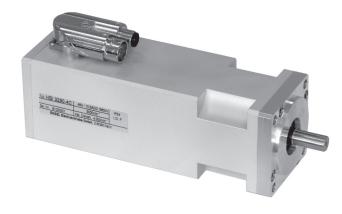


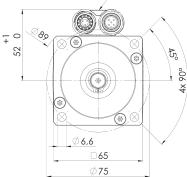
HBI 32

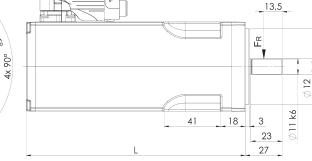
Integrated **Synchronous** Servo Drive

positioning capability up to 360 Watts rated output power with linear hall sensor system with or without parking brake



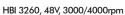
Connector 300° rotatable

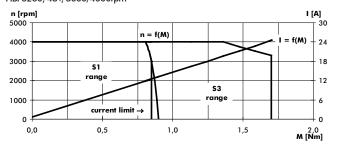




Dimension L
160
190
190
220

Operation characteristics: Measured at 48VDC





Description:

Brushless Synchronous Servo Drives with powerful concentrated winding motor systems and integrated electronics for operation at 48VDC (24VDC as an option).

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

The HBI's are operated either by analogue/digital signals or via the CAN interface that supports CANopen as a standard and DeviceNet as an option.

The CANopen interface provides profile torque mode, profile velocity mode and profile position mode as well with either linear or jerk free velocity ramps

The profile position mode supports absolute and relative demands. Homing is done onto limit switches, mechanical stop or at the current position.

Features:

- Peripheral operation, less effort to install
- Stand alone operation with analogue speed setpoint
- Compact and powerful ۰
- Positioning capability
- Protection class IP54 (IP65 as an option)

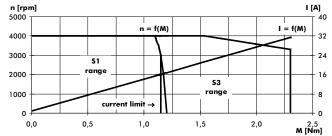
Options:

- DeviceNet
- 1-/2-stage planetary gear
- Customized executions

edition 06.17

ENGEL Elektroantriebe GmbH • Am Klingenweg 10 • D-65396 Walluf Telefon +49 6123 9942-0 • Telefax +49 6123 9942-50 • info@engelantriebe.de • www.engelantriebe.de

HBI 3290, 48V, 3000/4000rpm



55]

The rotor position is evaluated through a linear hall sensor system. The sinusoidal motor current feed leads to smooth and constant torque development.

A rotatable angled connector feeds both power supply and signals to the HBI. Executions supporting CAN and incremental signals are equipped with an additional M12 connector

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

- Parking brake

HRI 32

type series max. speed		HBI 3260	HBI 3290	
		-		
	rpm	4000	4000	
bus voltage	VDC	48	48	± 20%
		3000	3000	1 20 /8
nominal speed nominal current	rpm			
	ADC	8,0	10,5	
nominal power ^{2)*)}	W	265	360	
operation acc. to VDE 0530		S1		
protection acc. to VDE 0530		IP 5		
otating direction		revers		
structural shape acc. to VDE 0530		IM B5 - with alignm		
kind of connection		connectors (s		
nechanical data:				
noment of inertia motor	kgm ²	0,045*10-3	0,06*10 ⁻³	
nominal torque ^{2) *)}	Nm	0,85	1,15	
beak torque *)	Nm	1,7	2,3	
peed regulation constant	N ⁻¹ cm ⁻¹ rpm	3,5	2,1	
nechanical time constant	ms	1,9	1,5	
	Nm		0,06	
riction torque		0,05	-	
otor weight	kg	0,4	0,55	
otal weight	kg	2,15	2,7	
oall bearings	A/B-side	6201/6200	6201/6200	
_R (allowable radial shaft load) ³⁾	N	100	100	
allowable axial shaft load)	N	40	40	
electrical data:				
number of phases		3	3	
number of poles		6	6	
erminal resistance 4)	Ω	0,22	0,14	
nductance 4)	mH	0,33	0,25	
voltage constant ^{1) *)}	V/1000 rpm	8,7	9,1	
torque constant ^{1) *)}	Nm/A	0,072	0,075	
electrical time constant	ms	1,5	1,8	
hermical data:	1115	1,5	1,6	
		10	40	
nax. ambient temperature	°C	40	40	
solation acc. to VDE 0530		F	F	
hermal time constant	min	15	17	
emperature-rise n.v.	K/W	1	0,85	
parking brake:				
tatic brake torque	Nm	3,5	3,5	automatically activated
oower	W	12	12	
mass moment of inertia	kgm ²	0,018*10 ⁻³	0,018*10 ⁻³	
notor weight incl. parking brake	kg	2,7	3,25	
signal interfaces:				
0				
analogue input AE1		± 10V, 10Bit, Ri=20kOhm		setpoint setting
		, , .		
digital inputs	DE1	0,0V ≤ Uoff ≤ 5,0V		DE1 = enable
	DE3	$15,0V \le Uon \le 30V$		DE2/3 = function configurable
	DLJ	13,01 2 001 2 301		DE2/3 - Ionchon conligorable
	DAI	241/ 50-24 - 0		function configurable
ligital outputs	DA1	24V, 50mA, o.C.		function configurable
	DA2			e.g. ready, speed indication
				also to be used as an input
serial interfaces	RS232	9600B	Baud	for "DserV" software communication
	CAN	max. 800kbit/s	s, ISO11898	CANopen, DeviceNet (optional)
connectors:				
angled connector, rotatable 300°	1	Serie 615 ytec / ited	(INTERCONTEC)	

*) Tolerance - 10 % 1)

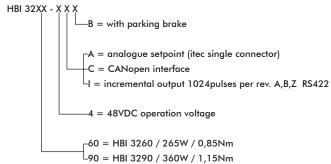
Sinusoidal-peak

2) Values are for motor-assembling on a locating face of aluminium of at least 0,15 m² at a thickness of 10 mm or similar metal face.

3) Middle of the shaft-extension.

4) Measured between two phases.

Order code:



Accessoirs (optional):

- connecting cable supply / signals assembled 2m / 5m
- connecting cable CAN assembled 6m
- connecting cable incremental signals assembled 5m