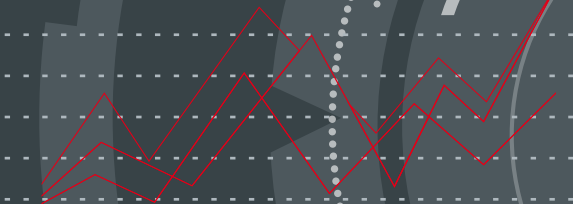


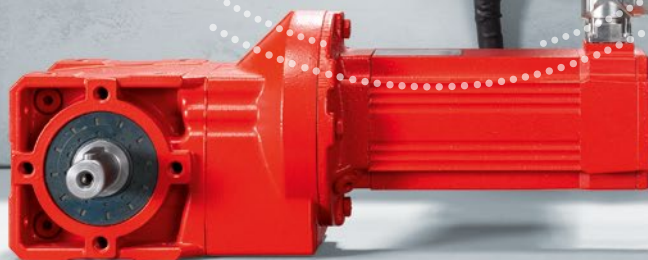
MOVI-C® goes DriveRadar®

Digital motor integration with MOVILINK® DDI –
enable connectivity and digitalization

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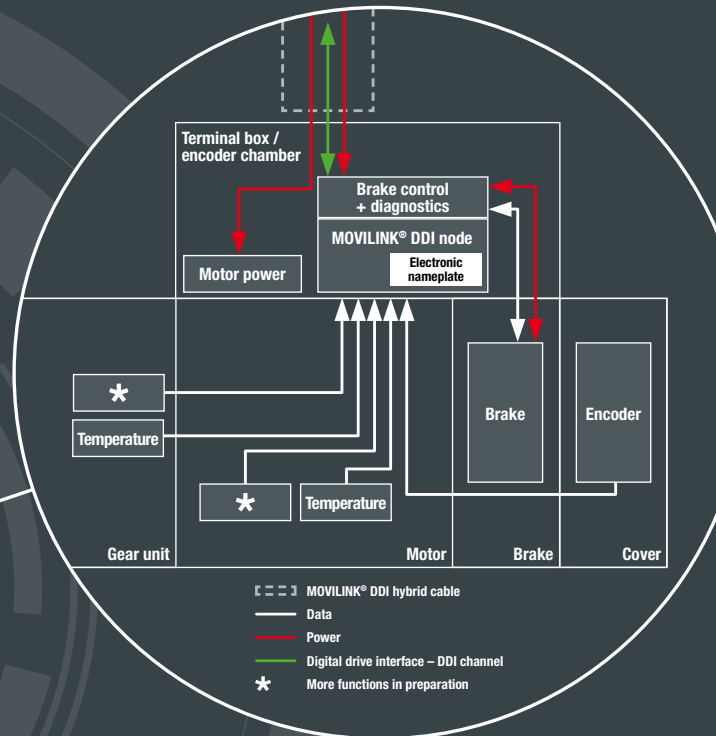
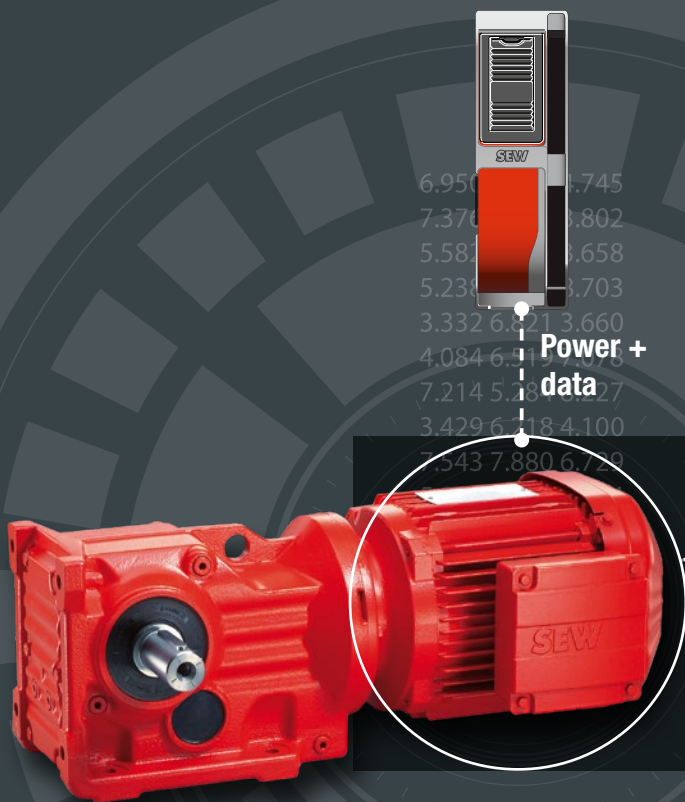


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7.376 8.919 3.802
5.582 4.351 3.658
5.238 4.808 8.703
3.332 6.821 3.560
4.084 6.519 7.078
7.214 5.284 8.227
3.429 6.218 4.100
7.543 7.880 5.729
5.904 6.570 6.844



Improving system availability with DriveRadar®

The umbrella brand DriveRadar® combines intelligent and scalable services for a smart, networked factory. Thanks to these services, users can monitor and analyze simple electromechanical components, individual process steps, or entire systems. This makes it possible to predict the condition of systems and schedule maintenance work. DriveRadar® significantly improves product and system availability (OEE). Drives need to communicate more to share and interpret information and data. This is exactly where digital motor integration comes in.



