

# CSS 0.25-3/3 - Speed starter



1201679

<https://www.phoenixcontact.com/us/products/1201679>

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.25 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, three-phase load input

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1201679       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C473          |
| Product key                          | CK7321        |
| GTIN                                 | 4063151265618 |
| Weight per piece (including packing) | 1,207 g       |
| Weight per piece (excluding packing) | 1,237 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 |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### 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     | 1 A (no line reactor)                 |
|                     | 0.9 A (with line reactor)             |

### Output data

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Nominal motor power              | 0.25 kW                                      |
| Apparent power                   | 0.6 kVA                                      |
| Nominal output current ( $I_N$ ) | 0.9 A (4 kHz)                                |
|                                  | 0.6 A (8 kHz)                                |
|                                  | 0.4 A (16 kHz)                               |
| Output frequency                 | 0 Hz ... 500 Hz                              |
| Power dissipation                | 14 W (2 kHz)                                 |
|                                  | 18 W (4 kHz)                                 |
|                                  | 18 W (8 kHz)                                 |
|                                  | 17 W (16 kHz)                                |
|                                  | 9 W (stand by)                               |
| Output current                   | $\leq 1.35$ A (180 s)                        |
|                                  | $\leq 0.675$ A (180 s, during recovery time) |
|                                  | $\leq 1.62$ A (15 s)                         |
|                                  | $\leq 0.45$ A (15 s, during recovery time)   |

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|                |                                         |
|----------------|-----------------------------------------|
| 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 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    | 35 mm                                                    |
| Height   | 210 mm                                                   |
| Depth    | 175 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

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| 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 |
|               | Wall mounting     |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1201679>



**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

**cULus Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27142320 |
| ECLASS-13.0 | 27142320 |
| ECLASS-12.0 | 27142320 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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                                    | e271c38a-0511-4008-b62b-e2757b7e0caf                                                                                                                                                                                              |