# CSS 0.75-1/3-EMC - Speed starter

1201613

https://www.phoenixcontact.com/us/products/1201613

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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 0.75 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 | 1201613 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C473 |
| Product key | DK7311 |
| GTIN | 4063151265779 |
| Weight per piece (excluding packing) | 1,475 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 | 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 | 38 W (2 kHz) |
| | 43 W (4 kHz) |
| | 41 W (8 kHz) |
| | 39 W (16 kHz) |
| | 9 W (stand by) |
| | ≤ 6.45 A (180 s) |

| | |
|---|---|
| Output current | ≤ 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 |
| 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/1201613

**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: 01/205/5866.02/26

**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

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|---|---|
| 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 | 740b3f41-d5d3-4e65-ab76-0ad697dae4c4 |


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