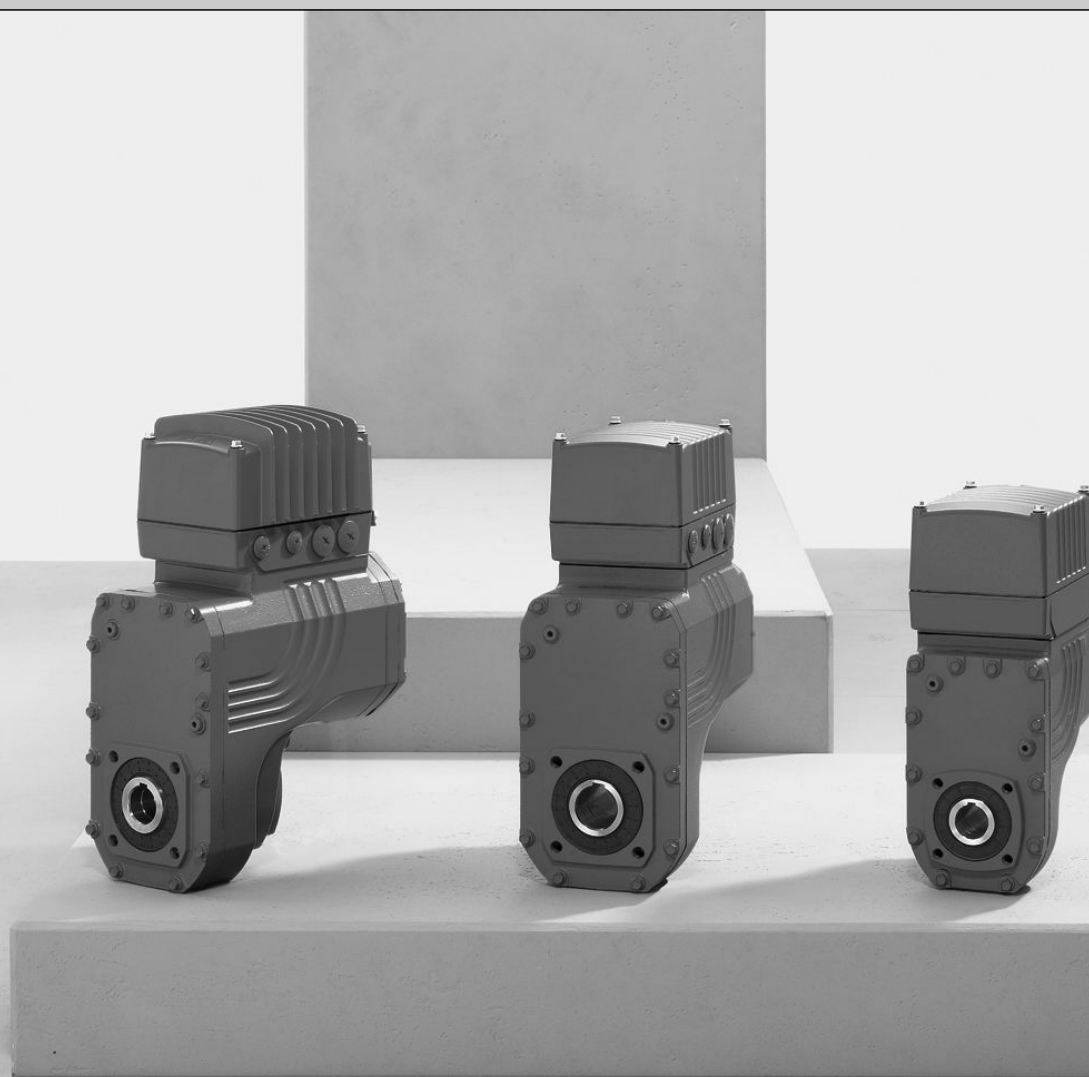




SEW
EURODRIVE

Revision



Mechatronic Drive System
MOVIGEAR® DBC-B, DAC-B, DSC-B, SNI-B,



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1 Revision

INFORMATION



This revision contains the following changes regarding the mechatronic drive unit MOVIGEAR®:

This document does not replace the detailed operating instructions.

