

2900530

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Hybrid motor starter for starting 3~ AC motors up to 500 V AC and 9 A output current, with 24 V DC control voltage and screw connection.

Your advantages

- 22.5 mm wide
- · Low-wear switching
- · Long service life
- · Space saving
- 3-phase loop bridges

Commercial data

Item number	2900530
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C470
Product key	DK7423
GTIN	4046356526012
Weight per piece (including packing)	192.6 g
Weight per piece (excluding packing)	159.05 g
Customs tariff number	85371098
Country of origin	DE



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Technical data

Product properties

Product type	Hybrid motor starters
Product family	CONTACTRON
Operating mode	100% operating factor

Electrical properties

Number of phases	3
Motor starter type	Direct starter
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation for nominal condition	13.5 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	14.6 W
Minimum power dissipation	1.1 W
Coordination type	1

Supply

Rated control circuit supply voltage U _S	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current I _S	40 mA
Protective circuit	Surge protection
	Reverse polarity protection

Insulation characteristics

modation characteristics	
Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Insulation characteristics between the control input and control	Safe isolation (IEC 60947-1) at operating voltage ≤ 300 V AC
supply voltage, and auxiliary circuit to the main circuit	Basic insulation (IEC 60947-1) at operating voltage 300 V AC 500 V AC
Isolation characteristics between the control input and control supply voltage to auxiliary circuit	Safe isolation (IEC 60947-1) in the auxiliary circuit ≤ 300 V AC

Input data

Control

Control	
Input name	Control input
Rated actuating voltage U _C	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Rated actuating current I _C	5 mA (Input type 1)
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)
Typical turn-off time	< 30 ms



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Depth

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Protective circuit	Reverse polarity protection
	, and a particular par
Output data	
AC output	
Rated operating voltage U _e	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I _e	9 A (AC-51)
	6.5 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	0 A 9 A (see to derating)
Trigger characteristic in acc. with IEC 60947-4-2	-
Leakage current	0 mA
Protective circuit	Surge protection
Connection data	
Control circuits	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm
	5 lb _f -in 7 lb _f -in.
Load circuit	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm
	5 lb _f -in 7 lb _f -in.
Signaling	
Status display	LED (yellow)
Operating voltage display	Green LED
Dimensions	
Width	22.5 mm
Height	107 mm

114 mm



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Material specifications

	V0 (Housing)	Flammability rating according to UL 94 (Housing)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m

UKCA-compliant

NLDX / NRNT

Approvals

UKCA

Certificate

	- Control of the Cont
UL approval	
Certificate	NLDX.E228652
UL data	
SCCR	100 kA (500 V AC (fuse: 30 A class CC/30 A class J (high fault)))
	5 kA (500 V AC (fuse: 20 A RK5 (standard fault)))
FLA	6.5 A (500 V AC)
Group installation	20 A (class RK5, SCCR 5kA, #24 - 14 AWG max. solid and stranded)
	30 A (class CC or J, SCCR 100kA, #24 - 14 AWG max, solid and stranded)

Standards and regulations

Standards/regulations

Category code

Standards/regulations	IEC 60947-1
	IEC 60947-4-2
	IEC 61508
	ISO 13849

Mounting

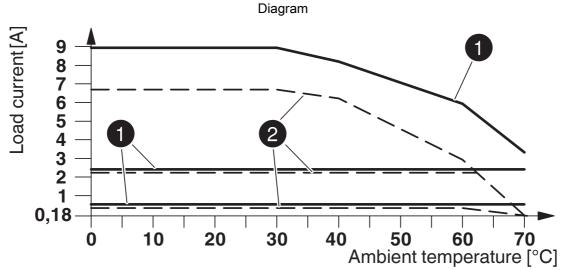
Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)



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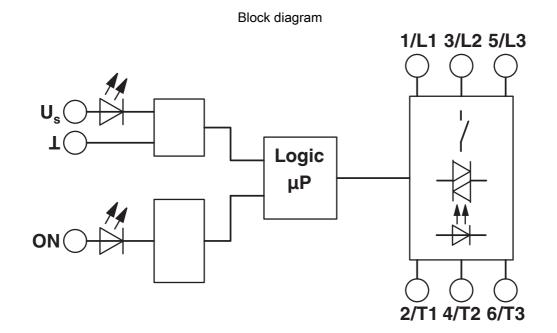
Drawings



