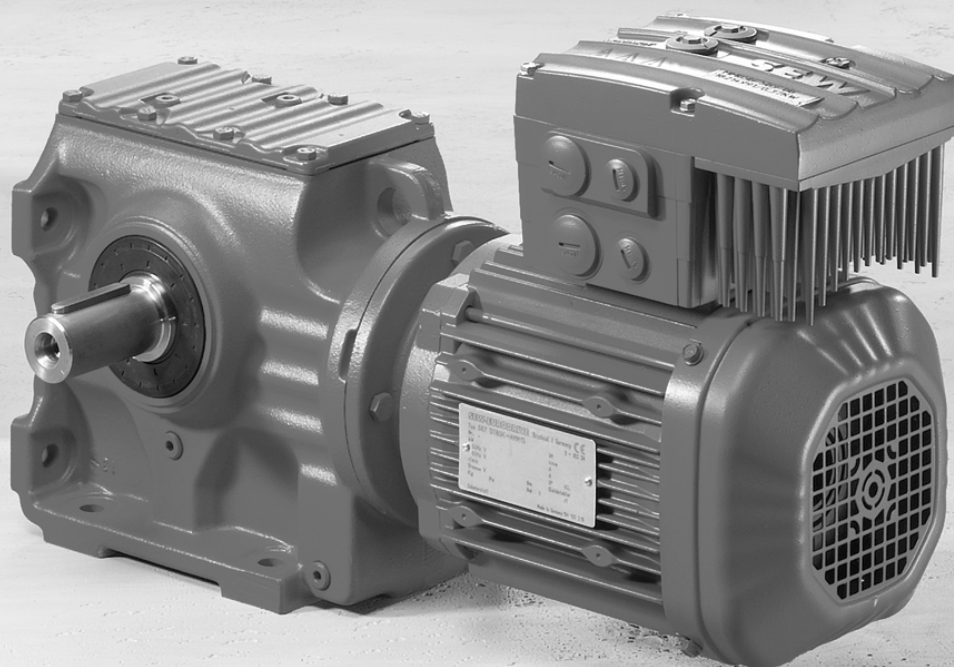




SEW
EURODRIVE

Revision



Decentralized Drive Systems
MOVIMOT® MM..D



1 Amendments/revisions

The following documentation has been amended and revised.

Observe the data specified in this revision. This document does not replace the detailed operating instructions/compact operating instructions.

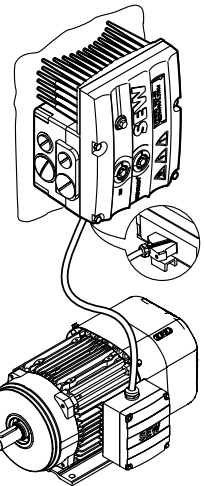
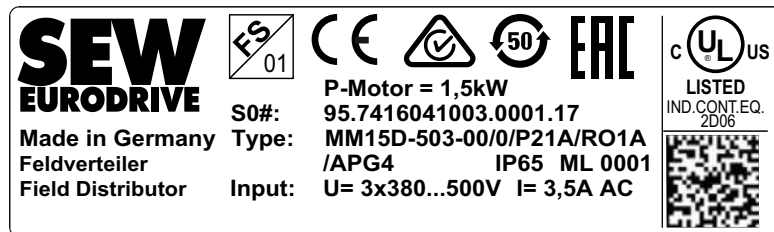
- "MOVIMOT® MM..D" operating instructions
- "MOVIMOT® MM..D" compact operating instructions

1.1 Type designation of the design "mounted close to the motor"

1.1.1 Nameplate

Order-specific nameplate

The following figure provides an example of an order-specific nameplate of the MOVIMOT® inverter for mounting close to the motor:



General nameplate

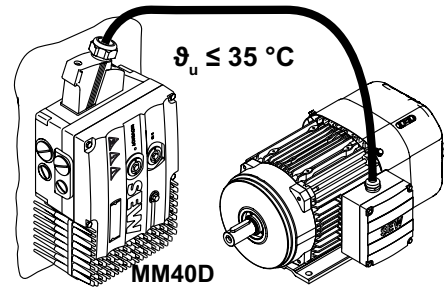
The following figure provides an example of a general nameplate of the MOVIMOT® inverter for mounting close to the motor:

Input:	Output to next Field Distributor:
U= 3x200...500V	U= –
I _{max} = –	I _{max} = –
Input:	Output to drive:
U= 3x200...500V	U= 3x0...U _{input}
I _{max} = 1,3...3,5A AC	I _{max} = 1,6...4,0A AC
f= 50...60Hz	P-Motor= 0,25...1,5kW

2 Mechanical installation

2.1 Mounting position

Install the MOVIMOT® inverter **MM40D** (4 kW) in mounting position M2 (**heat sink on bottom**, see right figure) close to the motor only if ambient temperatures are $\vartheta_u \leq 35\text{ °C}$.



