

MOVI-C® with digital motor integration

MOVILINK® DDI – enable connectivity and digitalization

Frequency inverters					Decentralized technology				
Control cabinet technology	MOVITRAC® advanced <small>Planned</small>	MOVIDRIVE® system	MOVIDRIVE® technology	MOVIDRIVE® modular	MOVIMOT® flexible	MOVIMOT® advanced <small>Planned</small>	MOVIMOT® performance <small>Planned</small>	MOVIGEAR® performance	
Brief description	Standard inverter for plant automation	Application inverter for single-axis automation in conjunction with MOVIDRIVE® modular	Application inverter for single-axis automation	Application inverter for multi-axis automation	Decentralized inverter with field distributor function	Asynchronous motor with decentralized inverter	Synchronous motor with decentralized inverter	Drive unit consisting of synchronous motor, gear unit, and decentralized inverter	
Synchronous motor operation									
Asynchronous motor operation									
Power rating	0.25 – 315 kW	0.55 – 315 kW	0.55 – 315 kW	0.6 – 90 kW	0.55 – 3 kW (depending on motor type; up to 7.5 kW in preparation)	0.37 – 2.2 kW (3 – 7.5 kW in preparation)		0.75 – 2.2 kW	
I_{output}	1 – 588 A	2 – 588 A	2 – 588 A	2 – 180 A	2.0 – 5.5 A (7 – 16 A in preparation)			2.0 – 5.5 A	
AC supply voltage	3 × 380 – 500 V / 3 × 200 – 240 V / 1 × 200 – 240 V	3 × 380 – 500 V	3 × 380 – 500 V	3 × 380 – 500 V	3 × 380 – 500 V				
Overload	150% for 30 s	200% for 3 s	200% for 3 s	250% for 1 s	Up to 300% for 5 s	Up to 210%	Up to 300% for 5 s		

Connection technology

Single-cable technology – one cable (cable cross-section) can be used for all drives

Hybrid cable with combination of motor power / braking power / MOVILINK® DDI coaxial cable

4 × 1.5 mm ²	4 × 1.0 mm ²	RG58
4 × 2.5 mm ²	4 × 1.0 mm ²	RG58
4 × 4.0 mm ²	4 × 1.0 mm ²	RG58
4 × 6.0 mm ²	4 × 1.5 mm ²	RG58
4 × 10.0 mm ²	4 × 1.5 mm ²	RG58

Variants

Cable design for frequency inverter

- M40 plug connector
- M23 plug connector
- Power open with Fakra connector

Cable type

- Fixed installation
- Cable carrier installation

Cable cross-section

- > 16 mm² Planned
- 6 – 10 mm²
- 1.5 – 4 mm²
- Single coax Planned

Type of connector for drive

- M40 plug connector Planned
- Cable gland (terminal box)
- M23 plug connector

Multi-cable technology Planned

Triaxial MOVILINK® DDI data cable

Power (motor and brake)

Asynchronous motors		Synchronous motors				Linear motors	
DRN71 – 132S (– 315)	DR2.71 – 80 (– 225)	CMP(40) 50 – 100 (112)	CM3C63 – 100	MOVIGEAR® classic	MOVIGEAR® performance	SLC <small>Planned</small>	SL2 <small>Planned</small>
<p>Sensor technology*</p> <ul style="list-style-type: none"> <p>Encoder</p> <ul style="list-style-type: none"> EI8Z, 12 bit EK8Z, > 18 bit AK8Z, > 18 bit (AI8Z, 12 bit) <small>Planned</small> <p>Auto startup <small>Planned</small></p>		<p>Sensor technology*</p> <ul style="list-style-type: none"> <p>Encoder</p> <ul style="list-style-type: none"> AZ2Z, 12 bit (AZ4Z, 18 bit) <small>Planned</small> EZ2Z, 12 bit (EZ4Z, 18 bit) <small>Planned</small> <p>Auto startup <small>Planned</small></p>				<p>Sensor technology*</p> <ul style="list-style-type: none"> <p>Encoder</p> <ul style="list-style-type: none"> AZ1Z, 12 bit (AZ3Z, 18 bit) <small>Planned</small> <p>Auto startup <small>Planned</small></p>	

Key

Motor monitoring	
– Vibration, temperature	
Gear unit monitoring	
– Vibration, temperature, oil condition	
Intelligent brake rectifier	
– Brake control, temperature, wear	
Control without encoder	
Incremental encoder	
Single-turn absolute encoder	
Multi-turn absolute encoder	
Functional safety possible	
Electronic nameplate	
Planned function	

