

MM15D-503-00

MOVIMOT Decentralized Drive Inverter

SEW-EURODRIVE MM15D-503-00 is a MOVIMOT decentralized drive inverter for a 1.5 kW motor. It provides local variable-frequency motor control in distributed machine installations.

PRODUCT SNAPSHOT

BRAND

SEW-EURODRIVE

FAMILY

MOVIMOT MM..D decentralized drive system

PART

MM15D-503-00

ORIGIN / HS

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PRODUCT OVERVIEW

SEW-EURODRIVE MM15D-503-00 is a MOVIMOT decentralized drive inverter for a 1.5 kW motor. It provides local variable-frequency motor control in distributed machine installations.

1

Controls a decentralized three-phase gearmotor at the machine

2

Generates variable-frequency motor voltage from the industrial mains

3

Executes configured speed, direction, ramp, and control commands

4

Supports distributed conveyor and material-flow drive stations

SYSTEM COMPONENTS

compatible SEW gearmotor

MOVIMOT connection unit

approved hybrid motor cable

fieldbus or digital control interface

TECHNICAL DATA

PARAMETER	VALUE
Part number	18215033
Input	3 x 380 to 500 V AC
Input frequency	50 to 60 Hz
Nominal line current at 400 V	3.5 A AC
Apparent output power	2.8 kVA
Nominal output current	4.0 A AC
Motor power S1	1.5 kW / 2.0 hp

PARAMETER	VALUE
Output voltage	0 to line voltage
Output frequency	2 to 120 Hz
Frequency resolution	0.01 Hz
PWM frequency	4 / 8 / 16 kHz
Power factor	0.99
Maximum motor cable length	15 m with SEW hybrid cable

TECHNICAL NOTE

Confirm the motor nameplate and 380-500 V supply, set the inverter for the connected gearmotor, and test rotation, current, braking, communication, and protective functions before coupling the load.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Conveyor section drive

Controls a decentralized three-phase gearmotor at the machine

Packaging-machine decentralized axis

Generates variable-frequency motor voltage from the industrial mains

Material-handling roller drive

Executes configured speed, direction, ramp, and control commands

Production-line gearmotor control

Supports distributed conveyor and material-flow drive stations

PRODUCT PRECAUTIONS

- 1 Verify MM15D-503-00 and part number 18215033 before replacement.
- 2 Lock out the three-phase mains and wait for the DC link to discharge.
- 3 Confirm motor voltage, current, connection, and braking arrangement.
- 4 Use the approved connection unit, seals, and cable glands.
- 5 Preserve address, control source, ramp, and frequency settings.
- 6 Check protective earth and hybrid-cable screen termination.
- 7 Test direction and current with the driven load mechanically safe.
- 8 Prove fieldbus commands, fault reset, braking, and emergency-stop behavior.

ENGINEER FAQ

Q1 What should be checked if MM15D-503-00 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q2 Can MM15D-503-00 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q3 What commissioning evidence should be retained for MM15D-503-00?

Retain the full MM15D-503-00 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q4 Which installed hardware must be matched before fitting MM15D-503-00?

Match the complete MM15D-503-00 marking to compatible SEW gearmotor and MOVIMOT connection unit, then confirm the assigned MOVIMOT MM..D decentralized drive system position and approved system configuration.

Q5 How should the field connections for MM15D-503-00 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting MM15D-503-00.

Q6 What isolation is required before installing MM15D-503-00?

Place conveyor section drive in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q7 Which configuration check is essential when commissioning MM15D-503-00?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q8 How can an engineer function-test MM15D-503-00 after installation?

Apply a controlled input, reference, or limited output appropriate to movimot decentralized drive inverter, observe the system indication and diagnostics, and confirm the intended process response.

SOURCE MOVIMOT MM..D Operating Instructions | MM15D-503-00 / 18215033

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