

Speed starter - CSS 0.25-1/3 - 1201132

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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, single-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 263966
GTIN	4063151263966
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 0.25-1/3 - 1201132

Technical data

Ambient conditions

	> 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

Input

Designation	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	3.5 A (no line reactor)
	3.3 A (with line reactor)

Output

Nominal motor power	0.25 kW
Apparent power	0.7 kVA
Nominal output current (I_N)	1.7 A (4 kHz)
	1.4 A (8 kHz)
	0.9 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	18 W (2 kHz)
	21 W (4 kHz)
	20 W (8 kHz)
	19 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.55 A (180 s)
	≤ 1.275 A (180 s, during recovery time)
	≤ 3.06 A (15 s)
	≤ 0.85 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)

Speed starter - CSS 0.25-1/3 - 1201132

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Heatsink
EMC filter present	No
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.37-1/3 - 1201135

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.37 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 263454
GTIN	4063151263454
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 mm
Length	≤ 50 m (EMC compliance category C2)
	≤ 50 m (EMC compliance category C3)
	≤ 50 m (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

Speed starter - CSS 0.37-1/3 - 1201135

Technical data

Ambient conditions

	> 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

Input

Designation	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	5.3 A (no line reactor)
	4.8 A (with line reactor)

Output

Nominal motor power	0.37 kW
Apparent power	1 kVA
Nominal output current (I_N)	2.5 A (4 kHz)
	2.1 A (8 kHz)
	1.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	22 W (2 kHz)
	26 W (4 kHz)
	24 W (8 kHz)
	23 W (16 kHz)
	9 W (stand by)
Output current	≤ 3.75 A (180 s)
	≤ 1.875 A (180 s, during recovery time)
	≤ 4.5 A (15 s)
	≤ 1.25 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)

Speed starter - CSS 0.37-1/3 - 1201135

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Heatsink
EMC filter present	No
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.55-1/3 - 1201494

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.55 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265199
GTIN	4063151265199
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 mm
Length	≤ 50 m (EMC compliance category C2)
	≤ 50 m (EMC compliance category C3)
	≤ 50 m (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

Speed starter - CSS 0.55-1/3 - 1201494

Technical data

Ambient conditions

	> 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

Input

Designation	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	6.7 A (no line reactor)
	6.2 A (with line reactor)

Output

Nominal motor power	0.55 kW
Apparent power	1.3 kVA
Nominal output current (I_N)	3.2 A (4 kHz)
	2.6 A (8 kHz)
	1.8 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	29 W (2 kHz)
	33 W (4 kHz)
	32 W (8 kHz)
	30 W (16 kHz)
	9 W (stand by)
Output current	≤ 4.8 A (180 s)
	≤ 2.4 A (180 s, during recovery time)
	≤ 5.76 A (15 s)
	≤ 1.6 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)

Speed starter - CSS 0.55-1/3 - 1201494

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Heatsink
EMC filter present	No
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.75-1/3 - 1201509

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.75 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265373
GTIN	4063151265373
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 mm
Length	≤ 50 m (EMC compliance category C2)
	≤ 50 m (EMC compliance category C3)
	≤ 50 m (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

Speed starter - CSS 0.75-1/3 - 1201509

Technical data

Ambient conditions

	> 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

Input

Designation	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	9.1 A (no line reactor)
	8.3 A (with line reactor)

Output

Nominal motor power	0.75 kW
Apparent power	1.7 kVA
Nominal output current (I_N)	4.3 A (4 kHz)
	3.5 A (8 kHz)
	2.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	37 W (2 kHz)
	42 W (4 kHz)
	40 W (8 kHz)
	38 W (16 kHz)
	9 W (stand by)
Output current	≤ 6.45 A (180 s)
	≤ 3.225 A (180 s, during recovery time)
	≤ 7.74 A (15 s)
	≤ 2.15 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)

Speed starter - CSS 0.75-1/3 - 1201509

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Heatsink
EMC filter present	No
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 1.5-1/3 - 1201511

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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, single-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265700
GTIN	4063151265700
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 mm
Length	≤ 50 m (EMC compliance category C2)
	≤ 50 m (EMC compliance category C3)
	≤ 50 m (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

