MPX22A-DFC20A-MPI-0070-5E3-CO-C

SEW-EURODRIVE GmbH & Co KG · MOVIPRO® technology Decentralized Inverter

FEATURES

Decentralized inverter, 7 A / 3 kW, Size 2, PROFINET version (order code per MOVIPRO® technology DFC product manual).

Hardware

Decentralized field-mounted inverter; control modes U/f, VFCplus, CFC, ELSM; supports SEW synchronous/asynchronous motors and third-party motors; encoder evaluation:
MOVILINK DDI, sin/cos, TTL/HTL, RS422, HIPERFACE; up to 12 digital inputs, 8 digital outputs, 1 relay, 2 analog inputs, 2 analog outputs; brake control DC 24 V (BMV5) / AC 230-460 V (BD1B) / safe brake (SBM); fanless up to 24 A; model suffix: DFC20A = Direct Fieldbus Communication, PROFINET IO, M12 4-pin D-coded connectors; 5E3 = 3 x AC 380-500 V with integrated C2 EMC filter, 3-phase; CO = MOVILINK DDI interface via motor plug; C = generation C

Communication

Built-in ports:
DFC (direct fieldbus) or DSI (direct systembus) version

Protocols:
DFC1=EtherCAT/SBusPLUS, DFC2=PROFINET IO, DFC3=EtherNet/IP+Modbus TCP; DSI1=EtherCAT/SBusPLUS+CIA402; connector options M12 4-pin D-coded (0) or Push-Pull RJ45 (5)

Communication expansion:
PROFIsafe, CIP Safety, Safety over EtherCAT via MOVISAFE option; CSB31A (basic safety), CSS.1A (extended safety motion), CSA31A (safe position)

Electrical

Supply voltage:
3 x AC 400-480 V (voltage code 5E3; IT network versions also available)

Rated output current:
7 A

Rated power (asynchronous motor):
3 kW

Overload capacity:
200%

PWM frequency:
4 / 8 / 16 kHz selectable (parameter P864)

Maximum output frequency:
U/f 599 Hz; VFCPLUS 250 Hz; CFC 500 Hz; ELSM 500 Hz (per MOVIPRO technology product manual output data)

External brake resistor options:
BW100-004-00 (100 Ω/0.4 kW), BW050-008-01 (50 Ω/0.8 kW), BW033-012-01 (33.3 Ω/1.2 kW), BW017-024-02 (16.7 Ω/2.4 kW), all IP65

Environmental

Operating temperature:
-25 to +40 °C (no derating); +40 to +60 °C (derating); IEC 60721-3-3 class 3K22

Storage temperature:
-25 to +70 °C (IEC 60721-3-1 class 1K21, non-condensing)

Relative humidity:
Non-condensing (no specific RH percentage published by manufacturer)

Protection rating:
IP65 (EN 60529); IP54 with service unit screws tightened and connector caps

Physical

Dimensions (H × W × D):
300 × 480 × 162 mm; 364 × 620 × 180 mm

Weight:
approx. 15.5 kg

Lifecycle

Current SEW-EURODRIVE product line; part of MOVI-C® automation system; Size 2E listed in official product documentation; official product page and manual active (Last verified:
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