

2905147

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Networkable hybrid motor starter for reversing 3~ AC motors up to 500 V AC, output current: 9 A, adjustable overload shutdown, and Push-in connection, DIN rail connector provided.

Your advantages

- 22.5 mm wide
- · Reduction in wiring
- · Space saving
- · Long service life
- · 3-phase loop bridges
- · Adjustable current for bimetal function
- · Low-wear switching

Commercial data

Item number	2905147
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK7444
Catalog page	Page 25 (C-5-2019)
GTIN	4046356919562
Weight per piece (including packing)	290 g
Weight per piece (excluding packing)	282.7 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
Data management status	
Article revision	05

Electrical properties

Number of phases	3
Motor starter type	Reversing starter
Maximum power dissipation for nominal condition	12 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	7 W
Minimum power dissipation	0.88 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	60 mA
Protective circuit	Surge protection
	Reverse polarity protection; Parallel polarity protection diode

Insulation characteristics

Rated insulation voltage	550 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Insulation characteristics between the control input and control supply voltage, and auxiliary circuit to the main circuit	Safe isolation (IEC 60947-1)
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

Emergency tripping

0 11 0	
Operate threshold	> 60 A
Response time	< 0.5 s

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)



2905147

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	7 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	1.5 A 9 A (see to derating)
Trigger characteristic in acc. with IEC 60947-4-2	Class 10A
Cooling time	20 min. (for auto reset)
Leakage current	0 mA
Protective circuit	Surge protection; Varistor

Connection data

Control circuits

Connection method	Push-in connection
Stripping length	10 mm
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

Load circuit

Connection method	Push-in connection
Stripping length	10 mm
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

Signaling

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED

Dimensions

Width	22.5 mm
Height	107.5 mm
Depth	114 mm

Material specifications

Flammability rating according to UL 94
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-5 °C 60 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m

Approvals



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Mounting position

UKCA	
Certificate	UKCA-compliant
UL approval	
Certificate	NLDX.E228652
	NRNT.E172140
UL data	
SCCR	100 kA (480 V AC (fuse: 30 A class CC/30 A class J (high fault)))
	5 kA (480 V AC (fuse: 20 A RK5 (standard fault)))
FLA	7.6 A (480 V AC)
Group installation	20 A (class RK5, SCCR 5kA (480 V AC), #24 - 14 AWG max. solid and stranded)
	30 A (class CC or J, SCCR 100kA (480 V AC), #24 - 14 AWG max, solid and stranded)
Category code	NLDX / NRNT
Horsepower ratings	2 hp (208 V AC)
	2 hp (230 V AC)
	2 hp (240 V AC)
	5 hp (480 V AC)
tandards and regulations	
Standards/regulations	
Standards/regulations	IEC 60947-1
	EN 60947-4-2
ounting	
Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating

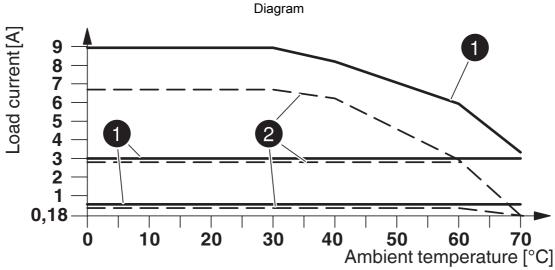
vertical (horizontal DIN rail, motor output below)



2905147

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Drawings

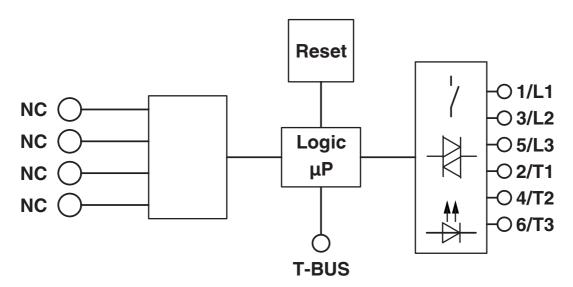


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

Block diagram





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Classifications

ECLASS

	ECLASS-11.0	27370905			
	ECLASS-13.0	27370905			
	ECLASS-12.0	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	a8208c9e-6ea6-4693-a571-ad906335752b			



