AMKmotion
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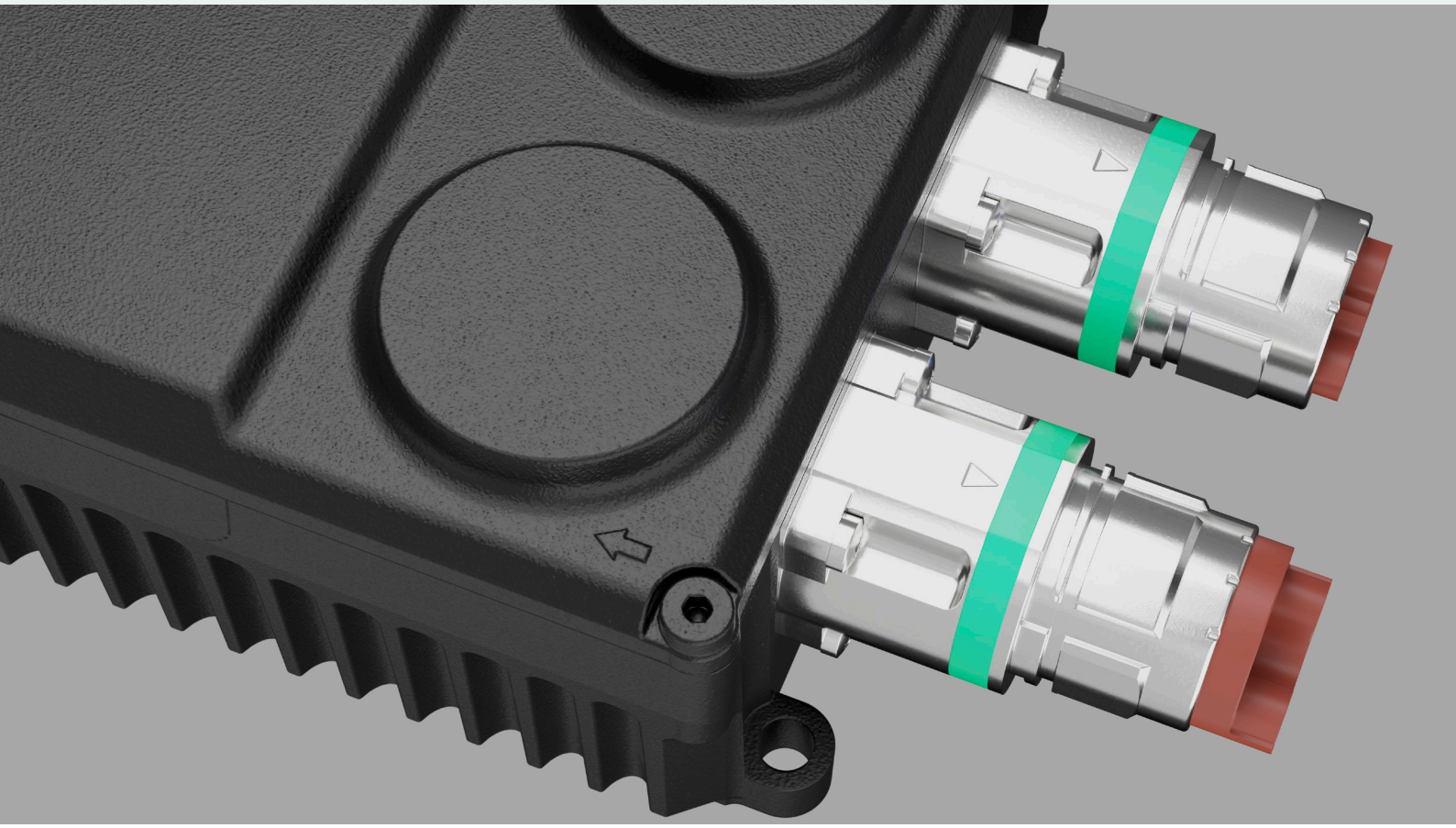
Decentralized drive technology

