

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



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)	860 g
Weight per piece (excluding packing)	840 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Product properties

Product type	Solid-state contactor
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Electrical properties

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

Control circuits

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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	1.5 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

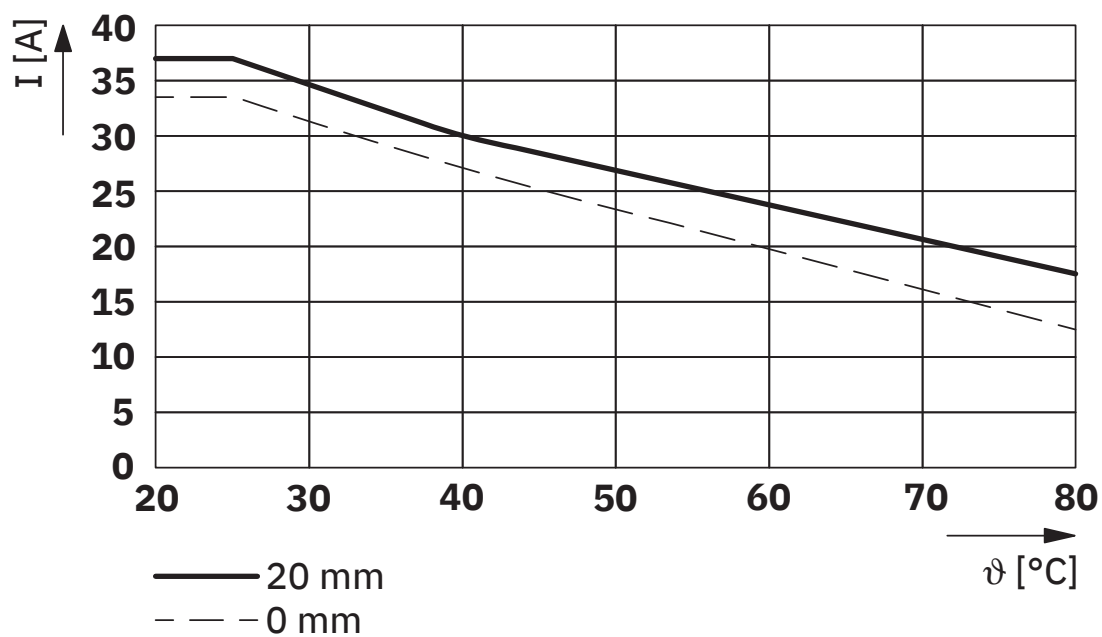
Degree of protection	IP20
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Mounting

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

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)