Solid-state contactor - ELR 1-SC-24DC/600AC-30 - 1032921

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



Key commercial data

package_quantity	1
GTIN	4055626537924

Technical data

Dimensions

Width	17.8 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 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	250 mA ... 30 A (see to derating)
Rated operating current at AC-51	30 A
Rated operating current at AC-53a	15 A (T_A = 25 °C)

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Technical data

Output data load output

	5 A (T_A = 40 °C)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	600 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 1

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.5 mm² ... 2.5 mm²
Conductor cross section flexible	0.5 mm² ... 2.5 mm²
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 mm² ... 6 mm²
Conductor cross section flexible	1 mm² ... 4 mm²
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

Classifications

eCl@ss

eCl@ss 6.0	27371000
eCl@ss 7.0	27371014
eCl@ss 8.0	27371014
eCl@ss 9.0	27371014

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Classifications

ETIM

ETIM 5.0	EC002055
ETIM 6.0	EC002055
ETIM 7.0	EC002055

Approvals

UL Listed / cUL Listed / EAC / cULus Listed /

Approval details

UL Listed

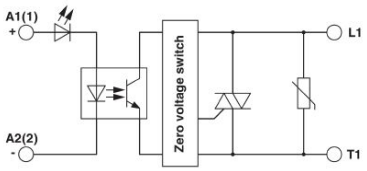
cUL Listed

EAC

cULus Listed

Drawings

Block diagram



Diagram

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