MOVILINK® DDI digitalizes drives

With MOVILINK® DDI – digital motor integration from the MOVI-C® modular automation concept – you can make functions your factory will need in the future a reality right now. The basis for this is our single-cable technology, which we use to connect drives to power and data.

All inverters forming part of the MOVI-C® modular concept are equipped with MOVILINK® DDI communication technology. The drives are given a MOVILINK® DDI data node that acts as the digitalization hub. All communication between drive and inverter takes place via this data node, as does control of the numerous MOVILINK® DDI options.

MOVILINK® DDI – digital motor integration

Your benefits

- DriveRadar® from SEW-EURODRIVE is supported by a digitalized drive
- Connectivity system for motor, inverter, encoder, brake, sensor, and other options
- Optimized parts logistics
- A single cable for all motors and drives
- Significantly shorter installation times
- Plug & play thanks to automatic startup
- Electronic nameplate with digital twin
- Fully integrated motor temperature management
- Integrated connection of encoders in all performance classes
- Brake by wire – digital control of working and holding brakes*
- Direct monitoring of braking system wear*
- Optional condition monitoring integrated in motor*
- Intelligent self-diagnosis functions – from bearing monitoring to sensors for oil aging and mounting position*

* In preparation



For more information about DriveRadar[®], MOVILINK[®] DDI,
and the extensive service and product portfolio, please visit
www.sew-eurodrive.com

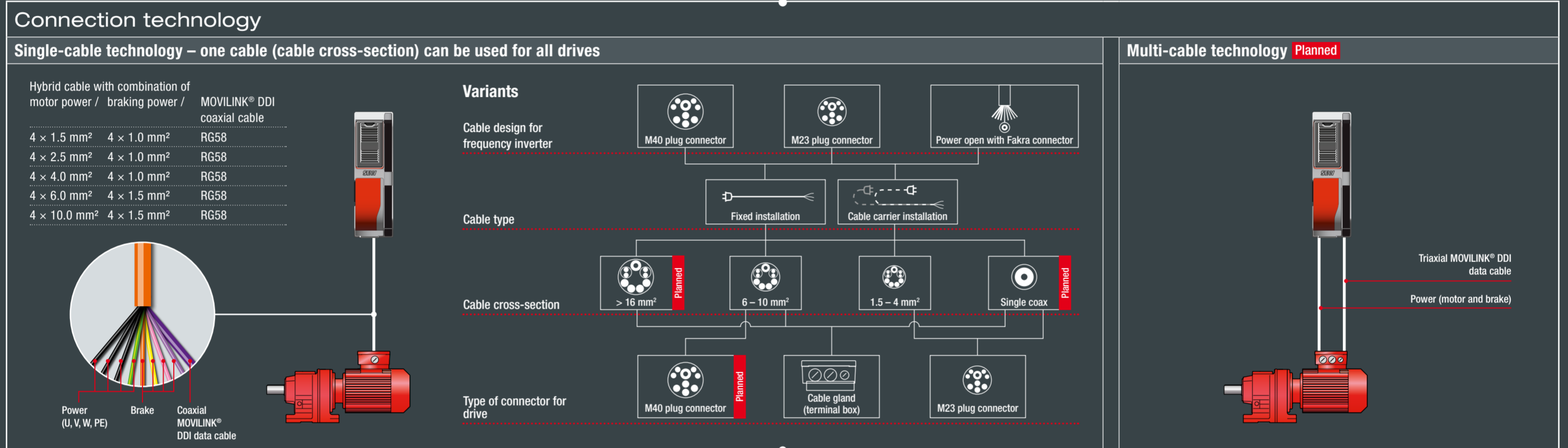


www.sew-eurodrive.com

MOVI-C® with digital motor integration

MOVILINK® DDI – enable connectivity and digitalization

Frequency inverters					Decentralized technology				
Control cabinet technology	MOVITRAC® advanced Planned	MOVIDRIVE® system	MOVIDRIVE® technology	MOVIDRIVE® modular	MOVIMOT® flexible	MOVIMOT® advanced	MOVIMOT® performance Planned	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		



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 Planned	SL2 Planned		
<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) Planned <p>Auto startup Planned</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) Planned EZ2Z, 12 bit (EZ4Z, 18 bit) Planned <p>Auto startup Planned</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) Planned <p>Auto startup Planned</p>		<p>Encoder</p> <ul style="list-style-type: none"> (EL3Z, < 1 mm) Planned <p>Auto startup Planned</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 **Planned**

