

# CSS 1.5-3/3 - Speed starter



1201650

<https://www.phoenixcontact.com/us/products/1201650>

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 1.5 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, three-phase load input

## Commercial data

Item number	1201650
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C473
Product key	DK7322
GTIN	4063151266011
Weight per piece (including packing)	1,269 g
Weight per piece (excluding packing)	911 g
Customs tariff number	85371098
Country of origin	CN

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## Technical data

### Product properties

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

### Insulation characteristics

Pollution degree	2
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### Electrical properties

Number of phases	3
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### Input data

#### Mains

Number of phases	3
Input voltage	380 V AC
	400 V AC
	480 V AC
Input voltage range	220 V AC ... 480 V AC -15 % ... +10 %
Frequency range	47 Hz ... 63 Hz
Nominal current	4.2 A (no line reactor)
	3.8 A (with line reactor)

### Output data

Nominal motor power	1.5 kW
Apparent power	2.7 kVA
Nominal output current ( $I_N$ )	3.9 A (4 kHz)
	2.8 A (8 kHz)
	1.6 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	50 W (2 kHz)
	58 W (4 kHz)
	55 W (8 kHz)
	53 W (16 kHz)
	9 W (stand by)
Output current	≤ 5.85 A (180 s)
	≤ 2.925 A (180 s, during recovery time)
	≤ 7.02 A (15 s)
	≤ 1.95 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)

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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 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> (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 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
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 (Motor cable length (EMC compliance category C2))
	≤ 50 m (Motor cable length (EMC compliance category C3))
	≤ 50 m (Motor cable length (no EMC compliance))

## Material specifications

Color	gray (RAL 7042)
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## Environmental and real-life conditions

### Ambient conditions

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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
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### Performance Level (EN ISO 13849)

Identification	e
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### Category (ISO 13849)

Identification	4
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## Standards and regulations

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

## Mounting

Mounting type	DIN rail mounting
	Panel mounting

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1201650>



### UL Listed

Approval ID: FILE E 322526



### cUL Listed

Approval ID: FILE E 322526



### Functional Safety

Approval ID: 01/205/5866.01/23



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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

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## Classifications

### ECLASS

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

### ETIM

ETIM 10.0	EC000256
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### UNSPSC

UNSPSC 21.0	26111500
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## 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	153543d4-18ac-437a-9f95-4787af252e64

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