

2905151

https://www.phoenixcontact.com/us/products/2905151

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Networkable hybrid motor starter for reversing 3~ AC motors up to 500 V AC, and 0.6 A output current, with adjustable overload shutdown, emergency stop function to SIL 3/PL e and screw connection, DIN rail connector provided.

### Your advantages

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

#### Commercial data

Item number	2905151
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C478
Product key	DK7432
Catalog page	Page 24 (C-5-2019)
GTIN	4046356920322
Weight per piece (including packing)	315 g
Weight per piece (excluding packing)	282.7 g
Customs tariff number	85371098
Country of origin	DE



2905151

https://www.phoenixcontact.com/us/products/2905151

### 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	Reversing starter
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation for nominal condition	0.5 W
Switching frequency	≤ 2 Hz (Load-dependent)
Maximum power dissipation	2.5 W
Minimum power dissipation	0.88 W
Coordination type	1

#### Supply

Rated control circuit supply voltage U <sub>S</sub>	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current I <sub>S</sub>	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

Operate threshold	> 10 A
Response time	< 0.5 s

#### Input data

#### Control

Input name	Enable input
Note	The enable input is compatible with signals with blanking (semiconductor output signals with test pulse with max. 3 ms duration), unblanking pulses of max. 4 ms are tolerated without adversely affecting the safety function.



2905151

https://www.phoenixcontact.com/us/products/2905151

Rated actuating voltage $U_{\mathbb{C}}$	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Rated actuating current I <sub>C</sub>	7 mA
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
Protective circuit	Reverse polarity protection

### Output data

#### AC output

Rated operating voltage U <sub>e</sub>	500 V AC
Operating voltage range	42 V AC 550 V AC
Rated operating current I <sub>e</sub>	0.6 A (AC-51)
	0.6 A (AC-53a)
Mains frequency	50/60 Hz
Load current range	75 mA 600 mA (see to derating)
Trigger characteristic in acc. with IEC 60947-4-2	Class 10
Cooling time	20 min (for auto reset)
Leakage current	0 mA
Protective circuit	Surge protection; Varistor

#### 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 <sub>r</sub> in 7 lb <sub>r</sub> in.

#### Load circuit

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 <sub>F</sub> in 7 lb <sub>F</sub> in.

#### Signaling



2905151

https://www.phoenixcontact.com/us/products/2905151

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED
ensions	
Width	22.5 mm
Height	107 mm
Depth	114 mm
terial specifications	
Flammability rating according to UL 94	V0 (Housing)
vironmental 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
Certificate	UKCA-compliant
ATEX	
Identification	⑤ II (2) G [Ex eb] [Ex db] [Ex pxb]
Certificate	PTB 15 ATEX 3000
JL approval	
Certificate	NLDX.E228652
	NRNT.E172140
Safety Integrity Level (SIL, IEC 61508)	
Identification	≤ 3
Note	Safe shutdown
Safety Integrity Level (SIL, IEC 61508)	
Identification	2
Note	Motor protection
Performance Level (ISO 13849)	
Identification	е
Note	Safe shutdown
Category (ISO 13849)	
Category (ISO 13849)  Identification	≤ 3



2905151

https://www.phoenixcontact.com/us/products/2905151

Note	Safe shutdown
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	0.6 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

### Standards and regulations

#### Standards/regulations

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

#### Mounting

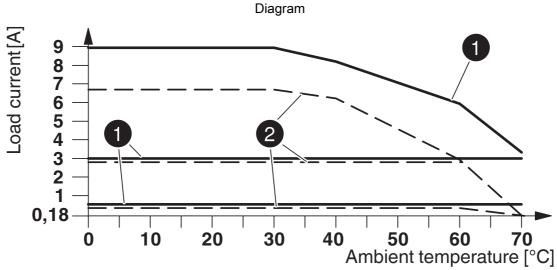
Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)



2905151

https://www.phoenixcontact.com/us/products/2905151

### Drawings

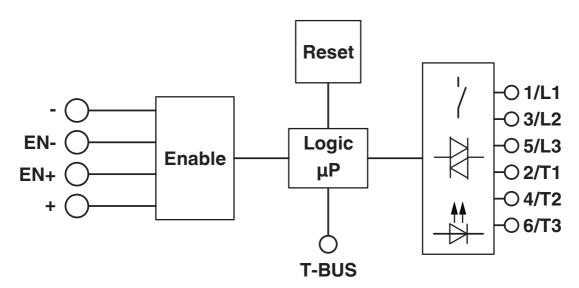


1 = aligned with > 20 mm spacing

2 = aligned without spacing

Derating diagram

#### Block diagram





2905151

https://www.phoenixcontact.com/us/products/2905151

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905151



EAC

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



**UL Listed** 

Approval ID: FILE E 172140



CCC

Approval ID: 2016010304900298



cUL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: E228652



**UL Listed** 

Approval ID: E228652



CCC

Approval ID: 2024010304672814



**ATEX** 

Approval ID: PTB 15 ATEX 3000



2905151

https://www.phoenixcontact.com/us/products/2905151

### Classifications

<b>ECLAS</b>	S
--------------	---

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



2905151

https://www.phoenixcontact.com/us/products/2905151

### 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	60e8436d-b545-480f-b018-cc91af116c2b

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com