

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	SEW-EURODRIVE
System family	MOVIMOT MM..D decentralized drive system
Part number	MM15D-503-00
Country	Germany
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named SEW-EURODRIVE product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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.

FUNCTION 1

Controls a decentralized three-phase gearmotor at the machine

FUNCTION 2

Generates variable-frequency motor voltage from the industrial mains

FUNCTION 3

Executes configured speed, direction, ramp, and control commands

FUNCTION 4

Supports distributed conveyor and material-flow drive stations

Matched system components

- compatible SEW gearmotor
- MOVIMOT connection unit
- approved hybrid motor cable
- fieldbus or digital control interface

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible SEW gearmotor
Companion hardware	MOVIMOT connection unit
Field connection	approved hybrid motor cable
Primary system function	Controls a decentralized three-phase gearmotor at the machine
Controlled acceptance duty	Conveyor section drive

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	MM15D-503-00 / MM15D-503-00 recorded
Physical interface	compatible SEW gearmotor
Companion check	MOVIMOT connection unit
Functional proof	Controls a decentralized three-phase gearmotor at the machine
Application test	Conveyor section drive

5 Engineering 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.

CONFIGURATION VERIFICATION MATRIX

- **INSTALLED POSITION** compatible SEW gearmotor
- **COMPANION HARDWARE** MOVIMOT connection unit
- **FUNCTIONAL DUTY** Controls a decentralized three-phase gearmotor at the machine
- **ACCEPTANCE APPLICATION** Conveyor section drive

MANUFACTURER SOURCE RECORD

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

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