Speed starter - CSS 1.5-1/3 - 1201511

Technical data

Ambient conditions

	> 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

Input

Designation	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

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	67 W (2 kHz)
	74 W (4 kHz)
	70 W (8 kHz)
	66 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)
	12 s (15 s)
Overload time	30 s (180 s)
	3 s (15 s)

Speed starter - CSS 1.5-1/3 - 1201511

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Fan
EMC filter present	No
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.25-1/3-EMC - 1201520

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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, single-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265236
GTIN	4063151265236
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 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))

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

Speed starter - CSS 0.25-1/3-EMC - 1201520

Technical data

Ambient conditions

	> 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

Input

Designation	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	3.5 A (no line reactor)
	3.3 A (with line reactor)

Output

Nominal motor power	0.25 kW
Apparent power	0.7 kVA
Nominal output current (I_N)	1.7 A (4 kHz)
	1.4 A (8 kHz)
	0.9 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	20 W (2 kHz)
	23 W (4 kHz)
	22 W (8 kHz)
	21 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.55 A (180 s)
	≤ 1.275 A (180 s, during recovery time)
	≤ 3.06 A (15 s)
	≤ 0.85 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)

Speed starter - CSS 0.25-1/3-EMC - 1201520

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Fan
EMC filter present	yes
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.37-1/3-EMC - 1201600

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.37 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265915
GTIN	4063151265915
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 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))

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

Speed starter - CSS 0.37-1/3-EMC - 1201600

Technical data

Ambient conditions

	> 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

Input

Designation	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	5.3 A (no line reactor)
	4.8 A (with line reactor)

Output

Nominal motor power	0.37 kW
Apparent power	1 kVA
Nominal output current (I_N)	2.5 A (4 kHz)
	2.1 A (8 kHz)
	1.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	24 W (2 kHz)
	27 W (4 kHz)
	26 W (8 kHz)
	25 W (16 kHz)
	9 W (stand by)
Output current	≤ 3.75 A (180 s)
	≤ 1.875 A (180 s, during recovery time)
	≤ 4.5 A (15 s)
	≤ 1.25 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)

Speed starter - CSS 0.37-1/3-EMC - 1201600

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Fan
EMC filter present	yes
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.55-1/3-EMC - 1201602

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.55 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265571
GTIN	4063151265571
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 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))

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

Speed starter - CSS 0.55-1/3-EMC - 1201602

Technical data

Ambient conditions

	> 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

Input

Designation	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	6.7 A (no line reactor)
	6.2 A (with line reactor)

Output

Nominal motor power	0.55 kW
Apparent power	1.3 kVA
Nominal output current (I_N)	3.2 A (4 kHz)
	2.6 A (8 kHz)
	1.8 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	31 W (2 kHz)
	35 W (4 kHz)
	33 W (8 kHz)
	32 W (16 kHz)
	9 W (stand by)
Output current	≤ 4.8 A (180 s)
	≤ 2.4 A (180 s, during recovery time)
	≤ 5.76 A (15 s)
	≤ 1.6 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)

Speed starter - CSS 0.55-1/3-EMC - 1201602

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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General

Cooling	Fan
EMC filter present	yes
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 0.75-1/3-EMC - 1201613


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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.75 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, single-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265779
GTIN	4063151265779
Weight per Piece (excluding packing)	1,460.000 g
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 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))

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

Speed starter - CSS 0.75-1/3-EMC - 1201613

Technical data

Ambient conditions

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

Input

Designation	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	9.1 A (no line reactor)
	8.3 A (with line reactor)

Output

Nominal motor power	0.75 kW
Apparent power	1.7 kVA
Nominal output current (I _N)	4.3 A (4 kHz)
	3.5 A (8 kHz)
	2.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	38 W (2 kHz)
	43 W (4 kHz)
	41 W (8 kHz)
	39 W (16 kHz)
	9 W (stand by)
Output current	≤ 6.45 A (180 s)
	≤ 3.225 A (180 s, during recovery time)
	≤ 7.74 A (15 s)
	≤ 2.15 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 0.75-1/3-EMC - 1201613

