

MOVIMOT® flexible decentralized inverter



For mounting close to the motor

MOVIMOT® flexible is available in two versions and five performance classes:

- MMF1.: Nominal output currents 2.0, 2.5, and 3.2 A as well as 4.0 and 5.5 A (with cooling fins) for 0.55 – 3.0 kW performance classes (depending on motor type; up to 7.5 kW in preparation)
- MMF3.: Nominal output currents 2.0, 2.5, and 3.2 A as well as 4.0 and 5.5 A (with cooling fins) for 0.55 – 3.0 kW performance classes (depending on motor type; up to 7.5 kW in preparation)

Optional items:

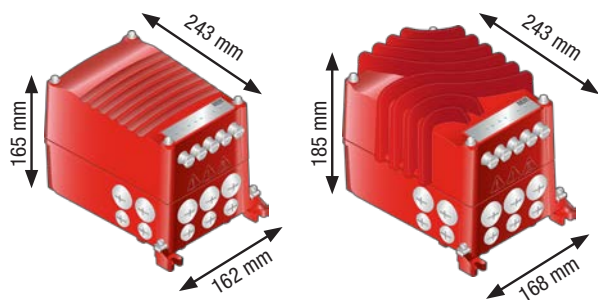
- Load disconnecter or load disconnecter with line protection
- M12 engineering interface or prepared for CBG21A keypad
- Key switch with feedback contact

Motor types	<ul style="list-style-type: none"> – SEW synchronous and asynchronous drives – Third-party motors
Encoder evaluation	Evaluation of all SEW-EURODRIVE motor encoders with DDI interface
Control modes	<ul style="list-style-type: none"> – V/f: highly robust for asynchronous motors without encoders – VFC^{PLUS}: extremely versatile for asynchronous motors with and without encoders – CFC: highly dynamic for asynchronous and synchronous motors with encoders – ELSM[®]: highly efficient for synchronous motors without encoders
Overload capacity	<ul style="list-style-type: none"> – Up to 300% of I_N – Prevents oversizing in static operation – Reduces installed size of necessary supply infrastructure
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	<p>DFC/DSI: 4 digital inputs (for MMF3 only: optional up to 7 digital inputs) and 2 digital in- or outputs</p> <p>DBC: 4 digital inputs / 1 relay output and 1 analog input (0..10 V, 0..20 mA, 4..20 mA)</p> <p>DAC: 4 digital inputs / 1 relay output</p>
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 <p>All plug connectors can be used for further looping.</p>
Brake control option	<ul style="list-style-type: none"> – Integrated HV brake control for 120 V, 230 V, and 400 V – Third-party brake control – 24 V brake control
DynaStop® option	DynaStop® electrodynamic retarding function (/DSP)
MOVILINK® DDI digital data interface	<p>High-performance digital data connection between motor and inverter</p> <ul style="list-style-type: none"> – /DI features integrated DDI interface for connecting temperature sensor – /CO features data connection using coaxial cable with DDI interface on motor (evaluation of motor temperature, encoder signals, and electronic nameplate)

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) / RMC (Australia) / UA.TR (Ukraine) / MMF1: UL-approved (USA and Canada) In preparation: EAC (Russia, Belarus, and Kazakhstan) / MMF3: UL-approved (USA and Canada)
Connection voltage	380 V – 500 V at 50/60 Hz

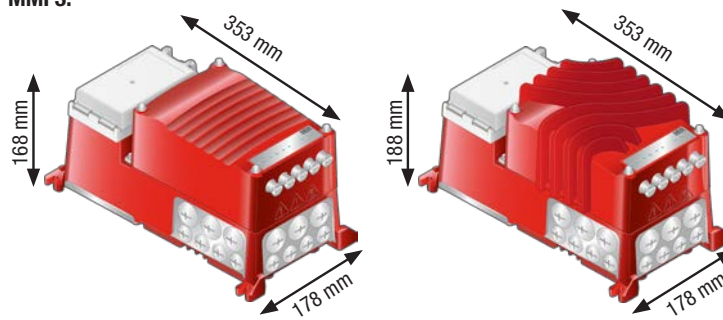
Dimensions and weight

MMF1.



4 – 4.5 kg*

MMF3.



5 – 5.5 kg*

*Depending on inverter

Ambient conditions

Degree of protection	IP65 according to EN 60529
Ambient temperature	-25 °C to +60 °C (reduction in power from 40 °C)