

1812699

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3-phase solid-state contactor, input voltage: 24 V DC, output current: 10 A, zero-voltage switch

### Commercial data

Item number	1812699
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	DK6841
GTIN	4067923440401
Customs tariff number	85364190
Country of origin	DE



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### Technical data

### Product properties

Product type	Solid-state contactor
Electrical properties	
Maximum power dissipation for nominal condition	25 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 $U_{\mathbb{C}}$	24 V DC
Triggering voltage range	5 V DC 32 V DC
Rated actuating current I <sub>C</sub>	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	10 A
Rated operating current at AC-53a	5 A (T <sub>A</sub> = 40 °C)
Mains frequency	45 Hz 65 Hz
Load current range	250 mA 10 A (see to derating)
Leakage current	5 mA (In off state)
Surge current	600 A (t = 10 ms)
Max. load value	1800 A <sup>2</sup> s
Protective circuit	Varistor
Phase angle cos phi min	0.5

#### Connection data

#### Control circuits



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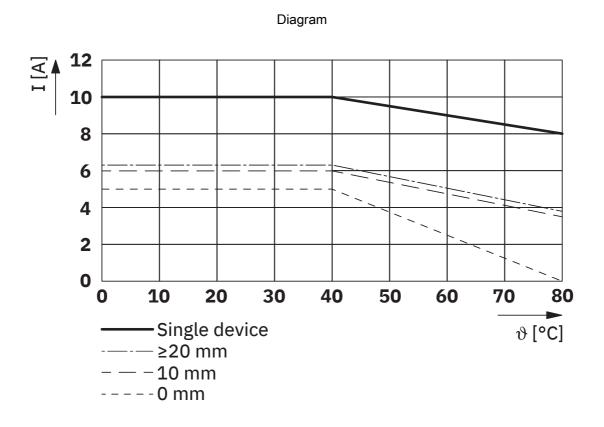
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.5 mm² 2.5 mm²
Conductor cross-section flexible	0.5 mm² 2.5 mm²
Conductor cross-section AWG	18 12
Tightening torque	0.5 Nm 0.6 Nm
	4.4 lb <sub>f</sub> -in 5.3 lb <sub>f</sub> -in.
Load circuit	
Connection method	Screw connection
Stripping length	12 mm
Screw thread	M4
Conductor cross-section rigid	2.5 mm² 6 mm²
Conductor cross-section flexible	1 mm² 4 mm²
Conductor cross-section AWG	14 10
Tightening torque	1.5 Nm 2 Nm
	13.3 lb <sub>C</sub> in 17.7 lb <sub>C</sub> in.
Protective conductor connection	
Connection method	Ring cable lug
Screw thread	M5
Tightening torque	1.5 Nm
imensions	
Width	54 mm
Height	106 mm
Depth	64.5 mm
aterial specifications	
Color	gray (RAL 7042)
Color	gray (IVAL 1042)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
ounting	
Mounting type	DIN rail mounting
	Direct mounting
Assembly note	See derating curve
Mounting position	Vertical (horizontal DIN rail)



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## Drawings





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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



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### Environmental product compliance

#### EU RoHS

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