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Fan
EMC filter present	yes
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 1.5-1/3-EMC - 1201642


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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, single-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 264994
GTIN	4063151264994
Weight per Piece (excluding packing)	1,520.000 g
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 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))

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

Speed starter - CSS 1.5-1/3-EMC - 1201642

Technical data

Ambient conditions

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

Input

Designation	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

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)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 1.5-1/3-EMC - 1201642

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Fan
EMC filter present	yes
Number of phases	1

Standards and Regulations

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

Speed starter - CSS 1.5-3/3 - 1201650

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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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 266011
GTIN	4063151266011
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 1.5-3/3 - 1201650

Technical data

Ambient conditions

	> 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

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 W
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	50 W (2 kHz)
	58 W (4 kHz)
	55 W (8 kHz)
	53 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)

Speed starter - CSS 1.5-3/3 - 1201650

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Fan
EMC filter present	No
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
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"

Speed starter - CSS 0.25-3/3 - 1201679

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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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265618
GTIN	4063151265618
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 0.25-3/3 - 1201679

Technical data

Ambient conditions

	> 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

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 W
Apparent power	0.6 kVA
Nominal output current (I_N)	0.9 A (4 kHz)
	0.6 A (8 kHz)
	0.4 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	14 W (2 kHz)
	18 W (4 kHz)
	18 W (8 kHz)
	17 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)

Speed starter - CSS 0.25-3/3 - 1201679

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Heatsink
EMC filter present	No
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
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"

Speed starter - CSS 0.37-3/3 - 1201683

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.37 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265380
GTIN	4063151265380
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 0.37-3/3 - 1201683

Technical data

Ambient conditions

	> 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

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	1.7 A (no line reactor)
	1.5 A (with line reactor)

Output

Nominal motor power	0.37 W
Apparent power	1 kVA
Nominal output current (I_N)	1.5 A (4 kHz)
	1.1 A (8 kHz)
	0.6 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	17 W (2 kHz)
	22 W (4 kHz)
	21 W (8 kHz)
	20 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.25 A (180 s)
	≤ 1.125 A (180 s, during recovery time)
	≤ 2.7 A (15 s)
	≤ 0.75 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 0.37-3/3 - 1201683

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Heatsink
EMC filter present	No
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
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"

Speed starter - CSS 0.55-3/3 - 1201694

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.55 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265861
GTIN	4063151265861
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	174.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 0.55-3/3 - 1201694

Technical data

Ambient conditions

	> 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

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	2 A (no line reactor)
	1.8 A (with line reactor)

Output

Nominal motor power	0.55 W
Apparent power	1.2 kVA
Nominal output current (I_N)	1.8 A (4 kHz)
	1.3 A (8 kHz)
	0.7 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	22 W (2 kHz)
	27 W (4 kHz)
	26 W (8 kHz)
	25 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.7 A (180 s)
	≤ 1.35 A (180 s, during recovery time)
	≤ 3.24 A (15 s)
	≤ 0.9 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 0.55-3/3 - 1201694

Technical data

Output

	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Heatsink
EMC filter present	No
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
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"

Speed starter - CSS 0.75-3/3 - 1201695


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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.75 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 266110
GTIN	4063151266110
Weight per Piece (excluding packing)	1,400.000 g
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	189.7 mm
Length	≤ 50 m (Motor cable length (EMC compliance category C2))
	≤ 50 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

Speed starter - CSS 0.75-3/3 - 1201695

Technical data

Ambient conditions

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

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	2.8 A (no line reactor)
	2.4 A (with line reactor)

Output

Nominal motor power	0.75 W
Apparent power	1.7 kVA
Nominal output current (I _N)	2.5 A (4 kHz)
	1.8 A (8 kHz)
	1 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	28 W (2 kHz)
	34 W (4 kHz)
	32 W (8 kHz)
	31 W (16 kHz)
	9 W (stand by)
Output current	≤ 3.75 A (180 s)
	≤ 1.875 A (180 s, during recovery time)
	≤ 4.5 A (15 s)
	≤ 1.25 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)

Speed starter - CSS 0.75-3/3 - 1201695

Technical data

Output

Overload time	30 s (180 s)
	3 s (15 s)
Discharge time	3 min. (Intermediate circuit capacitors)