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Accessories

BRIDGE-PT 1 - Bridge

1161777

https://www.phoenixcontact.com/pc/products/1161777

3-phase loop bridge for 1 CONTACTRON module, with Push-in connection and 22.5 mm housing width, connecting cable: $3\ m$



BRIDGE-PT 2 - Bridge

2904490

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





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BRIDGE-PT 3 - Bridge

2904491

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



BRIDGE-PT 4 - Bridge

2904492

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





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BRIDGE-PT 5 - Bridge

2904493

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



BRIDGE-PT 6 - Bridge

2904494

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3-phase loop bridge for 6 CONTACTRON modules, with Push-in connection and 22.5 mm housing width, connecting cable: $3\ m$





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BRIDGE-PT 7 - Bridge

2904495

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



BRIDGE-PT 8 - Bridge

2904496

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3-phase loop bridge for 8 CONTACTRON modules, with Push-in connection and 22.5 mm housing width, connecting cable: 3 m $\,$





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BRIDGE-PT 9 - Bridge

2904497

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



BRIDGE-PT 10 - Bridge

2904498

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3-phase loop bridge for 10 CONTACTRON modules, with Push-in connection and 22.5 mm housing width, connecting cable: 3 m $\,$





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BRIDGE-PT 1-1M - Bridge

1161778

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3-phase loop bridge for 1 CONTACTRON module, with Push-in connection and 22.5 mm housing width, connecting cable: 1 m $\,$



BRIDGE-PT-2-1M - Bridge

1049407

https://www.phoenixcontact.com/pc/products/1049407

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





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BRIDGE-PT-3-1M - Bridge

1049408

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



BRIDGE-PT-4-1M - Bridge

1049409

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





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BRIDGE-PT-5-1M - Bridge

1049413

https://www.phoenixcontact.com/pc/products/1049413

3-phase loop bridge for 5 CONTACTRON modules, with Push-in connection and 22.5 mm housing width, connecting cable: 1 m $\,$



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

1107649

https://www.phoenixcontact.com/pc/products/1107649



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



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

1107650

https://www.phoenixcontact.com/pc/products/1107650



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

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

1107644

https://www.phoenixcontact.com/pc/products/1107644



3-phase loop bridge for 4 CONTACTRON modules, with Push-in 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, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

UC-EMLP (15X5) - Plastic label

0819301

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



Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10



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ME 22,5 TBUS 1,5/5-ST-3,81 GY - DIN rail bus connectors

2201937

https://www.phoenixcontact.com/pc/products/2201937



DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-22,5.., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

EM-PB-GATEWAY-IFS - Data interface

2297620

https://www.phoenixcontact.com/pc/products/2297620



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via PROFIBUS DP. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.



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EM-CAN-GATEWAY-IFS - Data interface

2901504

https://www.phoenixcontact.com/pc/products/2901504



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via CANopen®. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

EM-MODBUS-GATEWAY-IFS - Data interface

2901528

https://www.phoenixcontact.com/pc/products/2901528



Gateway for the connection of up to 32 INTERFACE system devices via Modbus/TCP to a higher-level controller. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.



2905147

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EM-PNET-GATEWAY-IFS - Data interface

2904472

https://www.phoenixcontact.com/pc/products/2904472



Gateway for the connection of up to 32 INTERFACE system devices via PROFINET to a higher-level controller. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

EM-ETH-GATEWAY-IFS - Data interface

2901988

https://www.phoenixcontact.com/pc/products/2901988



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via EtherNet/IP $^{\text{TM}}$. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.



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EM-D-8/4-24DC-IFS - Extension module

2904473

https://www.phoenixcontact.com/pc/products/2904473



For more complex applications with Interface system devices (IFS), the extension module offers digital inputs and outputs for processing additional signals in the field. Easy connection to IFS gateway via the DIN rail connector as the slave

QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

https://www.phoenixcontact.com/pc/products/2904614



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A



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ME 22,5 TBUS ADAPTER KMGY - DIN rail bus connectors

2201756

https://www.phoenixcontact.com/pc/products/2201756

DIN rail bus adapter for ME and ME-MAX, design width: 22.5 mm, 5 parallel positions, color: light gray (similar to RAL 7035)



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