

Solid-state contactor - ELR 1-SC-230AC/600AC-50 - 1032927

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Single-phase solid-state contactor, input voltage: 230 V AC, output current: 50 A, zero voltage switch

Key commercial data

package_quantity	1
GTIN	4055626538105

Technical data

Dimensions

Width	35 mm
Height	110 mm
Depth	141 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

Output data load output

Output name	Load output
Operating voltage range	42 V AC ... 660 V AC
Load current range	500 mA ... 50 A (see to derating)
Rated operating current at AC-51	50 A
Rated operating current at AC-53a	30 A ($T_A = 25$ °C)

Solid-state contactor - ELR 1-SC-230AC/600AC-50 - 1032927

Technical data

Output data load output

	16 A ($T_A = 40\text{ °C}$)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1.6 V
Surge current	1900 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 1

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

Classifications

eCl@ss

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

Solid-state contactor - ELR 1-SC-230AC/600AC-50 - 1032927

Classifications

ETIM

ETIM 5.0	EC002055
ETIM 6.0	EC002055
ETIM 7.0	EC002055

Approvals

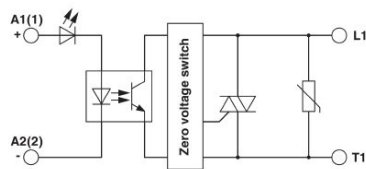
UL Listed / cUL Listed / EAC / cULus Listed /

Approval details

UL Listed 
cUL Listed 
EAC 
cULus Listed 

Drawings

Block diagram



Diagram

Phoenix Contact 2019 © - all rights reserved
<http://www.phoenixcontact.com>