MCV41A0030-5A3-4-00

SEW-EURODRIVE GmbH & Co KG · MOVIDRIVE® compact Inverter (with encoder feedback)

FEATURES

Compact vector inverter with encoder feedback (CFC), 3.0 kW, PROFIBUS-DP built-in.

Hardware

Communication

Built-in ports:
PROFIBUS-DP (IEC 61158), auto baud rate 9.6 kbaud-12 Mbaud; SBus system bus

Protocols:
PROFIBUS-DP; binary/analog setpoint

Communication expansion:
No built-in Ethernet; DWI11A encoder option (822 759 4)

Electrical

Supply voltage:
3 x AC 380-500 V nominal, 50-60 Hz +/-5%

Rated power (constant torque at 400 V):
3.0 kW

Continuous output current (VFC, 125% I_N, 4 kHz):
8.8 A

CFC stall torque:
minimum 160% of rated torque even with motor stopped (encoder required)

VFC stall torque:
minimum 150% (with encoder); 150% from 0.5 Hz (without encoder)

Current limit I_max:
150% I_N (motoring/regenerative)

Output frequency:
0-1100 Hz setpoint range (parameter 002); maximum output frequency not separately published in technical data table

Minimum braking resistor:
Size 1 (230 V)=27 Ω; Size 3=15/12 Ω; Size 4=6 Ω; Size 5=6/4 Ω

DC bus voltage:
Not published by manufacturer (MOVIDRIVE compact system manual technical data table does not list nominal or maximum DC link voltage)

Environmental

Operating temperature:
0 to +50 °C (100% I_N, 4 kHz); 0 to +40 °C (125% I_N or 8 kHz); derating 3.0% I_N per K above, maximum +60 °C (EN 60721-3-3 class 3K3)

Storage temperature:
-25 to +70 °C (class 3K3); DBG panel -20 to +60 °C; long-term storage requires power-on for at least 5 min every 2 years

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

Protection rating:
IP20 (EN 60529)

Physical

Dimensions (H × W × D):
315 × 105 × 155 mm

Weight:
2.8 kg

Lifecycle

Legacy (official migration guide to MDX61B; no formal EOS announcement; product page delisted; aftermarket channels list as discontinued by manufacturer) (Last verified:
2026-09)