

## Speed starter - CSS 1.5-3/3-EMC - 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, 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	4063151265625

### Technical data

#### Dimensions

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))

#### 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	4.2 A (no line reactor)
	3.8 A (with line reactor)

### Output

Nominal motor power	1.5 kW
Apparent power	2.7 kVA
Nominal output current (I <sub>N</sub> )	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)
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
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### 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
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## 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
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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<sup>®</sup> 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<sup>®</sup> 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 1.5-3/3-EMC - 1201696

### Accessories

Fan - EM-CSS-FAN-45 - 1276912



Replaceable fan for 45 mm wide CONTACTRON Speed Starters

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### Shroud

Shield connection - EM-CSS-MOTORSHIELD-45 - 1276916



Shroud for motor lines for 45 mm wide CONTACTRON Speed Starters

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Shield connection - EM-CSS-CONTROLSHIELD-45 - 1276909



Shroud for control lines for 45 mm wide CONTACTRON Speed Starters

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