

# CSS 1.5-1/3 - Speed starter



1201511

<https://www.phoenixcontact.com/us/products/1201511>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Speed starter with soft start and configurable speed for starting and reversing motors up to 230 V AC and 1.5 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, single-phase load input

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1201511       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C473          |
| Product key                          | DK7312        |
| GTIN                                 | 4063151265700 |
| Weight per piece (including packing) | 1,340 g       |
| Weight per piece (excluding packing) | 1,340 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 | 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     | 15.8 A (no line reactor)              |
|                     | 14.5 A (with line reactor)            |

### Output data

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Nominal motor power              | 1.5 kW                                       |
| Apparent power                   | 3 kVA                                        |
| Nominal output current ( $I_N$ ) | 7.5 A (4 kHz)                                |
|                                  | 6.2 A (8 kHz)                                |
|                                  | 4.1 A (16 kHz)                               |
|                                  | 0 Hz ... 500 Hz                              |
| Output frequency                 | 0 Hz ... 500 Hz                              |
| Power dissipation                | 67 W (2 kHz)                                 |
|                                  | 74 W (4 kHz)                                 |
|                                  | 70 W (8 kHz)                                 |
|                                  | 66 W (16 kHz)                                |
|                                  | 9 W (stand by)                               |
| Output current                   | $\leq 11.25$ A (180 s)                       |
|                                  | $\leq 5.625$ A (180 s, during recovery time) |
|                                  | $\leq 13.5$ A (15 s)                         |
|                                  | $\leq 3.75$ A (15 s, during recovery time)   |
| Recovery time                    | 150 s (180 s)                                |
|                                  | 12 s (15 s)                                  |
| Overload time                    | 30 s (180 s)                                 |

# CSS 1.5-1/3 - Speed starter



1201511

<https://www.phoenixcontact.com/us/products/1201511>

|                |                                         |
|----------------|-----------------------------------------|
|                | 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 (EMC compliance category C2) |
|          | ≤ 50 m (EMC compliance category C3) |
|          | ≤ 50 m (no EMC compliance)          |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

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

# CSS 1.5-1/3 - Speed starter



1201511

<https://www.phoenixcontact.com/us/products/1201511>

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

# CSS 1.5-1/3 - Speed starter



1201511

<https://www.phoenixcontact.com/us/products/1201511>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1201511>

 **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: 01/205/5866.01/23

 **Functional Safety**  
Approval ID: 01/205/5866.01/23

 **Functional Safety**  
Approval ID: Reg01/205/5866.01/23

 **cUL Listed**  
Approval ID: FILE E 322526

 **UL Listed**  
Approval ID: FILE E 322526

 **Functional Safety**  
Approval ID: Reg01/205/5866.01/23

 **Functional Safety**  
Approval ID: Reg01/205/5866.01/23

# CSS 1.5-1/3 - Speed starter



1201511

<https://www.phoenixcontact.com/us/products/1201511>



## Functional Safety

Approval ID: Reg01/205/5866.01/23



## Functional Safety

Approval ID: 968/FSP 1144.04/23



## Functional Safety

Approval ID: 968/FSP 1144.04/23

# CSS 1.5-1/3 - Speed starter

1201511

<https://www.phoenixcontact.com/us/products/1201511>



## 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                                | 70312783-fae6-4d56-9ded-93b580390144              |