

ELR 3-SC-24DC/600AC-30 - Solid-state contactor



1812692

<https://www.phoenixcontact.com/us/products/1812692>

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



Commercial data

Item number	1812692
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	DK6841
GTIN	4067923439399
Weight per piece (including packing)	938.9 g
Weight per piece (excluding packing)	860 g
Customs tariff number	85364190
Country of origin	MT

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Technical data

Product properties

Product type	Solid-state contactor
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Electrical properties

Number of phases	3
Maximum power dissipation for nominal condition	82 W
Mains type	3-phase
Test voltage	4 kV

Insulation characteristics

Rated insulation voltage	600 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2

Input data

Control

Input name	Control input
Rated actuating voltage U_C	24 V DC
Triggering voltage range	5 V DC ... 32 V DC
Rated actuating current I_C	29 mA
Switching threshold	≤ 1 V DC ("0" signal)
	≥ 4.8 V DC ("1" signal)
Protective circuit	Reverse polarity protection
	Surge protection
Operating voltage display	Green LED

Output data

Load output

Operating voltage range	42 V AC ... 660 V AC
Rated operating current at AC-51	30 A
Rated operating current at AC-53a	14 A ($T_A = 40$ °C)
Mains frequency	45 Hz ... 65 Hz
Load current range	400 mA ... 30 A (see to derating)
Leakage current	5 mA (In off state)
Surge current	1150 A ($t = 10$ ms)
Max. load value	6600 A ² s
Protective circuit	Varistor
Phase angle cos phi min	0.5

Connection data

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Control circuits

Connection method	Screw connection
Stripping length	8 mm
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
Tightening torque	0.5 Nm ... 0.6 Nm
	4.4 lb _F -in. ... 5.3 lb _F -in.

Load circuit

Connection method	Screw connection
Stripping length	11 mm
Screw thread	M5
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 ... 3
Tightening torque	2.5 Nm ... 3 Nm
	22 lb _F -in. ... 26.6 lb _F -in.

Protective conductor connection

Connection method	Ring cable lug
Screw thread	M5
Tightening torque	1 Nm ... 1.5 Nm

Dimensions

Width	72 mm
Height	110 mm
Depth	125.5 mm

Material specifications

Color	gray (RAL 7042)
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Environmental and real-life conditions

Ambient conditions

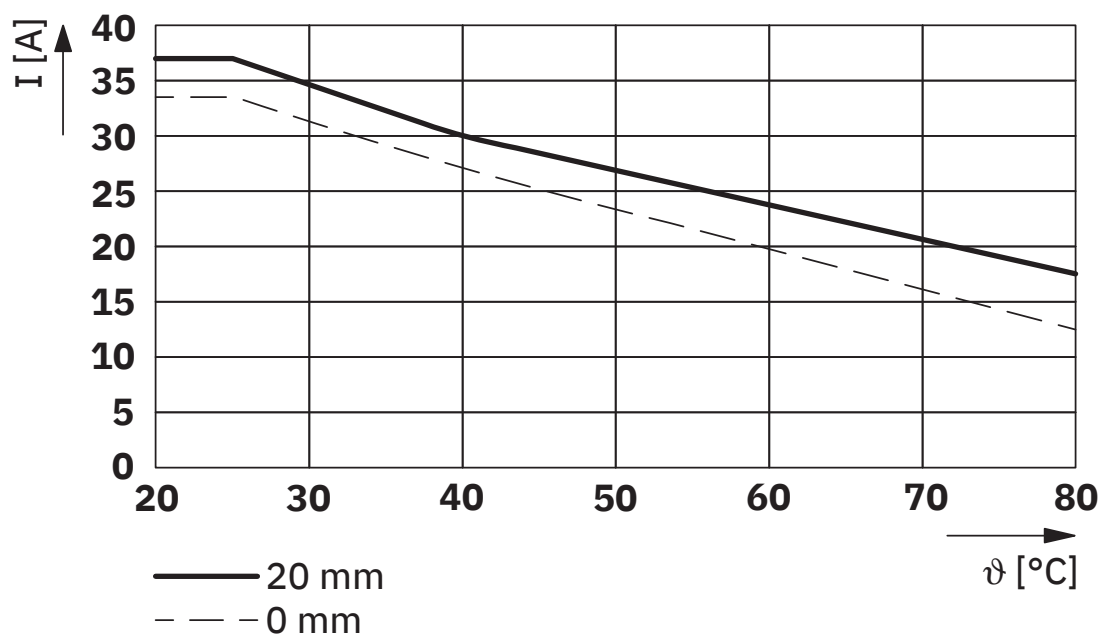
Degree of protection	IP20
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Mounting

Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	Vertical (horizontal DIN rail)

Drawings

Diagram



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Approvals

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cULus Listed

Approval ID: E323771

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Classifications

ECLASS

ECLASS-13.0	27371003
ECLASS-15.0	27371003

ETIM

ETIM 10.0	EC000066
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

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.)	Lead(CAS: 7439-92-1)
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