

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



1201613

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

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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, 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 (including packing) | 1,445 g       |
| Weight per piece (excluding packing) | 1,475 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 |
|------------------|---|

### 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)                               |
|                                  | 0 Hz ... 500 Hz                              |
| 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)                               |
| Output current                   | $\leq 6.45$ A (180 s)                        |
|                                  | $\leq 3.225$ A (180 s, during recovery time) |
|                                  | $\leq 7.74$ A (15 s)                         |
|                                  | $\leq 2.15$ A (15 s, during recovery time)   |
| Recovery time                    | 150 s (180 s)                                |
|                                  | 12 s (15 s)                                  |
| Overload time                    | 30 s (180 s)                                 |

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|                |                                         |
|----------------|-----------------------------------------|
|                | 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    | 210 mm                                                   |
| Length   | ≤ 20 m (Motor cable length (EMC compliance category C2)) |
|          | ≤ 20 m (Motor cable length (EMC compliance category C3)) |
|          | ≤ 50 m (Motor cable length (no EMC compliance))          |

## Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                           |      |
|---------------------------|------|
| Degree of protection (IP) | IP20 |
|---------------------------|------|

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|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| 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    |

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## 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



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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

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## Classifications

### ECLASS

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

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