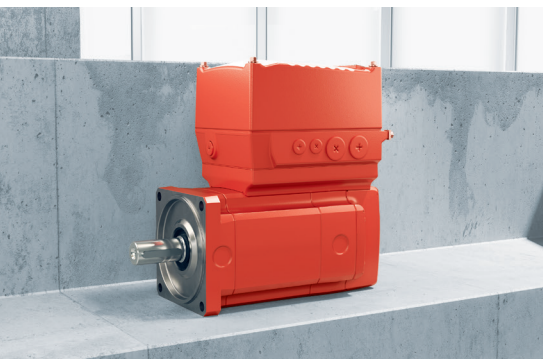


## The MOVIMOT® performance drive unit



### 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

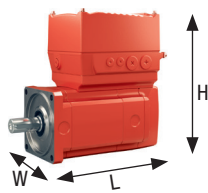
<b>Gear unit variant</b>	<ul style="list-style-type: none"> <li>– Suitable for combination with all series 7 and 9 standard gear units</li> <li>– Can be combined with helical-bevel servo gear units</li> </ul>
<b>Brake variant</b>	<ul style="list-style-type: none"> <li>– Available with BZ3 brake</li>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

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

### Energy-saving potential

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

### Dimensions and weight

	<b>Motor size</b>					
	<b>CM3C80S</b>			<b>CM3C80M</b>		
<b>Decentralized inverter size</b>	<b>1</b>	<b>1</b>	<b>1E</b>	<b>1E</b>	<b>1E</b>	<b>1E</b>
<b>Decentralized inverter variant</b>	Without cooling fins	Without cooling fins	With cooling fins	With cooling fins	With cooling fins	With cooling fins
<b>Brake option</b>	–	BZ3	–	BZ3	–	BZ3
<b>Dimensions (L x W x H) in mm</b>	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
<b>Weight in kg</b>	14.19	22.87	14.64	23.32	17.03	25.71

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