



Main Features

| | |
|----------------|---------------------|
| Reference | : 5172617 |
| Product code | : SSW060085T2257ESZ |
| Product family | : SSW06 |

Basic data

| | |
|-------------------------------|----------------|
| Power | |
| - Rated current | : 85 A |
| - Power supply | : 220-575V |
| - Power supply type | : TT / TN / IT |
| - Frequency | : 50/60Hz |
| - Number of controlled phases | : 3 phases |
| - Integrated bypass | : Yes |

Motor power - standard connection (cv/kW)

| | |
|------------|-----------|
| - 220/230V | : 30 / 22 |
| - 380/400V | : 60 / 45 |
| - 440/460V | : 60 / 45 |
| - 575V | : 75 / 55 |
| - 690V | : No |

Motor power - delta inside connection (cv/kW)

| | |
|------------|-------------|
| - 220/230V | : 60 / 45 |
| - 380/400V | : 100 / 75 |
| - 440/460V | : 125 / 90 |
| - 575V | : 150 / 110 |

| | |
|----------------------------|-------------------|
| Electronic and fan | |
| Supply voltage (control) | : 90-250V |
| Supply voltage (cooler) | : 90-250V |
| Connection to the motor | |
| - Standard (3 leads) | : Yes |
| - Inside delta (6 leads) | : Yes |
| Duty cycle | |
| - Estándar [1] | : AC-53b 3-30:330 |
| - With ventilation kit [2] | : No |

Digital inputs

| | |
|-----------------------------|------------------|
| - Quantity (standard) | : 6 |
| - Type | : DC NPN / PNP |
| - Voltage | : 24 Vdc |
| - Minimum high level | : 18 Vdc |
| - Maximum low level | : 3 Vdc |
| - Maximum voltage | : 30 Vdc |
| - Input current | : 11 mA @ 24 Vdc |
| - Function | : Programmable |
| - Reading via communication | : Yes |

Input for motor thermistor

| | |
|-----------------------|------------|
| - Quantity (standard) | : 1 |
| - Activation | : 3k9 Ohms |
| - Deactivation | : 1k6 Ohms |
| - Minimum resistance | : 100 Ohms |

Analog outputs

| | |
|---------------------------|------------------------------|
| - Quantity (standard) | : 2 |
| - Level | : 0 to 10 Vdc and 0 to 20 mA |
| - Resolution | : 10 bits |
| - Function | : Programmable |
| - Write via communication | : Yes |

Digital outputs

| | |
|---------------------------|-------------------------------|
| - Quantity | : 3 |
| - Type | : 2 x NO relay, 1 NO/NC relay |
| - Maximum voltage | : 250 Vac |
| - Maximum current | : 1 A |
| - Function | : Programmable |
| - Write via communication | : Yes |

Functions and Features

| | |
|----------------------------------|-------|
| Control type start and stop | |
| - Voltage ramp | : Yes |
| - Voltage ramp and current limit | : Yes |
| - Current limit | : No |

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|--|---------------------------|
| - Current limitation ramp | : Yes |
| - Pump control | : Yes |
| - Torque control | : Yes |
| - Direct on line start | : No |
| Functions/Features | |
| Specials functions | |
| - Torque pulse at start (kick start) | : Yes |
| - Jog | : Yes |
| - DC braking (with contactor) | : Yes |
| - Optimal Braking (without contactor) | : Yes |
| - Reverse braking | : Yes |
| - Changing of the rotation direction | : Yes |
| - Multimotor application | : Available with optional |
| - Emergency start (Fire Mode) | : Yes |
| Diagnosis | |
| - Latest faults | : Yes, 8 last |
| - Starting and cycle diagnosis | : Yes |
| - Last previous faults | : No |
| - Last previous alarms | : No |
| - Last previous events | : No |
| Others | |
| - Set-up of the programmable fan | : No |
| - Copy of the parameters via keypad | : Yes |
| - User 1 and user 2 | : Yes |
| - Oriented Start-up | : Yes |
| - Protections actuation in errors and alarms | : Yes |
| - Fault auto reset | : Yes |
| - Real time clock (RTC) | : No |
| - SoftPLC (ladder programming) | : Yes, 1K bytes |
| Slots (para accessories options) | |
| - Quantity | : 1 |
| - Digital inputs and outputs expansion | : Yes |
| - PTC inputs | : No |
| - Pt-100 inputs | : Yes |
| - Current sensor (by extern bypass) | : No |
| Communications (see Communication) | |
| Protections | |
| Voltage | |
| - Power supply phase loss | : Yes |
| - Overvoltage and undervoltage | : Yes |
| - Voltage imbalance | : Yes |
| - Electronic undervoltage (control) | : Yes |
| Current | |
| - Overcurrent and undercurrent | : Yes |
| - Current imbalance | : Yes |
| Torque | |
| - Overtorque e undertorque | : Yes |
| Potencia | |
| - Overpower and underpower | : Yes |
| Temperature | |
| - Thyristor overheating | : Yes |
| - PTC thermistor motor overheating | : Yes |
| - PT100 thermocouple motor overheating | : Available with optional |
| Overload | |
| - Motor overload (thermal class) | : Yes |
| - Thyristor overload | : No |
| - Inverted phase sequence | : Yes |
| - External fault | : Yes |
| - Not connected motor | : Yes |
| - Wrong motor connection | : Yes |
| - Frequency out of range | : Yes |
| Ground fault | |
| - Ground fault | : Yes |
| Bypass | |
| - Bypass not opened | : Yes |
| - Bypass not closed | : Yes |
| - Overcurrent before closing the bypass | : Yes |
| - Undercurrent before closing the bypass | : Yes |
| Time | |
| - Time before starting | : No |
| - Time after starting | : Yes |
| - Time between starting | : No |
| - Locked rotor at start | : Yes |
| Communications | |

