

Solid-state contactor - ELR 1-SC-230AC/600AC-20 - 1032920

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

RoHS

COMPLIANT

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 537849
GTIN	4055626537849

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	230 V AC
Triggering voltage range	24 V AC ... 275 V AC
	24 V DC ... 190 V DC
Rated actuating current I_c	approx. 17 mA
Switching threshold	≤ 5 V AC/DC ("0" signal)
	≥ 20 V AC/DC ("1" signal)
Transmission frequency	6 Hz
Operating voltage display	Green LED

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Technical data

Output data load output

Output name	Load output
Operating voltage range	42 V AC ... 660 V AC
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 ($T_A = 25\text{ °C}$)
	5 A ($T_A = 40\text{ °C}$)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	325 A ($t = 10\text{ ms}$)
Type of protection	Varistor

General

Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with $\geq 22.5\text{ mm}$ 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

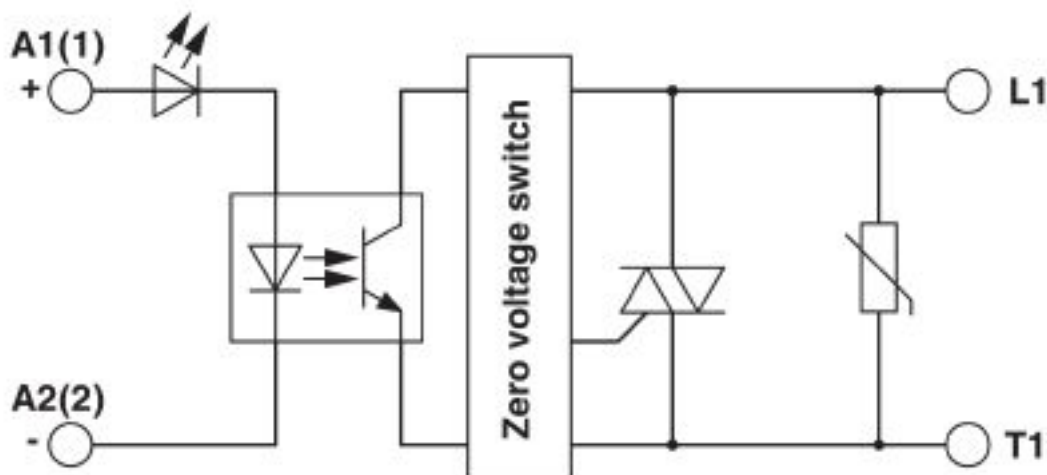
Standards and Regulations

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

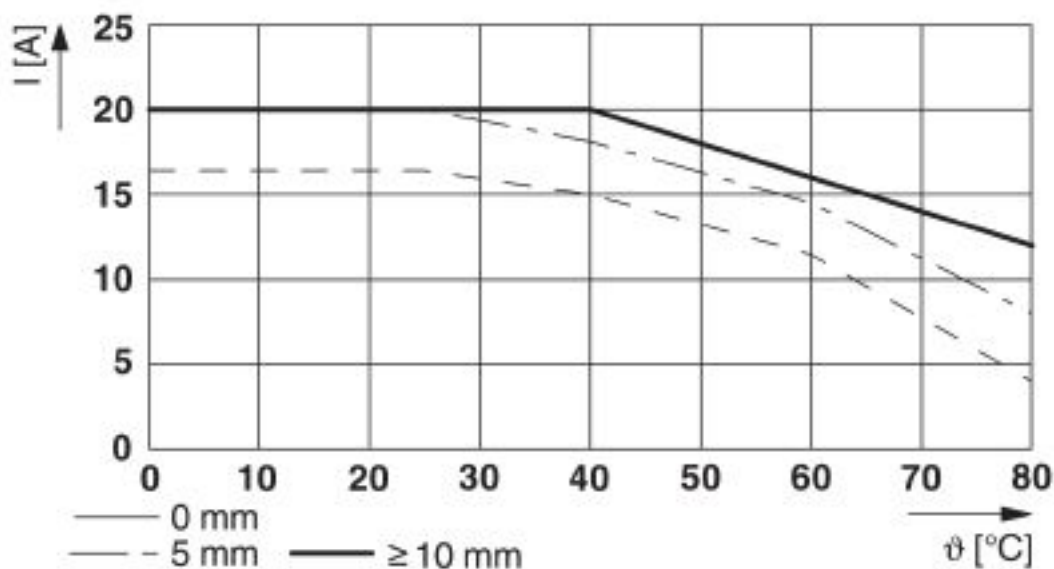
Drawings

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Block diagram



Diagram



Classifications

eCl@ss

eCl@ss 10.0.1	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
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Classifications

ETIM

ETIM 6.0	EC002055
ETIM 7.0	EC002055

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 323771
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cUL Listed		http://database.ul.com/cgi-bin/XYV/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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