CSS 1.5-1/3-EMC - Speed starter

1201642

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CRA-READY



Speed starter with soft start and configurable speed for starting and reversing motors up to 230 V AC and 1.5 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, single-phase load input, with integrated EMC filter

Commercial data

Item number	1201642
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C473
Product key	DK7312
GTIN	4063151264994
Weight per piece (excluding packing)	1,511 g
Customs tariff number	85371098
Country of origin	CN

Technical data

Notes

Note on application

Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Product properties

Product type	Speed starter
Product family	CONTACTRON
Operating elements	Push button
	Rotary switch

Insulation characteristics

Pollution degree	2

Electrical properties

Number of phases	1

Input data

Mains

Number of phases	1
Input voltage	230 V AC
	240 V AC
Input voltage range	110 V AC ... 240 V AC -15 % ... +10 %
Frequency range	47 Hz ... 63 Hz
Nominal current	15.8 A (no line reactor)
	14.5 A (with line reactor)

Output data

Nominal motor power	1.5 kW
Apparent power	3 kVA
Nominal output current (I_N)	7.5 A (4 kHz)
	6.2 A (8 kHz)
	4.1 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	69 W (2 kHz)
	75 W (4 kHz)
	71 W (8 kHz)
	67 W (16 kHz)
	9 W (stand by)
	≤ 11.25 A (180 s)

Output current	≤ 5.625 A (180 s, during recovery time)
	≤ 13.5 A (15 s)
	≤ 3.75 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)
	3 s (15 s)
Discharge time	3 min (Intermediate circuit capacitors)

Switching

Output name	Relay output
Contact switching type	1 changeover contact
Maximum switching voltage	125 V AC
	30 V DC
Maximum inrush current	3 A
Inrush current, minimum	10 mA (5 V DC)

Connection data

Power-level terminals

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm² ... 6 mm²
Conductor cross-section flexible	0.2 mm² ... 6 mm²
	0.2 mm² ... 4 mm² (with ferrule)
Conductor cross-section AWG	24 ... 10

Control terminals

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
	0.2 mm² ... 0.75 mm² (with ferrule)
Conductor cross-section AWG	24 ... 16

Dimensions

Item dimensions

Width	45 mm
Height	210 mm
Depth	210 mm
Length (C2)	≤ 20 m (Motor cable length (EMC compliance category C2))
Length (C3)	≤ 20 m (Motor cable length (EMC compliance category C3))
Length (no EMC compliance)	≤ 50 m (Motor cable length (no EMC compliance))

Drill hole

Diameter	5.5 mm

Material specifications

Color	gray (RAL 7042)

Environmental and real-life conditions

Ambient conditions

Degree of protection (IP)	IP20
Degree of protection (NEMA)	NEMA 1
Ambient temperature (operation)	-20 °C ... 55 °C (without current derating)
	-20 °C ... 60 °C (with linear current derating)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Altitude	≤ 2000 m
	> 2000 m (with derating)
Permissible humidity (operation)	90 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)
Shock (operation)	15g, 11 ms
Vibration (operation)	0.075 mm/1g
Air pressure (operation)	86 kPa ... 106 kPa
Air pressure (storage/transport)	70 kPa ... 106 kPa

Approvals

Safety Integrity Level (SIL, IEC 61800-5-2)

Identification	3

Performance Level (EN ISO 13849)

Identification	e

Category (ISO 13849)

Identification	4

Standards and regulations

Standards/regulations	IEC 61800-5-1
	IEC 61800-3

Mounting

Mounting type	DIN rail mounting
	Panel mounting

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1201642

UL Listed
Approval ID: FILE E 322526

cUL Listed
Approval ID: FILE E 322526

Functional Safety
Approval ID: 01/205/5866.01/23

Functional Safety
Approval ID: 968/FSP 1144.04/23

cULus Listed
Approval ID: V1S1

Classifications

ECLASS

ECLASS-13.0	27142320
ECLASS-15.0	27142320
ECLASS-15.0 ASSET	27250101

ETIM

ETIM 10.0	EC000256

UNSPSC

UNSPSC 21.0	26111500

Environmental product compliance

EU RoHS

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

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
	Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: 143-24-8)
SCIP	1abb8349-f015-497b-ba53-056c93c525a0

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