

2900567

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Hybrid motor starter for starting 3~ AC motors up to 500 V AC and 2.4 A output current, with 24 V DC control voltage, adjustable overload shutdown and emergency stop function to SIL 3/PL e and, screw connection.

Your advantages

- 22.5 mm wide
- Safety level in accordance with IEC 61508-1: SIL 3, ISO 13849: PL e
- · Reduction in wiring
- · Long service life
- · Space saving
- · 3-phase loop bridges
- · Adjustable current for bimetal function
- · Low-wear switching

Commercial Data

Item number	2900567
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK7
Product Key	CK7411
Catalog Page	Page 34 (C-5-2019)
GTIN	4046356526135
Weight per Piece (including packing)	286 g
Weight per Piece (excluding packing)	286 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
Maximum power dissipation for nominal condition	2.2 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	3.3 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

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 supply voltage, and auxiliary circuit to the main circuit	Safe isolation (IEC 60947-1) at operating voltage ≤ 300 V AC
	Basic insulation (IEC 60947-1) at operating voltage 300 V AC \dots 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

Input name	Control input
Rated actuating voltage $U_{\mathbb{C}}$	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)
Switching level	< 5 V DC (For EMERGENCY STOP)
Typical turn-off time	< 30 ms



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Protective circuit

	, ,,
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	2.4 A (AC-51)
, i i	2.4 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	180 mA 2.4 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
Acknowledge output	
Note	Confirmation: floating change-over contact, signal contact
Contact type	1 changeover contact
Switching capacity in accordance with IEC 60947-5-1	3 A (230 V, AC15)
	2 A (24 V, DC13)
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

Reverse polarity protection

Signaling

Screw thread

Tightening torque

Conductor cross section rigid
Conductor cross section flexible

Conductor cross section AWG

Status display	Yellow LED

МЗ

24 ... 14

0.2 mm² ... 2.5 mm²

0.2 mm² ... 2.5 mm²

0.5 Nm ... 0.6 Nm

 5 lb_{f} in. ... 7 lb_{f} in.



2900567

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Operating voltage display	Green LED
Error indication	Red LED
mensions	
Width	22.5 mm
Height	107 mm
Depth	114 mm
aterial specifications	
Flammability rating according to UL 94	V0 (Housing)
nvironmental 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
pprovals	
UKCA	
Certificate	UKCA-compliant
ATEX	
Identification	☐ II (2) G [Ex e] [Ex d] [Ex px]
	□ II (2) D [Ex t] [Ex p]
Certificate	PTB 07 ATEX 3145
UL approval	
Certificate	NLDX.E228652
Safety Integrity Level (SIL, IEC 61508)	
Safety Integrity Level (SIL, IEC 61508) Identification	≤ 3
	≤ 3 Safe shutdown
Identification	
Identification Note	
Identification Note Safety Integrity Level (SIL, IEC 61508)	Safe shutdown
Identification Note Safety Integrity Level (SIL, IEC 61508) Identification	Safe shutdown
Identification Note Safety Integrity Level (SIL, IEC 61508) Identification Note	Safe shutdown
Identification Note Safety Integrity Level (SIL, IEC 61508) Identification Note Performance Level (ISO 13849)	Safe shutdown 2 Motor protection
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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	2.4 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)
Category code	NLDX

