

SVX FreqD 0.75 kW 230 V IP54



Part no. SVX001A2-2A1B1
Catalog No. 125731
Alternate Catalog No. SVX001A2-2A1B1
EL-Nummer (Norway) 4132536

Delivery program

| | | | |
|------------------------------------|-----------------|----|---|
| Product range | | | Variable frequency drives |
| Part group reference (e.g. DIL) | | | SVX |
| Rated operational voltage | U _e | | 230 V AC, 3-phase 240 V AC, 3-phase |
| Output voltage with V _e | U ₂ | | 230 V AC, 3-phase 240 V AC, 3-phase |
| Mains voltage (50/60Hz) | U _{LN} | V | 208 (-15%) - 240 (+10%) |
| Rated operational current | | | |
| At 150% overload | I _e | A | 4.8 |
| At 110% overload | I _e | A | 6.6 |
| Assigned motor rating | | | |
| Note | | | For AC motors with internal and external ventilation with 50 Hz / 60 Hz |
| Note | | | Overload cycle for 60 s every 600 s |
| Note | | | at 230 V, 50 Hz |
| 150 % Overload | P | kW | 0.75 |
| 110 % Overload | P | kW | 1.1 |
| 150 % Overload | I _M | A | 3.2 |
| 110 % Overload | I _M | A | 4.6 |
| Note | | | at 230 V, 60 Hz |
| 150 % Overload | P | HP | 1 |
| 110 % Overload | P | HP | 1.5 |
| 150 % Overload | I _M | A | 4.2 |
| 110 % Overload | I _M | A | 6 |
| Degree of Protection | | | IP54 |
| Fieldbus connection (optional) | | | PROFIBUS-DP PROFINET EtherCAT EtherNet/IP LonWorks CANopen® DeviceNet Modbus-TCP Modbus-RTU BACnet MS/TP |
| Fitted with | | | Radio interference suppression filter Brake chopper OLED display |
| Frame size | | | FR4 |
| Connection to SmartWire-DT | | | no |

Technical data

| | | | |
|------------------------------------|----------------|----|---|
| General | | | |
| Standards | | | General requirements: IEC/EN 61800-2 EMV requirements: IEC/EN 61800-3 Safety requirements: IEC/EN 61800-5-1 |
| Certifications | | | CE, UL, cUL, RCM |
| Approvals | | | DNV |
| Production quality | | | RoHS, ISO 9001 |
| Climatic proofing | ρ _w | % | < 95% relative humidity, no condensation, no corrosion, no dripping water |
| Ambient temperature | | | |
| Operating ambient temperature min. | | °C | -10 |

| | | | |
|------------------------------------|---|----|---|
| Operating ambient temperature max. | | °C | + 50 |
| operation (110 % overload) | θ | °C | -10 - +40 |
| Storage | θ | °C | -40 - +70 |
| Radio interference level | | | |
| Radio interference class (EMC) | | | C2, C3, depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary. |
| Environment (EMC) | | | 1st and 2nd environments as per EN 61800-3 |
| Mounting position | | | Vertical |
| Altitude | | m | 0 - 1000 m above sea level above 1000 m with 1 % performance reduction per 100 m max. 3000 m |
| Degree of Protection | | | IP54 |
| Protection against direct contact | | | BGV A3 (VBG4, finger- and back-of-hand proof) |

Main circuit

| | | | |
|---------------------------------------|------------|-----|---|
| Supply | | | |
| Rated operational voltage | U_e | | 230 V AC, 3-phase 240 V AC, 3-phase |
| Mains voltage (50/60Hz) | U_{LN} | V | 208 (-15%) - 240 (+10%) |
| System configuration | | | AC supply systems with earthed center point |
| Supply frequency | f_{LN} | Hz | 50/60 |
| Frequency range | f_{LN} | Hz | 45–66 (± 0%) |
| Power section | | | |
| Function | | | Variable frequency drive with internal DC link and IGBT inverter |
| Output voltage with V_e | U_2 | | 230 V AC, 3-phase 240 V AC, 3-phase |
| Output Frequency | f_2 | Hz | 0 - 50/60 (max. 320) |
| Switching frequency | f_{PWM} | kHz | 10 adjustable 1 - 16 |
| Operation Mode | | | U/f control sensorless vector control (SLV) |
| Frequency resolution (setpoint value) | Δf | Hz | 0.01 |
| Rated operational current | | | |
| At 150% overload | I_e | A | 4.8 |
| At 110% overload | I_e | A | 6.6 |
| Fitted with | | | Radio interference suppression filter Brake chopper OLED display |
| Frame size | | | FR4 |
| Motor feeder | | | |
| Note | | | For AC motors with internal and external ventilation with 50 Hz / 60 Hz |
| Note | | | Overload cycle for 60 s every 600 s |
| Note | | | at 230 V, 50 Hz |
| 150 % Overload | P | kW | 0.75 |
| 110 % Overload | P | kW | 1.1 |
| Note | | | at 230 V, 60 Hz |
| 150 % Overload | P | HP | 1 |
| 110 % Overload | P | HP | 1.5 |

Control section

| | | | |
|--------------------------|-------|---|--|
| External control voltage | U_c | V | 24 V DC (max. 250 mA) |
| Reference voltage | U_s | V | 10 V DC (max. 10 mA) |
| Analog inputs | | | 2, parameterizable, 0 - 10 V DC, 0/4 - 20 mA |
| Analog outputs | | | 1, parameterizable, 0/4 - 20 mA |
| Digital inputs | | | 6, parameterizable, max. 30 V DC |
| Digital outputs | | | 1, parameterizable, 48 V DC/50 mA |
| Relay outputs | | | 2, parameterizable, N/O, 8 A (24 V DC) / 8 A (250 V AC) / 0,4 A (125 V DC) |

Assigned switching and protective elements

| | | | |
|--------------|--|--|--|
| Motor feeder | | | |
| motor choke | | | |

| | | | |
|---|--|--|-------------|
| 150 % overload (CT/I _H , at 50 °C) | | | DX-LM3-005 |
| 110 % overload (VT/I _L , at 40 °C) | | | DX-LM3-008 |
| Sine filter | | | |
| 150 % overload (CT/I _H , at 50 °C) | | | DX-SIN3-010 |
| 110 % overload (VT/I _L , at 40 °C) | | | DX-SIN3-010 |

Design verification as per IEC/EN 61439

| | | | |
|--|--|----|-----|
| Technical data for design verification | | | |
| Operating ambient temperature min. | | °C | -10 |
| Operating ambient temperature max. | | °C | 50 |

Assets (links)

Declaration of CE Conformity

00002807

Additional product information (links)

| | |
|--------------------------------------|---|
| IL04020008Z Frequency inverter 9000X | |
| IL04020008Z Frequency inverter 9000X | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04020008Z2018_05.pdf |