ihD

Decentralized servo inverter with hybrid cable connection



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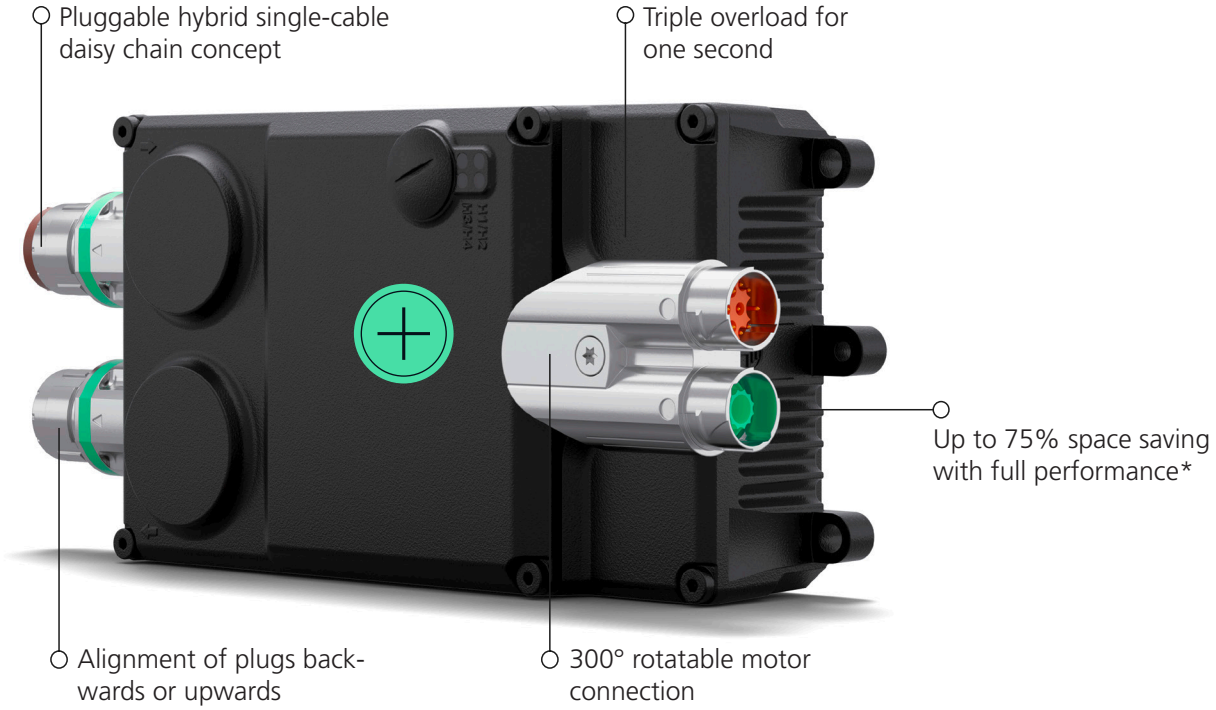


For installation close to the motor

With its lightweight aluminum housing, the decentralized servo inverter ihD is shock and vibration resistant. As the ihD does not require a switch cabinet even in harsh environments thanks to its IP65 protection class, it is quick to install in decentralized environments.

Simply in series

The user can wire several servo inverters together based on the daisy chain concept. Here, the DC bus, STO, 24V and fieldbus are applied to the ihD via a single cable and forwarded to other decentralized drives by way of a daisy chain set-up.

STO “Safe Torque Off”