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3 Electrical installation

3.1 Connection of MOVIMOT® options

3.1.1 Connection of forced cooling fan V

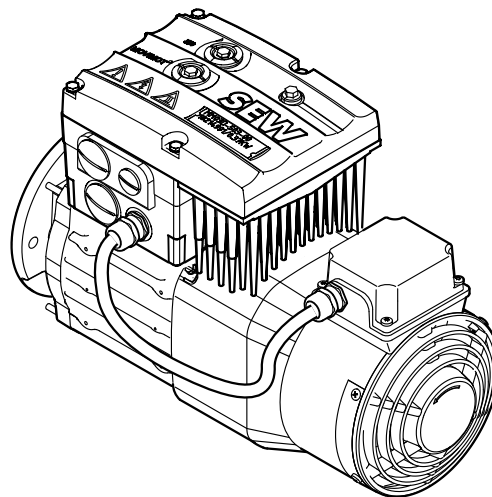
The AC motors in the DR.. series are also available with the forced cooling fan. Using the forced cooling fan V extends the setting range of the setpoint speed. Speeds from 150 min^{-1} (5 Hz) can then be consistently achieved.

INFORMATION



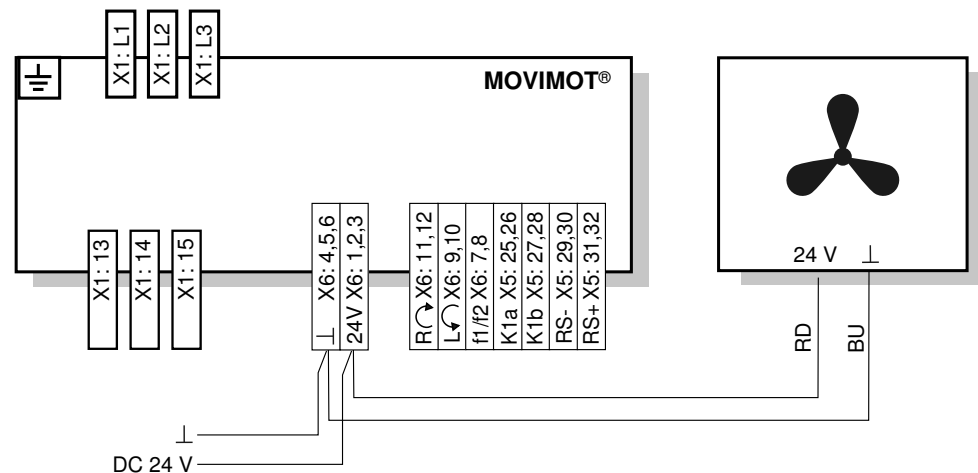
- For motors with V forced cooling fans, the *P341 type of cooling* parameter must be set to "forced air cooling".
- When using MOVIMOT® drives with functional safety (STO), do **not** connect the forced cooling fan to the connection box. Instead, use an external DC 24 V supply to supply the forced cooling fan with power.

The following figure shows the cable entry of the forced cooling fan cable:
(Only for MOVIMOT® drives without functional safety.)



18014401679145483

The following figure shows an example connection for the V forced cooling fan:
(Only for MOVIMOT® drives without functional safety.)



9007202436852107

4 "Easy" startup

4.1 Description of the DIP switches S1

4.1.1 DIP switch S1/6

Motor with 50/60 Hz voltage range

Applies to MOVIMOT® with the following drive ID modules:

Drive ID module			Motor	
Designation	Identification color	Part number	Line voltage V	Line frequency Hz
DRS/DRE/50/60	Violet	18214444	220 – 240/380 – 415 254 – 277/440 – 480	50 60
DRS/DRN/50/60	Pastel green	28241827	220 – 230/380 – 400 266/460	50 60

Setting of DIP switch S1/6:

Power kW	Motor type	MOVIMOT® inverter MM..D-503-00			
		Motor in Δ connection		Motor in Δ connection	
		S1/6 = OFF	S1/6 = ON	S1/6 = OFF	S1/6 = ON
0.25	DR63L4/..	–	MM03D..	MM03D..	MM05D..
0.37	DRS71S4/..	MM03D..	MM05D..	MM05D..	MM07D..
0.55	DRS71M4/..	MM05D..	MM07D..	MM07D..	MM11D..
0.75	DRE80M4/.. DRN80M4/..	MM07D..	MM11D..	MM11D..	MM15D..
1.1	DRE90M4/.. DRN90S4/..	MM11D..	MM15D..	MM15D..	MM22D..
1.5	DRE90L4/.. DRN90L4/..	MM15D..	MM22D..	MM22D..	MM30D..
2.2	DRE100L4/.. DRN100LM4/..	MM22D..	MM30D..	MM30D..	MM40D..
3.0	DRE100LC4/.. DRN100L4/..	MM30D..	MM40D..	MM40D..	–
4.0	DRE132S4/.. DRN112M4/..	MM40D..	–	–	–

5 Operation

5.1 Operating notes



⚠ WARNING

Electric shock caused by dangerous voltages at the connections, cables and motor terminals.