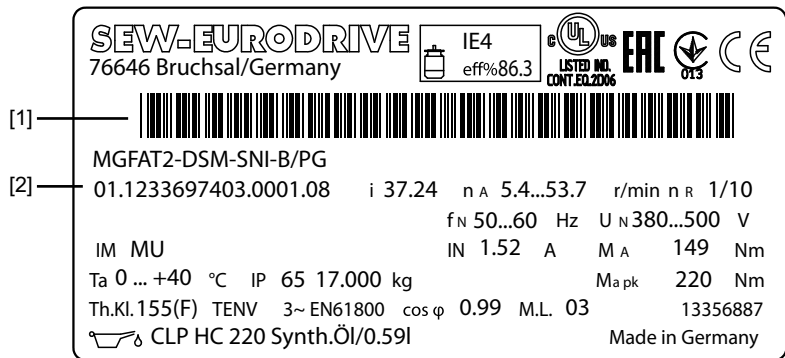
- Revised chapter "Unit structure / Example nameplate and type designation of the drive unit".
 - Revised chapter "Electrical installation / UL-compliant installation".
-

2 Unit structure

2.1 Example nameplate and type designation of drive unit

2.1.1 Nameplate

The following figure gives an example of a MOVIGEAR® nameplate. For the structure of the type designation, refer to chapter "Type designation".



27021600132402315

- [1] The bar code on the nameplate (code 39) according to ISO/IEC 16388 represents the unique manufacturing number (with a period as separator).
- [2] Unique manufacturing number

2.1.2 Type designation

The following table shows the MOVIGEAR® type designation:

MG	Product line MG = MOVIGEAR®
F	Gear unit type F = Parallel-shaft helical gear unit
A	Shaft type A = Shaft-mounted gear unit (hollow shaft with key) T = TorqLOC® hollow shaft mounting system
S	Housing mounting T = Drive with torque arm S = Housing with threads for mounting a torque arm
2	Size 2 = Torque class 200 Nm 4 = Torque class 400 Nm
-	
DSM	Motor type
-	

SNI	MOVIGEAR® installation technology DBC = Direct B inary C ommunication DAC = Direct AS -Interface C ommunication DSC = Direct S Bus C ommunication SNI = S ingle Line N etwork I nstallation
-	
B	MOVIGEAR® version
/	
DSP	MOVIGEAR® option DSP = Electrodynamic deceleration function DynaStop® ECR = Single-turn encoder / Extended control range ACR = Multi-turn encoder / Extended control range (in preparation) XT = Increased torque IV = Plug connector WA = Variant for wet areas PG = Integrated pressure compensation gear unit PE = Pressure compensation fitting electronics

3 Electrical installation

3.1 Installation instructions

3.1.1 UL-compliant installation

INFORMATION



Due to UL requirements, the following chapter is always printed in English independent of the language of the publication.

Power terminals

Observe the following notes for UL-compliant installation:

- Use 75 °C copper wire only.
- Tighten power terminals to 1.2 – 1.4 Nm (10.6 – 12.4 lb.in).

Short circuit current rating

Suitable for use on a circuit capable of delivering not more than 200,000 rms symmetrical amperes when protected by 600 V non-semiconductor fuses or 500 V minimum inverse time circuit breakers.

- MOVIGEAR®, the max. voltage is limited to 500 V.

Suitable for motor group installation on a circuit capable of delivering not more than 5,000 rms symmetrical amperes when protected by maximum 40 A, 600 V non-semiconductor fuses or 500 V minimum 40 A maximum inverse time circuit breaker.

- MOVIGEAR®, the max. voltage is limited to 500 V.

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.

The table below list the permitted maximum branch circuit protection:

Series	Non-semiconductor fuses	Inverse time circuit breakers
MOVIGEAR®	40 A / 600 V	500 V minimum / 40 A maximum

Motor overload protection

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

The trip current is adjusted to 150% of the rated motor current.

Ambient temperature

MOVIGEAR® is suitable for an ambient temperature of 40 °C, max. 55 °C with derated output current. To determine the output current rating at temperatures above 40 °C, the output current should be derated by 3.0% per K between 40 °C and 55 °C.

Wiring diagrams

For wiring diagrams, refer to chapter "Electrical installation".









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