

CSS 1.5-3/3-EMC - Speed starter



1201696

<https://www.phoenixcontact.com/us/products/1201696>

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 1.5 kW, configurable motor protection, analog input, STO function up to SIL 3/PL e, three-phase load input, with integrated EMC filter

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1201696 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C473 |
| Product key | DK7322 |
| GTIN | 4063151265625 |
| Weight per piece (including packing) | 1,440 g |
| Weight per piece (excluding packing) | 1,466 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 | 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 | 4.2 A (no line reactor) |
| | 3.8 A (with line reactor) |

Output data

| | |
|----------------------------------|--|
| Nominal motor power | 1.5 kW |
| Apparent power | 2.7 kVA |
| Nominal output current (I_N) | 3.9 A (4 kHz) |
| | 2.8 A (8 kHz) |
| | 1.6 A (16 kHz) |
| Output frequency | 0 Hz ... 500 Hz |
| Power dissipation | 51 W (2 kHz) |
| | 59 W (4 kHz) |
| | 56 W (8 kHz) |
| | 54 W (16 kHz) |
| | 9 W (stand by) |
| Output current | ≤ 5.85 A (180 s) |
| | ≤ 2.925 A (180 s, during recovery time) |
| | ≤ 7.02 A (15 s) |
| | ≤ 1.95 A (15 s, during recovery time) |
| Recovery time | 150 s (180 s) |
| | 12 s (15 s) |

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| | |
|----------------|---|
| 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 ² ... 6 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 6 mm ² |
| | 0.2 mm ² ... 4 mm ² (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 ² ... 1.5 mm ² (with ferrule) |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² |
| | 0.2 mm ² ... 0.75 mm ² |
| Conductor cross-section AWG | 24 ... 16 |

Dimensions

Drill hole

| | |
|----------|--|
| Diameter | 5.5 mm |
| Width | 45 mm |
| Height | 210 mm |
| Depth | 210 mm |
| Length | ≤ 30 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/1201696>



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



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 10.0 | EC000256 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26111500 |
|-------------|----------|

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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 | 6bd5f88d-e850-435e-b5c4-694c2335badf |

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