CSS 0.75-1/3 - Speed starter

1201509

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Speed starter with soft start and configurable speed for starting and reversing motors up to 230 V AC and 0.75 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, single-phase load input

Commercial data

Item number	1201509
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C473
Product key	DK7311
GTIN	4063151265373
Weight per piece (excluding packing)	1,497 g
Customs tariff number	85371098
Country of origin	CN

Technical data

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	9.1 A (no line reactor)
	8.3 A (with line reactor)

Output data

Nominal motor power	0.75 kW
Apparent power	1.7 kVA
Nominal output current (I_N)	4.3 A (4 kHz)
	3.5 A (8 kHz)
	2.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	37 W (2 kHz)
	42 W (4 kHz)
	40 W (8 kHz)
	38 W (16 kHz)
	9 W (stand by)
Output current	≤ 6.45 A (180 s)
	≤ 3.225 A (180 s, during recovery time)
	≤ 7.74 A (15 s)
	≤ 2.15 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 (with ferrule)
Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
	0.2 mm² ... 0.75 mm²
Conductor cross-section AWG	24 ... 16

Dimensions

Drill hole

Diameter	5.5 mm
Width	45 mm
Height	210 mm
Depth	190 mm
Length	≤ 50 m (EMC compliance category C2)
	≤ 50 m (EMC compliance category C3)
	≤ 50 m (no EMC compliance)

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/1201509

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: 01/205/5866.01/23

Functional Safety
Approval ID: Reg01/205/5866.01/23

Functional Safety
Approval ID: Reg01/205/5866.01/23

Functional Safety
Approval ID: 968/FSP 1144.04/23

cULus Listed
Approval ID: E322526V1S1

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	2afee217-364a-4297-9034-797468811b37

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