solid-state contactor - ELR 1-SC-24DC/600AC-20 - 1032919


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Single-phase solid-state contactor, input voltage: 24 V DC, output current: 20 A, zero voltage switch



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 537726
GTIN	4055626537726
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85364190
Country of origin	Malta

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	24 VDC
Triggering voltage range	4 VDC ... 32 VDC

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Technical data

Input data

Rated actuating current I_C	approx. 12 mA
Switching threshold	≤ 1 VDC ("0" signal)
	≥ 4 VDC ("1" signal)
Transmission frequency	25 Hz
Operating voltage display	Green LED

Output data load output

Output name	Load output
Operating voltage range	42 VAC ... 660 VAC
Load current range	150 mA ... 20 A (see to derating)
Rated operating current at AC-51	20 A
Rated operating current at AC-53a	5 A ($T_A = 25$ °C)
	5 A ($T_A = 40$ °C)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	325 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 ² ... 2.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
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 ² ... 6 mm ²
Conductor cross section flexible	1 mm ² ... 4 mm ²
Conductor cross section AWG	14 ... 10

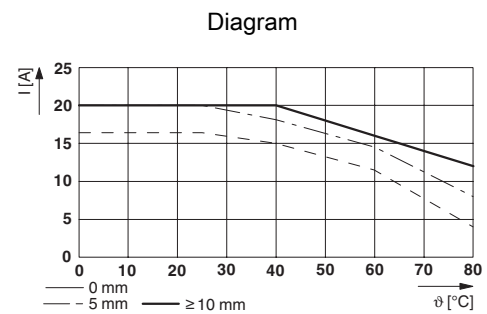
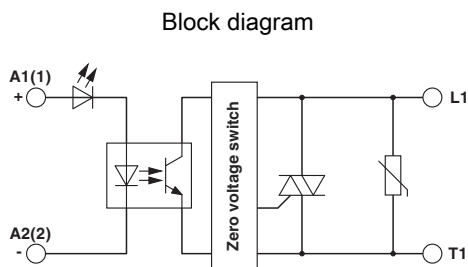
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Technical data

Standards and Regulations

Designation	Standards/regulations
Standards/regulations	EN 61000-4-2
	EN61000-4-3
	EN61000-4-4
	EN61000-4-5
	EN 55011

Drawings



Classifications

eCl@ss

eCl@ss 10.0.1	27371014
eCl@ss 11.0	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
ETIM 6.0	EC002055
ETIM 7.0	EC002055

Approvals

Approvals

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Approvals


Approvals

UL Listed / cUL Listed / EAC / cULus Listed


Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 323771
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cUL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 323771
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EAC			RU C-DE*.B.0080120
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cULus Listed			
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