

# Speed starter - CSS 0.25-3/3-EMC - 1201713

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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, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input, with integrated EMC filter



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4063151265786 |

## Technical data

### Dimensions

|        |  |
|--------|--|
| Width  | 35 mm  |
| Height | 210 mm   |
| Depth  | 195 mm   |
| Length | ≤ 30 m (Motor cable length (EMC compliance category C3)) |
|        | ≤ 50 m (Motor cable length (no EMC compliance))          |

### Ambient conditions

|  |   |
|--|---|
| 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                                |
| Maximum altitude                         | ≤ 2000 m  |
|  | > 2000 m (with derating)                        |
| Permissible humidity (operation)         | 90 % (non-condensing)                           |
| Permissible humidity (storage/transport) | 95 % (non-condensing)                           |
| Degree of protection                     | IP20  |
|  | NEMA 1  |
| Vibration (operation)                    | 0,075 mm / 1g                                   |
| Shock (operation)                        | 15g, 11 ms                                      |

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## Technical data

### Input

|                     |                                       |
|---------------------|---------------------------------------|
| Designation         | 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

|  |  |
|--|--|
| Nominal motor power                      | 0.25 kW                                  |
| Apparent power                           | 0.6 kVA                                  |
| Nominal output current (I <sub>N</sub> ) | 0.9 A (4 kHz)                            |
|  | 0.6 A (8 kHz)                            |
|  | 0.4 A (16 kHz)                           |
| Output frequency                         | 0 Hz ... 500 Hz                          |
| Power dissipation                        | 16 W (2 kHz)                             |
|  | 20 W (4 kHz)                             |
|  | 19 W (8 kHz)                             |
|  | 19 W (16 kHz)                            |
|  | 9 W (stand by)                           |
| Output current                           | ≤ 1.35 A (180 s)                         |
|  | ≤ 0.675 A (180 s, during recovery time)  |
|  | ≤ 1.62 A (15 s)                          |
|  | ≤ 0.45 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) |

### General

|                    |     |
|--------------------|-----|
| Cooling            | Fan |
| EMC filter present | yes |
| Number of phases   | 3   |

### Standards and Regulations

|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 61800-5-1 |
|                       | IEC 61800-3   |
| Pollution degree      | 2             |
| Vibration (operation) | 0,075 mm / 1g |

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## Technical data

### Standards and Regulations

|                   |            |
|-------------------|------------|
| Shock (operation) | 15g, 11 ms |
|-------------------|------------|

### Conformance/approvals

|                |   |
|----------------|---|
| Designation    | Safety Integrity Level (SIL, IEC 61800-5-2) |
| Identification | 3   |
| Designation    | Performance Level (EN ISO 13849)            |
| Identification | e   |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 25;   |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|             |          |
|-------------|----------|
| eCl@ss 11.0 | 27142320 |
| eCl@ss 9.0  | 27142320 |

### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC000256 |
|----------|----------|

## Approvals


### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

### Approval details

|           |   |   |               |
|-----------|---|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 322526 |
|-----------|---|---|---------------|

|            |   |   |               |
|------------|---|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 322526 |
|------------|---|---|---------------|

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## Approvals

cULus Listed



## Accessories

### Accessories

#### Assembly adapter

Power distribution board - EM-CPS-225 - 1002634



Modular power distribution board with CrossLink® interface, 125 A, 3-pos., touch-proof and protection against polarity reversal, width: 225 mm

Power distribution board - EM-CPS-405 - 1002635



Modular power distribution board with CrossLink® interface, 125 A, 3-pos., touch-proof and protection against polarity reversal, width: 405 mm

Connection module - EM-CPS-TB3/63A - 1002633



Connection module with integrated spring-loaded terminals for cables from 1.5 to 16 mm<sup>2</sup>, 3-pos., maximum 63 A

Connection module - EM-CPS-TB3/125A - 1070299



Connection module with box terminals for conductors from 6 to 50 mm<sup>2</sup>, 3-pos., maximum 125 A

## Fan

## Speed starter - CSS 0.25-3/3-EMC - 1201713

### Accessories

Fan - EM-CSS-FAN-35 - 1276911



Replaceable fan for 35 mm wide CONTACTRON Speed Starters

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### Shroud

Shield connection - EM-CSS-MOTORSHIELD-35 - 1276914



Shroud for motor lines for 35 mm wide CONTACTRON Speed Starters

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Shield connection - EM-CSS-CONTROLSHIELD-35 - 1276904



Shroud for control lines for 35 mm wide CONTACTRON Speed Starters

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>