

Integrated three phase synchronous drives HBI



Brushless three phase synchronous drives with powerful motor systems and integrated electronics for operation at selective 24VDC or 48VDC.

With their pleasing "motor only" design these compact drives are well suited for peripheral application in single or multi axes systems.

Due to the high resolution evaluation of rotor angle based on a hall system the HBI drives become real dynamic servo systems. Combined with the motors sinusoidal current feed a constant and even torque development is assured and excellent control properties are achieved.

The HBI's are operated either by analogue / digital signals in speed mode and torque mode or via the CAN-open interface providing profile position, profile velocity or profile torque mode. The profil position mode supports absolute and relative demands. Homing is done onto the limit switches, against a mechanical stop or at the current position.

The electrical connection is done through a compact rotary connector equipped with one or two plugs depending on the drives version.

The drives configuration is done via RS232 and a clear and simple to use PC-Software "DSerV".

Technical properties:

	HBI 2230	HBI 2260	HBI 2630	HBI 2660
input voltage	24 V_{DC} or 48V_{DC}			
rated speed	3000 rpm			
maximum speed	6000 rpm	4000 rpm	6000 rpm	4000 rpm
rated torque	0,17 Nm	0,28 Nm	0,28 Nm	0,51 Nm
peak torque	0,34 Nm	0,56 Nm	0,56 Nm	1,02 Nm
rated power	53 W	90 W	90 W	160 W
flange dim.	45 x 45mm		55 x 55mm	

Peripheral operation, minimized installation needs

Versions for operation at 24VDC and 48VDC

Compact and powerful design

Versions with CAN-open interface acc. to CiA DSP 402 V2.0

Versions with incremental output 1024/rev. RS422

A-,B-,Z-signal

Dynamic speed control and positioning

To combine with planetary gear GPK45/55 (1-, 2-stages; up to i=49:1)

Parking brake available

High protection class IP54 (IP65 as an option)

Maintenance free and robust

Customer specific design