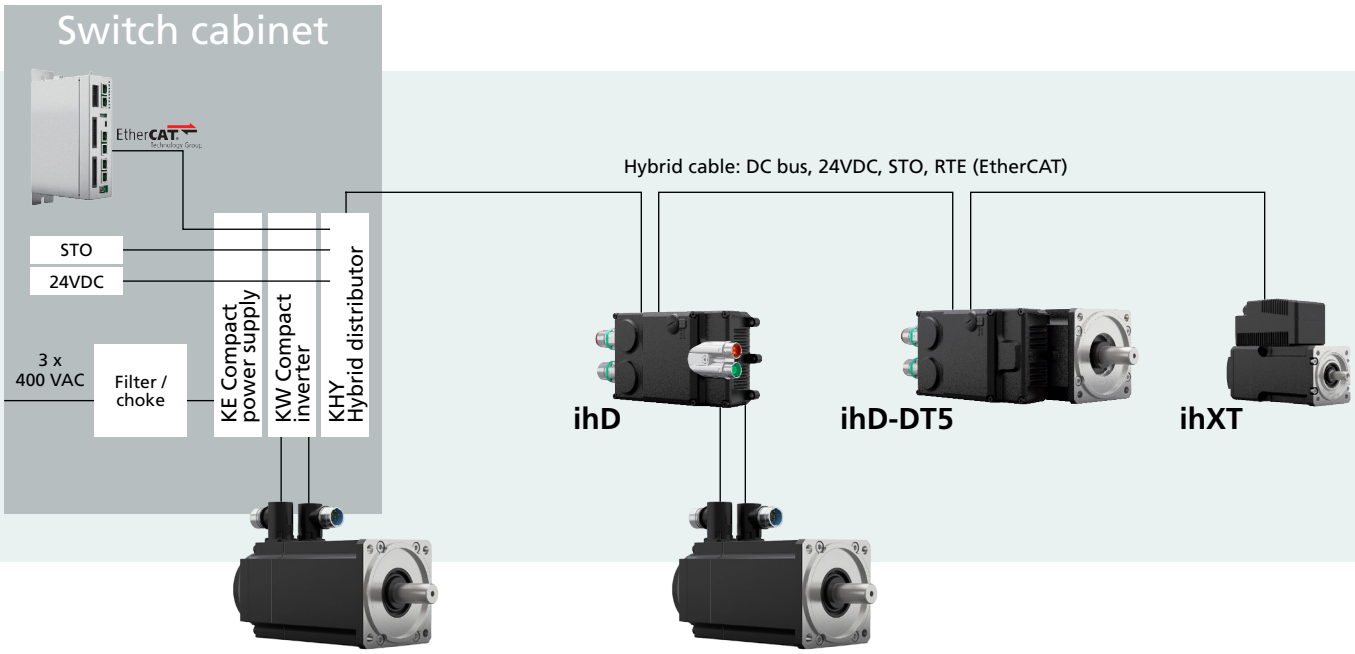
The devices are integrated in an STO circuit via the hybrid cable as standard. Optionally, devices are available in which the STO connection is implemented separately from the hybrid cable via M12 plugs – the “Selective STO” option.

Reduced complexity

The looping through of the power supply and communication lines is reduced to a single cable, thereby minimizing the amount of cabling required – even in the case of complex machines. The decentralized servo inverter ihD is ideal for modular machine and plant engineering.

*In the stand-alone version

System structure



Type code

ihD X - X X - X X X - X X

Plug options
11: M23 hybrid plug, top, straight
21: M23 hybrid plug, rear, straight

Hardware options
2: Hardware for control software (2nd gen.)

Safety configuration
0: STO via hybrid plug
K: Selective STO

Communication with controller
E: EtherCAT

Motor and encoder plugs
0: Without plug (surface-mounted version on motors)
Y:Y-Tec plug

Cooling
0: Cold plate

Power output
5: 5 kVA

Technical data

Servo inverter type	ihD5-0Y-xx2-xx
Cooling type	Cold plate
Rated output power [kVA]	5
Output current [Arms]	8.2
Maximum output current (duration <1s)	22
Output voltage (sinusoidal)	3 x 350 V
Output frequency	0 – 599 Hz
Input voltage DC bus [Vdc]	300 – 720
DC bus switch-off threshold [Vdc]	850
Rated current DC bus connector [Arms]	25
Supply voltage electronics	24V +/-15%
Power consumption electronics (without brake)	<200 mA
Efficiency of motor electronics	98%
Brake supply voltage	24V +/-15%
Current consumption holding brake max. [A]	1
Protection class	IP65
Dimensions (LxWxH) not including sockets/plugs	165x100x60

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