

CSS 1.5-1/3-EMC - Speed starter



1201642

<https://www.phoenixcontact.com/us/products/1201642>

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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, with integrated EMC filter

Commercial data

Item number	1201642
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C473
Product key	CK7312
GTIN	4063151264994
Weight per piece (including packing)	1,511.2 g
Weight per piece (excluding packing)	1,511 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

Data management status

Article revision	03
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Insulation characteristics

Pollution degree	2
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Electrical properties

Number of phases	1
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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)
Output frequency	0 Hz ... 500 Hz
Power dissipation	69 W (2 kHz)
	75 W (4 kHz)
	71 W (8 kHz)
	67 W (16 kHz)
	9 W (stand by)
Output current	≤ 11.25 A (180 s)
	≤ 5.625 A (180 s, during recovery time)
	≤ 13.5 A (15 s)
	≤ 3.75 A (15 s, during recovery time)
Recovery time	150 s (180 s)

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Overload time	12 s (15 s)
	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	≤ 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)
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Environmental and real-life conditions

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Ambient conditions

Degree of protection (IP)	IP20
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
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Performance Level (EN ISO 13849)

Identification	e
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Category (ISO 13849)

Identification	4
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Standards and regulations

Standards/regulations	IEC 61800-5-1
	IEC 61800-3

Mounting

Mounting type	DIN rail mounting
	Wall mounting

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1201642>



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

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27142320
ECLASS-13.0	27142320
ECLASS-12.0	27142320

ETIM

ETIM 9.0	EC000256
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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	1abb8349-f015-497b-ba53-056c93c525a0

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Accessories

EM-CSS-MOTORSHIELD-45 - Shield connection

1276916

<https://www.phoenixcontact.com/us/products/1276916>

Shroud for motor lines for 45 mm wide CONTACTRON Speed Starters



EM-CPS-DA-45C-CSS - Adapter

1282859

<https://www.phoenixcontact.com/us/products/1282859>



Adapter for CONTACTRON Speed Starter for direct mounting on the CrossPowerSystem power distribution board

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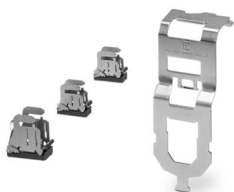
<https://www.phoenixcontact.com/us/products/1201642>



EM-CSS-SHIELDING-SET-SCC-45 - Shield connection

1451208

<https://www.phoenixcontact.com/us/products/1451208>



Accessories set for simple and reliable connection of cable shields to the CONTACTRON Speed Starter, consisting of a 45 mm shroud, 2 shield connection terminal blocks for the signal lines, and one shield connection terminal block for the motor cable.

EM-CPS-225 - Power distribution board

1002634

<https://www.phoenixcontact.com/us/products/1002634>



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

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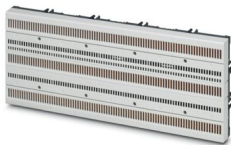


EM-CPS-405 - Power distribution board

1002635

<https://www.phoenixcontact.com/us/products/1002635>

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



EM-CPS-TB3/63A - Connection module

1002633

<https://www.phoenixcontact.com/us/products/1002633>

Connection module with integrated spring-loaded terminals for cables from 1.5 to 16 mm², 3-pos., maximum 63 A



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EM-CPS-TB3/125A - Connection module

1070299

<https://www.phoenixcontact.com/us/products/1070299>



Connection module with box terminals for conductors from 6 to 50 mm², 3-pos., maximum 125 A

EM-CSS-CONTROLSHIELD-45 - Shield connection

1276909

<https://www.phoenixcontact.com/us/products/1276909>



Shroud for control lines for 45 mm wide CONTACTRON Speed Starters

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EM-CSS-FAN-45 - Fan

1276912

<https://www.phoenixcontact.com/us/products/1276912>

Replaceable fan for 45 mm wide CONTACTRON Speed Starters



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