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| | |
|--|---------------------------------|
| - Programming error | : Yes |
| - Communication faults | : Yes |
| Potencia | |
| - Power short circuit with motor switched off | : Yes |
| - Thyristor fault | : Yes |
| - Hardware self-diagnosis | : Yes |
| Parameterization | |
| - Parameterization via trimpots and dip switches | : No |
| - Parameterization via keypad | : Yes |
| - Parameterization via software | : Superdrive G2 |
| Local HMI | |
| - Type | : Yes, removable |
| Remote HMI | |
| - Type | : Local removable |
| - Frame for HMI | : Optional |
| - HMI degree of protection | : IP54 |
| - Maximum cable length | : 5 m / 16.4 ft |
| Local or remote HMI data | |
| - Display | : LED and LCD matrix |
| - Keys | : 8 keys |
| - Password | : Yes |
| - Language | : Yes |
| - Help | : No |
| - Copy function | : Yes |
| - Status graphic (read) | : No |
| - HMI USB | : No |
| Communication | |
| - Modbus-RTU RS-232 | : Yes |
| - Modbus-RTU RS-485 | : Available with optional |
| - Modbus-RTU USB | : Yes |
| - WEG Bus | : No |
| - Modbus-TCP | : Available with optional |
| - Profibus-DP | : Programmable via optional |
| - Profibus-DPV1 | : Available with optional |
| - Profinet | : No |
| - DeviceNet | : Available with optional |
| - EtherNet/IP | : Programmable via optional |
| - EtherNet/IP 2P | : No |
| - Profinet IO 2P | : No |
| - CANopen | : No |
| Ambient conditions | |
| - Enclosure | : IP00 |
| - Pollution degree (UL 508) | : 2 |
| Temperature | |
| - Minimum | : 0 °C / 32 °F |
| - Rated | : 55 °C / 131 °F |
| - Current reduction factor above nominal [3] | : 2% for each degree |
| Relative humidity (non-condensing) | |
| - Minimum | : 5 % |
| - Maximum | : 90 % |
| Altitude | |
| - Under rated operating conditions | : 1000 m (3281 ft) |
| - Maximum allowed with reduction factor [4] | : 4000 m (13123 ft) |
| - Current reduction factor above 1000 m [5] | : 1 % for each 100 m (328 ft) |
| - Voltage reduction factor above 2000 m [6] | : 1.1 % for each 100 m (328 ft) |
| Dimensions | |
| - Frame | : 2 |
| - Height | : 370 mm / 14.6 in |
| - Width | : 132 mm / 5.2 in |
| - Depth | : 244 mm / 9.6 in |
| - Weight | : 8.5 kg / 18.7 lb |
| Sustainability Directives | |
| - RoHS | : Yes |
| - Conformal coating | : 3C2 |
| Standards Compliance | |
| - Safety | : UL 508 |
| - Low voltage | : EN 60947-4-2 |
| - Overvoltage category | : III (UL508 / EN61010) |
| - EMC | : Directive 89/336/EEC |
| Certifications | |
| - Product certification | : UL, CE, CS, IRAM and C-TICK |

Notes

1) Starting duty cycle AC-53b 3-30:330:

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- 3 x Rated current of the SSW06 during 30 s;
 - 10 starts per hour;
 - 100% of the time with rated current;
 - With bypass;
 - from 0 to 55 °C without current derating
- 3) For temperature over the rated value;
 - 4) With reduction factor;
 - 5) For altitude above 1000 m (3281 ft);
 - 6) For altitude above 2000 m (6562 ft);
 - 7) Image merely illustrative;
 - 8) For further information consult the product manuals SSW06.