General

Cooling	Heatsink
EMC filter present	No
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
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"

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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265625
GTIN	4063151265625
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	45 mm
Height	210 mm
Depth	209.7 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)

Speed starter - CSS 1.5-3/3-EMC - 1201696

Technical data

Ambient conditions

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

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 W
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)
Overload time	30 s (180 s)
	3 s (15 s)

Speed starter - CSS 1.5-3/3-EMC - 1201696

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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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
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"

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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265786
GTIN	4063151265786
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	194.7 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)

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

Technical data

Ambient conditions

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

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 W
Apparent power	0.6 kVA
Nominal output current (I _N)	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)

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

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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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
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"

Speed starter - CSS 0.37-3/3-EMC - 1201825

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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.37 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265250
GTIN	4063151265250
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	194.7 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)

Speed starter - CSS 0.37-3/3-EMC - 1201825

Technical data

Ambient conditions

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

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	1.7 A (no line reactor)
	1.5 A (with line reactor)

Output

Nominal motor power	0.37 W
Apparent power	1 kVA
Nominal output current (I_N)	1.5 A (4 kHz)
	1.1 A (8 kHz)
	0.6 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	19 W (2 kHz)
	23 W (4 kHz)
	23 W (8 kHz)
	22 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.25 A (180 s)
	≤ 1.125 A (180 s, during recovery time)
	≤ 2.7 A (15 s)
	≤ 0.75 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)

Speed starter - CSS 0.37-3/3-EMC - 1201825

Technical data

Output

Discharge time	3 min. (Intermediate circuit capacitors)
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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
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"

Speed starter - CSS 0.55-3/3-EMC - 1201828


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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.55 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 266219
GTIN	4063151266219
Weight per Piece (excluding packing)	1,240.000 g
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	194.7 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

Speed starter - CSS 0.55-3/3-EMC - 1201828

Technical data

Ambient conditions

	> 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

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	2 A (no line reactor)
	1.8 A (with line reactor)

Output

Nominal motor power	0.55 W
Apparent power	1.2 kVA
Nominal output current (I_N)	1.8 A (4 kHz)
	1.3 A (8 kHz)
	0.7 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	24 W (2 kHz)
	29 W (4 kHz)
	28 W (8 kHz)
	27 W (16 kHz)
	9 W (stand by)
Output current	≤ 2.7 A (180 s)
	≤ 1.35 A (180 s, during recovery time)
	≤ 3.24 A (15 s)
	≤ 0.9 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 0.55-3/3-EMC - 1201828

Technical data

Output

	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
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"

Speed starter - CSS 0.75-3/3-EMC - 1201829


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Speed starter with soft start and configurable speed for starting and reversing motors up to 480 V AC and 0.75 kW, configurable motor protection, STO function up to SIL 3 / PL e, Push-in connection, three-phase load input, with integrated EMC filter

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 265397
GTIN	4063151265397
Weight per Piece (excluding packing)	1,260.000 g
Custom tariff number	85371098
Country of origin	Taiwan

Technical data

Dimensions

Width	35 mm
Height	210 mm
Depth	194.7 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

Speed starter - CSS 0.75-3/3-EMC - 1201829

Technical data

Ambient conditions

	> 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

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	2.8 A (no line reactor)
	2.4 A (with line reactor)

Output

Nominal motor power	0.75 W
Apparent power	1.7 kVA
Nominal output current (I_N)	2.5 A (4 kHz)
	1.8 A (8 kHz)
	1 A (16 kHz)
Output frequency	0 Hz ... 500 Hz
Power dissipation	29 W (2 kHz)
	36 W (4 kHz)
	34 W (8 kHz)
	32 W (16 kHz)
	9 W (stand by)
Output current	≤ 3.75 A (180 s)
	≤ 1.875 A (180 s, during recovery time)
	≤ 4.5 A (15 s)
	≤ 1.25 A (15 s, during recovery time)
Recovery time	150 s (180 s)
	12 s (15 s)
Overload time	30 s (180 s)

Speed starter - CSS 0.75-3/3-EMC - 1201829

Technical data

Output

	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
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"