# CSS 1.5-3/3 - Speed starter

1201650

https://www.phoenixcontact.com/gb/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 | DK7322 |
| 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 |

## 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 | 3 |

### 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) |

| | |
|---|---|
| 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 | 190 mm |
| Length (C2) | ≤ 50 m (Motor cable length (EMC compliance category C2)) |
| Length (C3) | ≤ 50 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/gb/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

**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 | 153543d4-18ac-437a-9f95-4787af252e64 |


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