When the device is switched on, dangerous voltages are present at the connections as well as at any connected cables and motor terminals. This also applies even when the device is inhibited and the motor is at standstill.

Severe or fatal injuries.

- Do not switch under load.
- Before performing any work on the device, disconnect it from the voltage supply. Note that dangerous voltages can occur at the terminals and connections for up to 1 minute after the controller is switched off.
- Block the output stage of the inverter before switching at the output of the device.



⚠ WARNING

Electric shock from capacitors that have not been fully discharged.

Severe or fatal injuries.

- Disconnect the inverter from the power. Observe the minimum switch-off time after disconnection from the supply system:
 - 1 minute



⚠ WARNING

Risk of crushing if the motor starts up unintentionally.

Severe or fatal injuries

- Observe the startup instructions.
- Deactivate all control signals.



⚠ WARNING

Danger of burns due to hot surfaces of the device (e.g. the heat sink).

Serious injuries.

- Do not touch the device until it has cooled down sufficiently.



INFORMATION

- The maximum output frequency in any operating mode is 120 Hz.
- If the maximum output frequency is exceeded, the status LED of the MOVIMOT® inverter flashes slowly red (error 08 "speed monitoring").

6 Service

6.1 Inspection and maintenance

6.1.1 Repairs

Only SEW-EURODRIVE is authorized to carry out repairs.

7 Technical data

7.1 Assignment of the drive ID module

Type	Motor		Drive ID module		
	Line voltage V	Line frequency Hz	Designation	Identification color	Part number
DRS	230/400	50	DRS/400/50	White	18214371
DRE	230/400	50	DRE/400/50	Orange	18214398
DRS	266/460	60	DRS/460/60 ¹⁾	Yellow	18214401
DRE	266/460	60	DRE/460/60 ¹⁾	Green	18214428
DRS/DRE	220/380	60	DRS/DRE/380/60 ¹⁾	Red	18234933
DRS/DRE	220 – 240/380 – 415	50	DRS/DRE/50/60	Violet	18214444
	254 – 277/440 – 480	60			
DRP	230/400	50	DRP/230/400	Brown	18217907
DRP	266/460	60	DRP/266/460 ¹⁾	Beige	18217915
DRU...J	230/400	50	DRU...J/400/50	Gray	28203194
DRN	230/400	50	DRN/400/50	Light blue	28222040
DRN	266/460	60	DRN/460/60	Blue green	28222059
DRS/DRN	220 – 230/380 – 400	50	DRS/DRN/50/60	Pastel green	28241827
	266/460	60			

1) This drive ID module can also be combined with MOVIMOT® MM..D-233.

8 Declaration of conformity

EU Declaration of Conformity



Translation of the original text

900030410/EN

SEW-EURODRIVE GmbH & Co. KG
Ernst-Blickle-Straße 42, D-76646 Bruchsal

declares under sole responsibility that the following products

Frequency inverters of the product family **MOVIMOT® MM..D-..3-..**
MOVIMOT® .../MM../...

in accordance with

Machinery Directive	2006/42/EC (L 157, 09.06.2006, 24-86)
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This includes the fulfillment of the protection targets for "electrical power supply" in accordance with annex I No. 1.5.1 according to the Low Voltage Directive 73/23/EEC -- Note: 2014/35/EU is currently valid.

EMC Directive	2014/30/EU (L 96, March 29, 2014, 79-106)	4)
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RoHS Directive	2011/65/EU (L 174, July 1, 2011, 88-110)
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Applied harmonized standards: EN ISO 13849-1:2008/AC:2009
EN 61800-5-2:2007
EN 61800-5-1:2007
EN 61800-3:2004/A1:2012
EN 50581:2012

4) According to the EMC Directive, the listed products are not independently operable products. EMC assessment is only possible after these products have been integrated in an overall system. For the assessment, the product was installed in a typical plant configuration.

Bruchsal

20.07.2017

Bob

Place

Date _____

Johann Soder
Managing Director Technology

a) b)

- a) Authorized representative for issuing this declaration on behalf of the manufacturer
b) Authorized representative for compiling the technical documents













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Driving the world

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