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MOVI-C® modular automation system for decentralized installations – portfolio overview



Consistent – connected – complete

The new product portfolio is based on the decentralized inverter, which is the same for all products in the decentralized MOVI-C® range. The inverter can be both integrated into or installed close to the motor.

Highlights of the new decentralized product portfolio

Consistency	MOVI-C® allows users to switch between control cabinet installation and decentralized installation. The consistency of the functions and features is not dependent on the product family or type of installation.		
Modularity		for all product families, regardless of whet he perfect complement to the control cabin	
Flexibility	The decentralized product portfolio	provides flexible support for connections t	to various higher-level systems.
Top left: Single-axis automation	Etheritet/IP #flodbus	EtherCAT EtherCAT	
DFC - Direct Fieldbus Communication	3× AC 400 V	3× AC 400 V EtherCAT* CLAQ7FS0E	
(PROFINET, EtherNet/IP™, Modbus TCP)			
DBC - Direct Binary Communication		7	
DAC – Direct AS-Interface Communication			
Top right: Motion slave		a=i a=i •¶= a=i <u>≥</u>	
DFC – Direct Fieldbus Communication		U -	
(POWERLINK CiA402)	EtherNet/IP ************************************	Ether/let/IP	Modbue Sta
DSI – Direct System Bus Installation	3× AC 400 V EtherCAT*/SBus****	3× AC 400 V EtherCAT*/SBus****	
(EtherCAT® / CiA 402)			
Bottom: Motion/automation control			
DSI – Direct System Bus		770000000000000000000000000000000000000	
Installation (EtherCAT®/SBus ^{PLUS})			
Simple installation	On the supply side, installation is r gration when installed close to the	nade easier using terminals or plug connect motor (single-cable technology).	ctors, along with digital motor inte-
Maximum energy efficiency		s of any efficiency class means energy efficiency class IE5 to IEC TS 6 IEC 61800-9-2.	
Performance class of the decentralized inverter	2 A, 2.5 A, 3.2 A, 4 A, and 5.5 A (7 A, 9.5 A, 12.5 A,16 A in prepara	ation)	
Integrated, decentralized inverter	••••	••••	
	MOVIMOT® advanced	MOVIMOT® performance	MOVIGEAR® performance
	asynchronous motors (IE3)	Synchronous motors (Synchronous motors (≙ IE5)
	0.55 – 2.2 kW nominal power	4 – 9 Nm rated torque classes	0.8 – 2.2 kW nominal power
	(more sizes in preparation)	(more sizes in preparation)	or $4-10$ Nm rated-torque classes
Decentralized inverter	MOVIMOT® flexible	MMF1. MMF3.	
installed close to motor	2 A – 5.5 A nominal		0.00
	output current, up to 300%		

Additional designs in preparation

Can be combined with all SEW motors

overload capacity (more sizes in preparation)

Technical data

Speed control range 1:40 (without encoder)

Options

lechnical data			
MOVI-C® decentralized inverter	Inverter that can be installed near or directly on the motor in the field		
Size and power	- Size 1: 2, 2.5, 3.2 A In preparation, size 2: 7 A, 9.5 A - Size 1E: 4, 5.5 A In preparation, size 2E: 12.5 A,16 A		
Overload capacity	300%		
Communication versions	DFC – Direct Fieldbus Communication (PROFINET, EtherNet/IP™, Modbus TCP, POWERLINK/ CiA402) – 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	DFC / DSI: Up to 4 digital inputs and up to 2 digital inputs or outputs For MMF3 only: Up to 8 digital inputs and up to 2 digital inputs or outputs DBC: 4 digital inputs / 1 relay output and 1 analog input (010 V, 020 mA, 420 mA) DAC: 4 digital inputs / 1 relay output		
Options	Brake control CSB51A (STO, SS1c) integrated safety technology		
MOVIGEAR® performance (≙ IE5)	Drive unit consisting of permanent-magnet motor, gear unit and decentralized inverter		
Size and power	- MGF2-C: Torque class: 200 Nm, nominal power of up to 0.8 kW - MGF4-C: Torque class: 400 Nm, nominal power of up to 1.5 kW - MGF4-C/XT: Torque class: 400 Nm with extended continuous torque, nominal power of up to 2.1 kW		
Output speed range	- MGF2-C: 0.9 - 593 min ⁻¹		

MOVIGEAR® classic (≙ IE5)	Drive unit consisting of gear unit and synchronous motor (can be combined with decentralized inverter installed close to the motor or with control cabinet technology from the MOVI-C® modular automation system)
Size and power	 MGF1-DSM-C: 100 Nm torque class; nominal power of up to 0.4 kW MGF2-DSM-C: 200 Nm torque class; nominal power of up to 0.9 kW MGF4-DSM-C: 400 Nm torque class; nominal power of up to 2.1 kW MGF4-DSM-C/XT: 400 Nm torque class with extended continuous torque; nominal power of up to 3 kW
Output speed range (at n _e =2000 min ⁻¹)	 MGF1-DSM-C: 35.7 – 555 min⁻¹ MGF2-DSM-C: 36.2 – 593 min⁻¹ MGF4-DSM-C/ MGF4-DSM-C/XT: 35.4 – 566 min⁻¹

- MGF..4-C/ MGF..4-C/XT: 0.9 - 566 min⁻¹

DynaStop® electrodynamic retarding function (/DSP)

- Multi-turn absolute encoder /AZ1Z (extended control range 1:2000)

MOVIMOT® flexible	Decentralized inverter for installation close to the motor	
Size and power	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)	
Options	 Load disconnector or load disconnector with line protection M12 engineering interface or prepared for CBG21A keypad Key switch with feedback contact 	

Technical data

MOVIMOT® advanced (IE3)	Drive unit consisting of asynchronous motor and integrated decentralized inverter	
Size and power	DRN71M to DRN100LS (star connection): - Nominal torque of 2.5 Nm to 15 Nm - Nominal power of 0.37 kW to 2.2 kW - Nominal output current (inverter) of 2.0 A to 5.5 A DRN71M to DRN90L (delta connection): - Nominal torque of 1.8 Nm to 7.2 Nm - Nominal power of 0.55 kW to 2.2 kW - Nominal output current (inverter) of 2.0 A to 5.5 A	
Options	 Suitable for combination with all series 7 and 9 standard gear units Optionally available as a brakemotor (incl. manual brake release) Optionally available with integrated load disconnector (including feedback contact) Optionally available with single-turn encoder /EI8Z (others in preparation) 	
MOVIMOT® performance (≙ IE5)	Drive unit consisting of synchronous motor and integrated decentralized inverter	
Size and power	- CM3C80S: 3.6 Nm to 7.2 Nm nominal torque; 2.0 A to 4.0 A nominal output current (inverter) - CM3C80M: 8.0 Nm to 9.0 Nm nominal torque; 4.0 A to 5.5 A nominal output current (inverter)	
Options	 Suitable for combination with all series 7 and 9 standard gear units and all servo gear units Optionally available as a brakemotor (incl. manual brake release) Optionally available with the DynaStop® electrodynamic deceleration function Optionally available with single-turn encoder /EZ2Z or multi-turn encoder /AZ2Z 	



The added value for you

One manufacturer, one end-to-end solution for your application! The MOVI-C® modular automation system offers complete solutions from a single source. The new decentralized products from the MOVI-C® modular automation system complement the existing portfolio in terms of functionality and consistency and extend the range of possible applications for our decentralized drive technology, which has been proving its worth for almost 90 years.