MCB91A-0025-5D3-2-000

SEW-EURODRIVE GmbH & Co KG · MOVITRAC® basic Inverter

FEATURES

Simple encoderless inverter, 2.5 A, 0.75 kW, 3 x AC 200-500 V.

Hardware

Cabinet-mounted simple inverter for encoderless asynchronous motors; control modes V/f, VFC, LVFC; no built-in brake chopper (motor brake controlled via isolated relay contact X22, DC 24 V); 4 digital inputs (Type 2, IEC 61131-2), 2 configurable DIO (50 mA max), 1 PTC temperature input; AI1 (0-10 V or 0(4)-20 mA, 10-bit), AIO1 configurable; relay output DC 30 V/0.8 A; cooling:
natural convection; efficiency class IE2 (Ecodesign (EU) 2019/1781)

Communication

Built-in ports:
Binary and analog inputs only (no built-in fieldbus)

Protocols:
None (no built-in fieldbus; optional CFX11A gateway for EtherNet/IP, PROFINET, EtherCAT)

Communication expansion:
CFX11A-E (EtherNet/IP+Modbus TCP), CFX11A-N (PROFINET), CFX11A-S (EtherCAT/SBusPLUS); all IP20, 53 × 158 × 39 mm; cascade up to 7 units via CFC11A

Electrical

Supply voltage:
3 x AC 200-500 V

Rated output current I_N:
2.5 A (at minimum PWM frequency)

Motor power:
0.75 kW

Rated line current:
2.25 A

Overload capacity:
150% x I_N for 30 s at f_PWM=4 kHz (per MOVITRAC basic technical data table)

Continuous output at 0 Hz:
75% x I_N (f_PWM=4 kHz)

DC bus voltage:
nominal DC 560 V (at 400 V), max DC 980 V (3-phase); nominal DC 326 V (at 230 V), max DC 420 V (1-phase)

PWM frequency:
4 / 8 / 16 kHz selectable

Maximum output frequency:
500 Hz (LVFC mode)

Power loss (power section):
25 W; 24 V consumption: 1 W; internal 24 V supply: 6 W available

EMC:
built-in C3 category (EN 61800-3), model code D = C3; optional external filters CNF11A/CNF31A

Environmental

Operating temperature:
-10 to +40 °C (no derating); +40 to +55 °C (derating); IEC 60721-3-3 class 3K22

Storage temperature:
-25 to +70 °C (IEC 60721-3-1 class 1K21, non-condensing); 1-phase units require power-on for 5 min every 2 years during long storage

Relative humidity:
Moisture-proof, non-condensing (no specific RH percentage published by manufacturer)

Protection rating:
IP20 (EN 60529, only when mains and motor power plugs are inserted)

Physical

Dimensions (H × W × D):
187 × 56 × 150 mm (bare unit, per MOVITRAC basic dimension drawing 4.21.1); depth T1 = 156 mm with CBG01A panel, 157 mm with CDM11A, 175 mm with CFX11A gateway

Weight:
1.25 kg

Lifecycle

Current SEW product line; part of MOVI-C® entry-level inverter portfolio; official product page and manual active (Last verified:
2026-09)