



SEW
EURODRIVE

Data Sheet



MOVIMOT® MM..D Information Regarding UL



1 Information Regarding UL

1.1 Field wiring power terminals

Observe the following notes for UL-compliant installation:

- Use 60/75 °C copper wire only.
- Tighten terminals to 1.5 Nm (13.3 in - lb.)

1.2 Short circuit current rating

Suitable for use on a circuit capable of delivering not more than 200,000 rms symmetrical amperes when protected as follows

For 240 V systems:

250 V minimum, 25 A maximum, non-semiconductor fuses
or 250 V minimum, 25 A maximum, inverse time circuit breakers

For 500 V systems:

500 V minimum, 25 A maximum, non-semiconductor fuses
or 500 V minimum, 25 A maximum, inverse time circuit breakers

The max. voltage is limited to 500 V.

1.3 Branch circuit protection

Integral solid state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes.

For maximum branch circuit protection see table below.

Series	non-semiconductor fuses	inverse time circuit breaker
MOVIMOT® MM..D	250 V / 500 V minimum, 25 A maximum	250 V / 500 V minimum, 25 A maximum

1.4 Motor overload protection

MOVIMOT® MM..D is provided with load and speed-sensitive overload protection and thermal memory retention upon shutdown or power loss.

The trip current is adjusted to 140 % of the rated motor current.

1.5 Ambient temperature

MOVIMOT® MM..D is suitable for an ambient temperature of 40 °C, max. 60 °C with -derated output current. To determine the output current rating at higher than 40 °C, the output current should be derated 3.0 % per °C between 40 °C and 60 °C.

INFORMATION

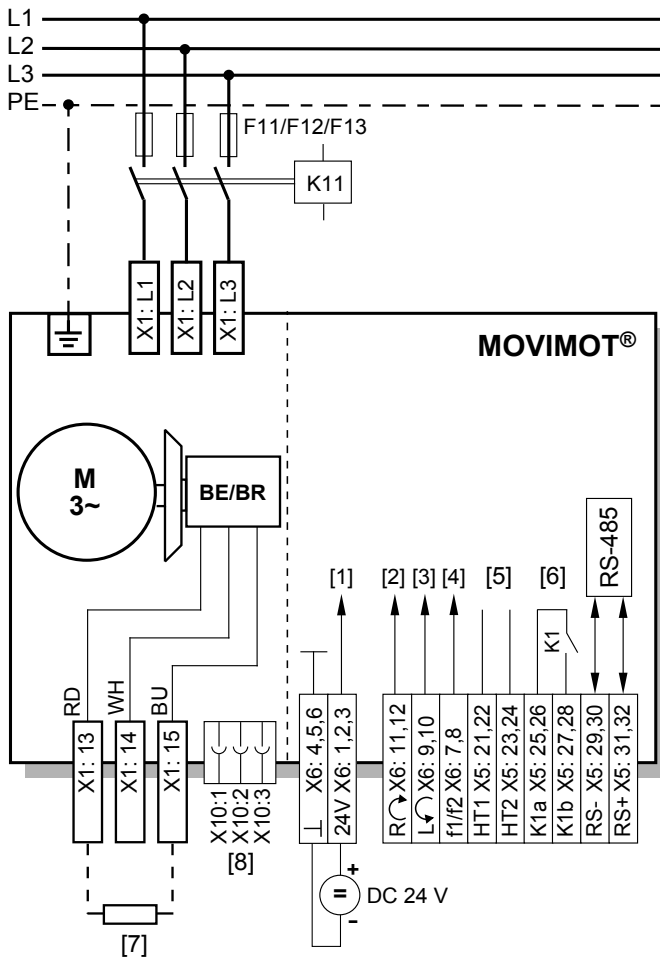


- Only use certified units with a limited output voltage (V_{\max} = DC 30 V) and limited output current ($I \leq 8$ A) as an external DC 24 V voltage source.
- The UL certification only applies for the operation on voltage supply systems with voltages to ground of max. 300 V. The UL-certification does not apply to operation on voltage supply systems with a non-grounded star point (IT systems).



1.6 Wiring Diagram

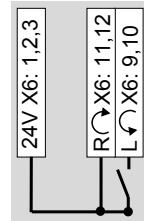
The following figure shows the wiring diagram of MOVIMOT® MM..D with AC motor DRS/DRE/DRP:



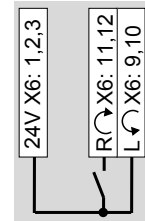
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- [1] DC 24 V supply (external or MLU..A/MLG..A options)
- [2] CW/Stop
- [3] CCW/Stop
- [4] Setpoint changeover f1/f2
- [5] Ready signal (contact closed = ready for operation)
- [6] Braking resistor BW..
- (only for MOVIMOT® drives without mechanical brake)
- [7] Plug connector for connecting option BEM

Functions of the CW / Stop and CCW / Stop terminals for binary control:

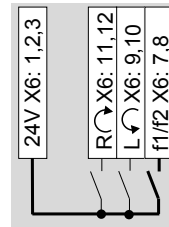


CW rotation active

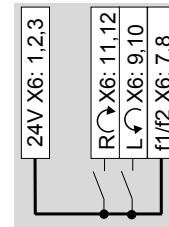


CCW rotation active

Functions of terminals f1/f2:

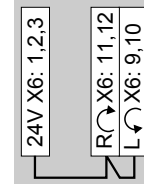


Setpoint f1

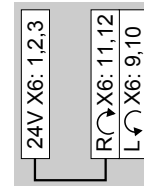


Setpoint f2 active

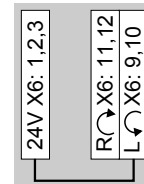
Functions of the CW / Stop and CCW / Stop terminals for control via RS-485 interface / fieldbus:



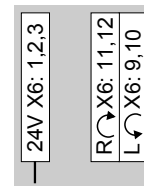
Both directions of rotation are enabled



Only CW direction is enabled
Setpoint specifications for CCW operation cause standstill of the drive



Only CCW operation is enabled
Setpoint specifications for CW operation cause standstill of the drive



Drive is inhibited or is being brought to a stop

For further wiring diagrams (e.g. for options), please refer to the English operating manual:

- "MOVIMOT® MM..D With AC Motor DRS/DRE/DRP"
- or "MOVIMOT® MM..D With AS-Interface And AC Motor DRS/DRE/DRP"
- or "MOVIMOT® MM..D With AC Motor DT/DV"

(see <http://www.sew-eurodrive.com>)



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Driving the world

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