

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

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 documentation. Our general terms of use for downloads are valid.



Single-phase solid-state contactor, input voltage: 24 V DC, output current: 50 A, zero voltage switch

Commercial data

Item number	1032926
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	DK6831
Catalog page	Page 49 (C-5-2019)
GTIN	4055626536897
Weight per piece (including packing)	519.6 g
Weight per piece (excluding packing)	519.6 g
Customs tariff number	85364190
Country of origin	MT

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Technical data

Product properties

Product type	Solid-state contactor
--------------	-----------------------

Electrical properties

Number of phases	1
Maximum power dissipation for nominal condition	58 W
Mains type	1-phase

Input data

Control

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)
Operating voltage display	Green LED
Transmission frequency	25 Hz

Output data

Load output

Operating voltage range	42 V AC ... 660 V AC
Rated operating current at AC-51	50 A
Rated operating current at AC-53a	30 A ($T_A = 25$ °C) 16 A ($T_A = 40$ °C)
Peak offstate voltage	1200 V
Mains frequency	45 Hz 65 Hz
Load current range	500 mA ... 50 A (see to derating)
Leakage current	< 3 mA (In off state)
Residual voltage	< 1 V
Surge current	1900 A ($t = 10$ ms)
Max. load value	18000 A ² s
Protective circuit	Varistor
Phase angle $\cos \phi$ min	0.5

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Screw thread	M3
Conductor cross section rigid	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

Load circuit

Connection method	Screw connection
Stripping length	11 mm
Screw thread	M4
Conductor cross section rigid	2.5 mm ² ... 25 mm ²
Conductor cross section flexible	2.5 mm ² ... 16 mm ²
Conductor cross section AWG	14 ... 6

Protective conductor connection

Connection method	Ring cable lug
Screw thread	M5
Tightening torque	1.5 Nm

Signaling

Operating voltage display	Green LED
---------------------------	-----------

Dimensions

Width	35 mm
Height	110 mm
Depth	141 mm

Material specifications

Color	gray (RAL 7042)
-------	-----------------

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Standards and regulations

Standards/regulations

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

Mounting

Mounting type	DIN rail mounting
Assembly note	Can be aligned with ≥ 22.5 mm spacing

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

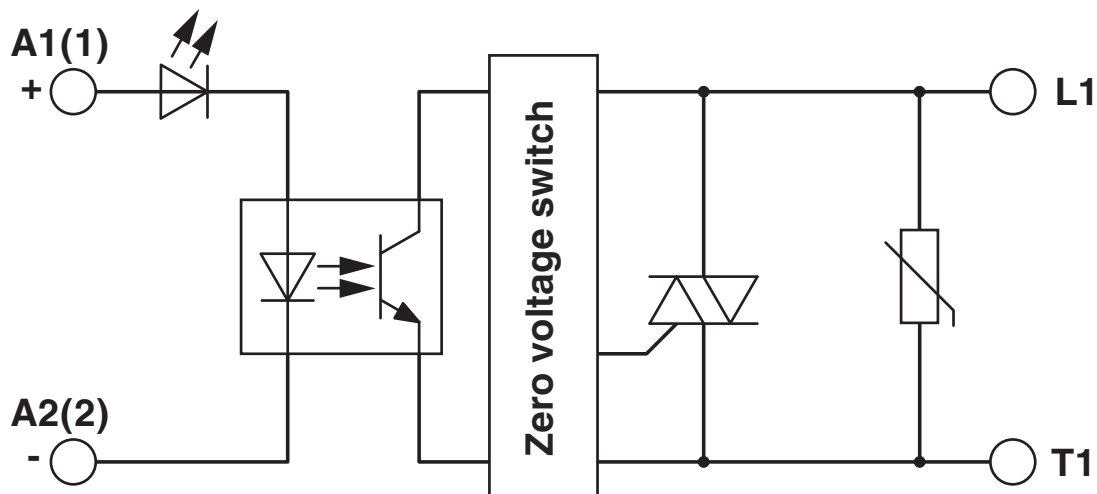
<https://www.phoenixcontact.com/us/products/1032926>

Mounting position

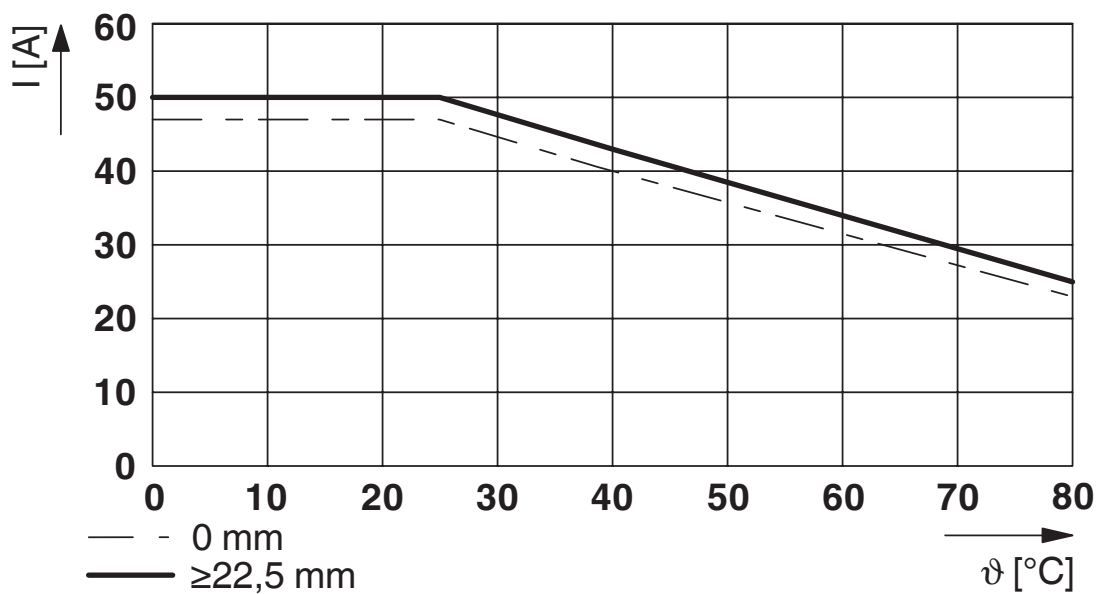
Vertical (horizontal DIN rail)

Drawings

Block diagram



Diagram



ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1032926>



EAC

Approval ID: RU C-DE*.B.0080120



UL Listed

Approval ID: FILE E 323771



cUL Listed

Approval ID: FILE E 323771

cULus Listed

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Classifications

ECLASS

ECLASS-11.0	27371003
ECLASS-12.0	27371003
ECLASS-13.0	27371003

ETIM

ETIM 9.0	EC000066
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

ELR 1-SC-24DC/600AC-50 - Solid-state contactor



1032926

<https://www.phoenixcontact.com/us/products/1032926>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
-----------------------------------------	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com