Standards and regulations

Standards/regulations

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

Mounting

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

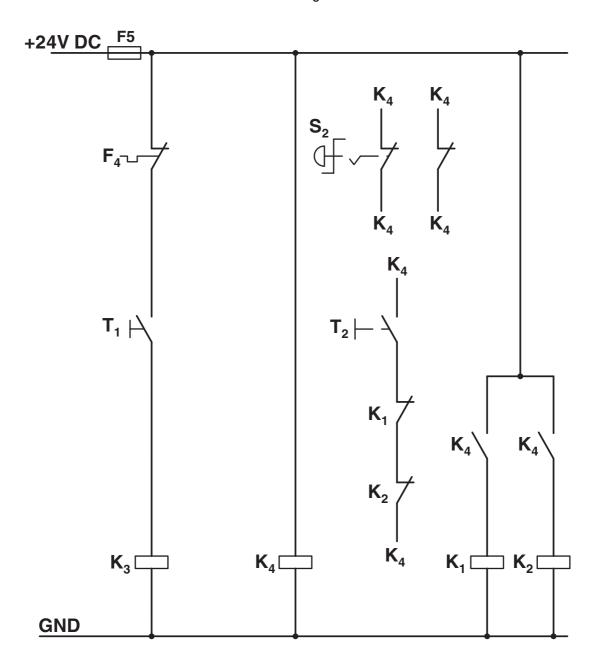


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Drawings

Circuit diagram

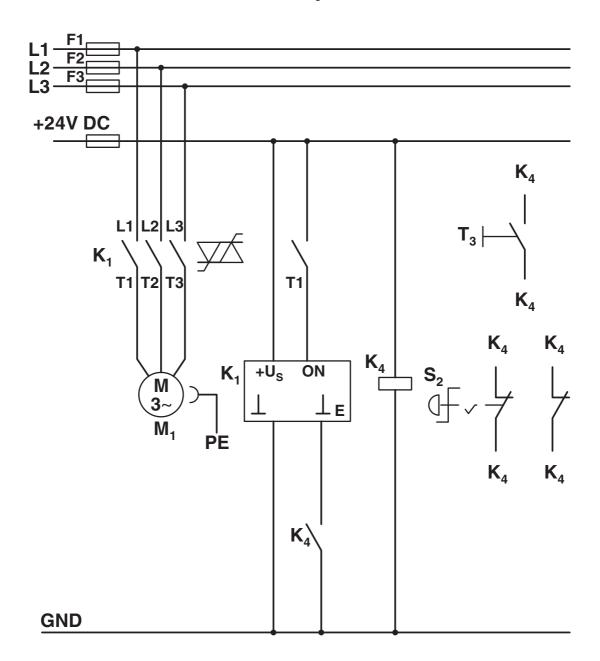




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Circuit diagram

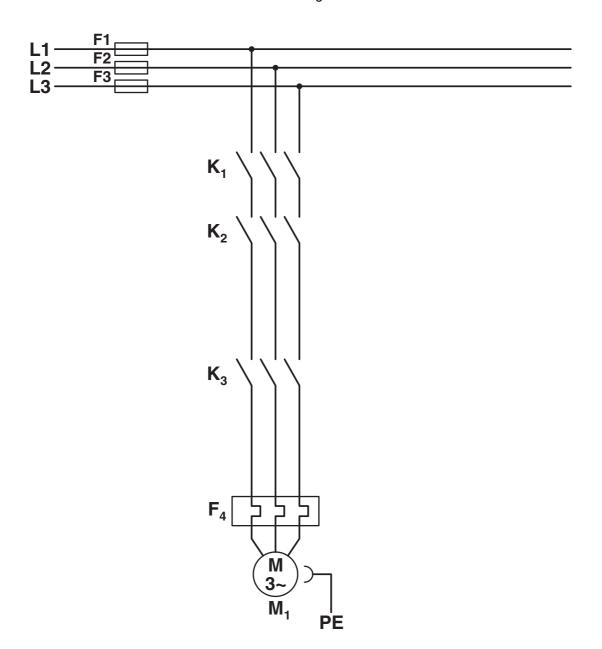




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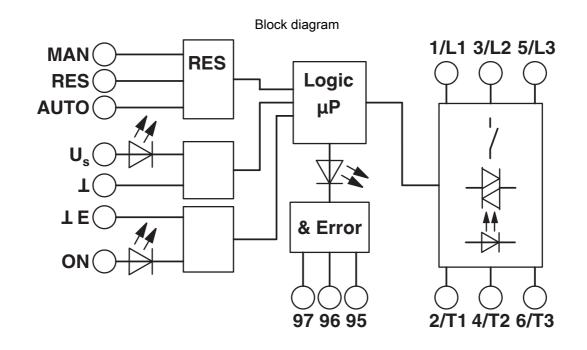
Circuit diagram

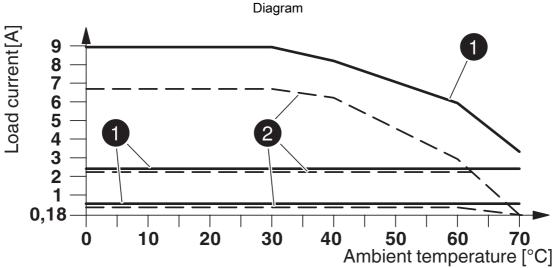




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1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram



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Approvals



IECEE CB Scheme Approval ID: DE1-55728



EAC

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



DNV GL

Approval ID: TAA00002HK



UL Listed

Approval ID: FILE E 323771



CCC

Approval ID: 2016010304871315



cUL Listed

Approval ID: FILE E 323771



cUL Listed

Approval ID: FILE E 228652



UL Listed

Approval ID: FILE E 228652



ATEX

Approval ID: PTB 07 ATEX 3145



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Classifications

ECLASS

	ECLASS-11.0	27370905	
	ECLASS-12.0	27370905	
	ECLASS-13.0	27370905	
ETIM			
	ETIM 8.0	EC001037	
UNSPSC			
	UNSPSC 21.0	25173900	



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

US-EMLP (15X5) - Plastic label

0828790

https://www.phoenixcontact.com/in/products/0828790



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/in/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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EM-CPS-225 - Power distribution board

1002634

https://www.phoenixcontact.com/in/products/1002634



Modular power distribution board with CrossLink[®] interface, 125 A, 3-pos., touch-proof and protection against polarity reversal, width: 225 mm

EM-CPS-405 - Power distribution board

1002635

https://www.phoenixcontact.com/in/products/1002635

Modular power distribution board with CrossLink® interface, 125 A, 3-pos., touch-proof and protection against polarity reversal, width: 405 mm





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EM-CPS-TB3/63A - Connection module

1002633

https://www.phoenixcontact.com/in/products/1002633



Connection module with integrated spring-loaded terminals for cables from 1.5 to $16\ \text{mm}^2$, 3-pos., maximum 63 A

EM-CPS-DA-22,5F/16A - Adapter

1002668

https://www.phoenixcontact.com/in/products/1002668



Device adapter with fuse holder for 16 A fuse (10x38/Class CC), CrossLink[®] interface and fixed DIN rail



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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 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: $0.3 \, \text{m}$, 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 $\,$





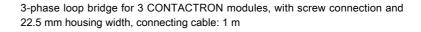
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BRIDGE- 3-1M - Bridge

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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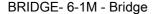
BRIDGE- 5-1M - Bridge

2901544

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



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

2901659

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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

2901697

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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 $\,$





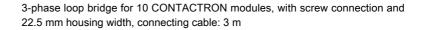
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BRIDGE-10-3M - Bridge

2901702

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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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BRIDGE COVER - Covering hood

2906240

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The BRIDGE COVER covering hood is used to cover unused plugs on the CONTACTRON bridge that may subsequently be used to extend the system. The hood can be used with the screw and Push-in version of the bridge.

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