1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram





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Approvals

☼ To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900530



IECEE CB Scheme

Approval ID: DE1-55728



EAC

Approval ID: RU*C-DE.*08.B.00520*



UL Listed

Approval ID: FILE E 323771



CCC

Approval ID: 2016010304871315



cUL Listed

Approval ID: FILE E 323771



cUL Listed

Approval ID: E228652



UL Listed

Approval ID: E228652



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Classifications

ECLASS

	ECLASS-13.0	27370905	
	ECLASS-15.0	27370905	
ETIM			
	ETIM 9.0	EC001037	
UNSPSC			
	UNSPSC 21.0	25173900	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes		
Exemption	7(a), 7(c)-l		
China RoHS			
Environment friendly use period (EFUP)	EFUP-50		
	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)		
SCIP	9aa564a1-d8cf-4e1a-a533-cacb62a4b57c		



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Accessories

BRIDGE- 2 - Bridge

2900746

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3-phase loop bridge for CONTACTRON modules, with screw connection and 22. 5 mm housing width, connecting cable: 0.3 m, with ferrules.



BRIDGE- 3 - Bridge

2900747

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3-phase loop bridge for 3 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 0.3 m, with ferrules.





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BRIDGE- 4 - Bridge

2900748

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3-phase loop bridge for 4 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: $0.3 \, \text{m}$, with ferrules.



BRIDGE- 5 - Bridge

2900749

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3-phase loop bridge for 5 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 0.3 m, with ferrules.





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BRIDGE- 6 - Bridge

2900750

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3-phase loop bridge for 6 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: $0.3 \, \text{m}$, with ferrules.



BRIDGE-7 - Bridge

2900751

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3-phase loop bridge for 7 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 0.3 m, with ferrules.





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BRIDGE-8 - Bridge

2900752

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3-phase loop bridge for 8 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: $0.3 \, \text{m}$, with ferrules.



BRIDGE-9-Bridge

2900753

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3-phase loop bridge for 9 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 0.3 m, with ferrules.





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BRIDGE-10 - Bridge

2900754

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3-phase loop bridge for 10 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 0.3 m, with ferrules.



BRIDGE- 2-1M - Bridge

2901542

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3-phase loop bridge for 2 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 1 m $\,$





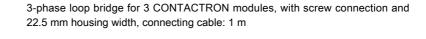
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BRIDGE- 3-1M - Bridge

2901655

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BRIDGE- 4-1M - Bridge

2901658

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3-phase loop bridge for 4 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 1 m $\,$





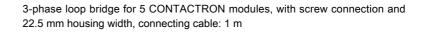
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BRIDGE- 5-1M - Bridge

2901544

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BRIDGE- 6-1M - Bridge

2901649

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3-phase loop bridge for 6 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 1 m





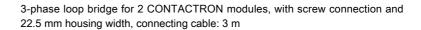
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BRIDGE- 2-3M - Bridge

2901543

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BRIDGE- 3-3M - Bridge

2901656

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3-phase loop bridge for 3 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 3 m $\,$





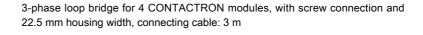
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BRIDGE- 4-3M - Bridge

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BRIDGE- 5-3M - Bridge

2901545

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3-phase loop bridge for 5 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 3 m $\,$





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BRIDGE- 6-3M - Bridge

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BRIDGE- 7-3M - Bridge

2901698

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3-phase loop bridge for 7 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 3 m $\,$





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BRIDGE- 8-3M - Bridge

2901700

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BRIDGE- 9-3M - Bridge

2901701

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3-phase loop bridge for 9 CONTACTRON modules, with screw connection and 22.5 mm housing width, connecting cable: 3 m $\,$





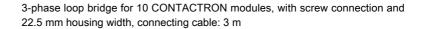
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BRIDGE-10-3M - Bridge

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BRIDGE- 2- 2M/0,3M - Bridge

2909897

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3-phase loop bridge for 2 CONTACTRON modules, with screw connection and 22.5 mm housing width, cable length between the modules: 0.3 m, connecting cable: 2 m $\,$



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BRIDGE- 3- 2M/0,3M - Bridge

2909898

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3-phase loop bridge for 3 CONTACTRON modules, with screw connection and 22.5 mm housing width, cable length between the modules: 0.3 m, connecting cable: 2 m

BRIDGE- 4- 2M/0,3M - Bridge

2909899

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3-phase loop bridge for 4 CONTACTRON modules, with screw connection and 22.5 mm housing width, cable length between the modules: 0.3 m, connecting cable: 2 m $\,$



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US-EMLP (15X5) - Plastic label

0828790

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Plastic label, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm

UC-EMLP (15X5) - Plastic label

0819301

https://www.phoenixcontact.com/us/products/0819301



Plastic label, Sheet, white, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 15 mm

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