

The MOVIMOT® performance drive unit



Drive unit consisting of a synchronous motor and integrated inverter

Boasting impressive flexibility and overload capacity, MOVIMOT® performance is the go-to expert for dynamics. It combines a synchronous motor and frequency inverter in a decentralized drive unit and can be flexibly combined with any standard and servo gear unit from SEW-EURODRIVE. What's more, MOVIMOT® performance is compatible with all standard Ethernet-based infrastructures.

MOVIMOT® performance – variants and performance classes

Motor size	CM3C80S				CM3C80M	
Inverter assignment	0020	0025	0032	0040	0040	0055
Nominal output current of the inverter	2.0 A	2.5 A	3.2 A	4.0 A	4.0 A	5.5 A
Nominal torque	3.6 Nm	4.5 Nm	5.7 Nm	7.2 Nm	8 Nm	9 Nm

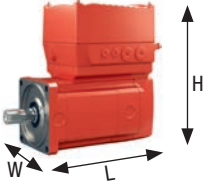
Gear unit variant	<ul style="list-style-type: none"> – Suitable for combination with all series 7 and 9 standard gear units – Can be combined with helical-bevel servo gear units
Brake variant	<ul style="list-style-type: none"> – Available with BZ3 brake – Option of manual brake release with automatic disengaging function – Capable of absorbing regenerative energy and thus replacing internal braking resistors
MOVILINK® DDI	<ul style="list-style-type: none"> – Contains an electronic nameplate with all the drive unit details – No startup necessary
Speed setting range	<ul style="list-style-type: none"> – 1:40 (without encoder) – 1:2000 (with encoder)
Encoder option	<ul style="list-style-type: none"> – Single-turn encoder /EZ2Z – Multi-turn encoder /AZ2Z
Overload capacity	<ul style="list-style-type: none"> – Up to 300% – Prevents oversizing in static operation – Reduces the installed size of the necessary supply infrastructure – Integrated overload protection device
Communication/installation variants	<ul style="list-style-type: none"> – DFC – direct fieldbus communication (PROFINET, EtherNet/IP™, Modbus TCP, POWERLINK/CiA 402) – DBC – direct binary communication – DAC – direct AS-interface communication – DSI – direct system bus installation (EtherCAT®/SBus^{PLUS}, EtherCAT®/CiA 402)
Digital and analog inputs/outputs	<ul style="list-style-type: none"> – DFC/DSI: Up to 4 digital inputs and up to 2 digital inputs or outputs – DBC: 4 digital inputs / 1 relay output and 1 analog input (0 – 10 V, 0 – 20 mA, 4 – 20 mA) – DAC: 4 digital inputs / 1 relay output

Optional plug connectors	<ul style="list-style-type: none"> – AC 400 V – supply with M15 or M23 plug connectors – Safe Torque Off (STO) with M12 plug connectors (A coded, 5-pin) – DC 24 V – backup voltage with M12 plug connectors (L coded, 5-pin) – M23 plug connectors for hybrid installation All plug connectors can also be used for further looping.
More options	<ul style="list-style-type: none"> – Optionally available as a brakemotor (incl. manual brake release) – Optionally available with the DynaStop® electrodynamic deceleration function
Functional safety	<ul style="list-style-type: none"> – integrated STO (Safe Torque Off) safety function to IEC 61800-5-2 – Safety Integrity Level 3 to EN 61800-5-2: 2017, EN 61508: 2010 – PL e to EN ISO 13849-1: 2015 – PROFIsafe and FSoE optional In preparation: CIP Safety
Certifications/conformity	CE (Europe) / CMIM (Morocco) / RCM (Australia) / UL-approved (USA and Canada) In preparation: EAC (Russia, Belarus, Kazakhstan) / UA.TR (Ukraine) /
Connection voltage	380 V – 500 V at 50/60 Hz (also available as IT system variant)

Energy-saving potential

Motor energy efficiency class to IEC 60034	Motor energy efficiency class \geq IE5 to IEC TS 60034-30-2
Drive system efficiency class to IEC 61800-9-2 (Power Drive System)	Meets the highest defined energy efficiency class IES2 to IEC 61800-9-2 for the system comprising motor and inverter

Dimensions and weight

	Motor size					
	CM3C80S			CM3C80M		
Decentralized inverter size	1	1	1E	1E	1E	1E
Decentralized inverter variant	Without cooling fins	Without cooling fins	With cooling fins	With cooling fins	With cooling fins	With cooling fins
Brake option	–	BZ3	–	BZ3	–	BZ3
Dimensions (L x W x H) in mm	145 x 307 x 298	145 x 348 x 298	168 x 307 x 318	168 x 348 x 318	168 x 333 x 318	168 x 374 x 318
Weight in kg	14.19	22.87	14.64	23.32	17.03	25.71

Surface protection	Optionally available with surface protection OS 1 or OS 2, others in the pipeline
Degree of protection	Standard: IP65 to EN 60529
Ambient temperature	-25 °C to +40 °C, up to 60 °C with derating