

## The MOVIMOT® advanced drive unit



### Drive unit consisting of asynchronous motor and integrated inverter

MOVIMOT® advanced is a true all-rounder that can be used for all conceivable applications – from intelligent conveyor axes and simple lifting axes to positioning axes. It combines an asynchronous motor and frequency inverter in a decentralized drive unit and can be flexibly combined with standard gear units from SEW-EURODRIVE. What's more, MOVIMOT® advanced is compatible with all standard Ethernet-based infrastructures.

Motor size	Star connection			Delta connection			Dimensions and weight (standard assignment in star connection)		
	Standard inverter assignment	Nominal torque	Nominal power	Standard inverter assignment	Nominal torque	Nominal power	Dimensions (L×W×H) mm	Weight without brake	Weight with brake
<b>DRN71M</b>	2 A (0020)	2.5 Nm	0.37 kW	2 A (0020)	1.8 Nm	0.55 kW	220×145×283	12.7 kg	15.1 kg
<b>DRN80MK</b>	2 A (0020)	3.7 Nm	0.55 kW	2.5 A (0025)	2.5 Nm	0.75 kW	239×148×303	15.0 kg	18.7 kg
<b>DRN80M</b>	2.5 A (0025)	5.1 Nm	0.75 kW	3.2 A (0032)	3.6 Nm	1.1 kW	285×148×303	19.7 kg	23.4 kg
<b>DRN90S</b>	3.2 A (0032)	7.5 Nm	1.1 kW	4.0 A (0040)	4.9 Nm	1.5 kW	279×172×326	24.4 kg	29.0 kg
<b>DRN90L</b>	4.0 A (0040)	10.2 Nm	1.5 kW	5.5 A (0055)	7.2 Nm	2.2 kW	311×172×346	27.6 kg	32.2 kg
<b>DRN100LS/LM</b>	5.5 A (0055)	15 Nm	2.2 kW	7.0 A (0070)	9.9 Nm	3.0 kW	307×197×364	36.0 kg	45.0 kg
<b>DRN100L4</b>	7.0 A (0070)	19.7 Nm	3.0 kW	9.5 A (0095)	13.2 Nm	4.0 kW	357×216×399	43.0 kg	49.0 kg
<b>DRN112M4</b>	9.5 A (0095)	26.3 Nm	4.0 kW	12.5 A (0125)	18.1 Nm	5.5 kW	385×221×412	54.0 kg	61.0 kg
<b>DRN132S4</b>	12.5 A (0125)	36.2 Nm	5.5 kW	16.0 A (0160)	24.7 Nm	7.5 kW	435×224×435	65.0 kg	80.0 kg
<b>DRN132M4</b>	16.0 A (0160)	49.4 Nm	7.5 kW	–	–	–	437×261×455	84.0 kg	101.0 kg

<b>Gear unit variant</b>	Suitable for combining with series 7 and 9 standard gear units
<b>Brake variant</b>	<ul style="list-style-type: none"> <li>– Available with all standard brakes of the DRN.. (230 V, 400 V) series</li> <li>– With optional manual brake release (lockable or disengaging)</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>– Star connection: 1:10 (without encoder), 1:1400 (with encoder)</li> <li>– Delta connection: 1:20 (without encoder), 1:2900 (with encoder)</li> </ul>
<b>Encoder option</b>	<ul style="list-style-type: none"> <li>– Single-turn encoder /EI8Z for positioning and extended speed setting range</li> <li>– Available: /EK8Z (for BG2/2E), /AK8Z (for BG2/2E), /EI7C-FS</li> <li>In preparation: <ul style="list-style-type: none"> <li>– /EK8Z (for BG1/1E), /AK8Z (for BG1/1E)</li> </ul> </li> </ul>

<b>Overload capacity</b>	<ul style="list-style-type: none"> <li>- Up to 210%</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> <li>- Fieldbus connection (depending on selected communication variant)</li> <li>- Digital inputs/outputs (depending on selected communication variant)</li> <li>- Plug connectors can also be used for further looping (depending on the power).</li> </ul>
<b>Additional options</b>	<ul style="list-style-type: none"> <li>- Optionally available as a brakemotor (incl. manual brake release)</li> <li>- Optionally available with integrated load disconnecter including feedback contact</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>- Optional: CSB51A for STO via PROFIsafe, CIP Safety, or FSoE</li> <li>- Optional: CSL51A for secure inputs, SLS and STO via PROFIsafe, CIP Safety, or FSoE</li> </ul>
<b>Certifications/conformity</b>	CE / CMIM / EAC / RCM / UA.TR / UKCA / UL approved
<b>Connection voltage</b>	380 V – 500 V at 50/60 Hz (also available as IT system variant)
<b>Energy-saving potential</b>	
<b>Motor efficiency to IEC 60034</b>	Corresponds with energy efficiency class IE3 to IEC TS 60034-30-2
<b>Drive system efficiency class to EN 50598-2 (Power Drive System)</b>	<ul style="list-style-type: none"> <li>- Meets the highest defined energy efficiency class IES2 to IEC 61800-9-2 for the system comprising motor and electronics</li> </ul>
<b>Surface protection</b>	Optionally available with surface protection OS1, OS2, OS3, or OS4
<b>Degree of protection</b>	Standard: IP54 to EN 60529
<b>Ambient temperature</b>	-30°C to +60°C (depending on the design)