

BCI motor.

BCI-52.XX

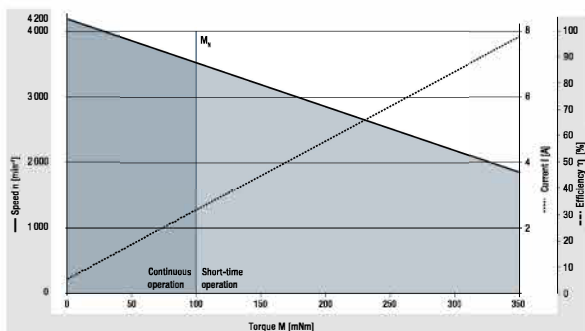


- Direct current motor with permanent magnets made of ceramic bound ferrite
- Mechanical commutation through 12-piece collector
- Closed steel motor housing with die-cast zinc bearing flanges
- Operation in both directions of rotation
- Service life 3 000 h for continuous operation (S1)
- Insulation class B
- Protection class IP 40, optionally higher

Nominal data					
Type		BCI-52.30-A00	BCI-52.30-B00	BCI-52.60-A00	BCI-52.60-B00
Nominal voltage (U_{BN})	V DC	12	24	12	24
Nominal speed (n_N)*	rpm	3 600	3 600	3 100	3 100
Nominal torque (M_N)*	mNm	100	100	170	170
Nominal current (I_{BN})*	A	4.80	2.20	6.40	3.00
Nominal output power (P_N)*	W	38	38	55	55
Rated efficiency, approx. (η_N)	%	66	71	72	77
Free-running speed (n_f)	rpm	4 200	4 200	3 500	3 500
Free-running current (I_{BL})	A	0.48	0.30	0.60	0.40
Starting torque (M_A)	mNm	550	650	800	980
Starting current (I_A)	A	20.8	12.0	27.6	16.0
Induced voltage (U_{imax})	V/1 000 rpm	2.78	5.60	3.04	6.40
Connection resistance (R_v)	Ohm	0.58	2.00	0.44	1.50
Connection inductance (L_v)	mH	0.90	3.60	1.10	4.70
Rotor moment of inertia (J_R)	kgm ² x 10 ⁻⁶	23	23	46	46
Heat resistance (R_{th})	K/W	3.20	3.20	3.30	3.30
Protection class**		IP 40			
Permissible ambient temperature range (T_U)	°C	0 ... +40			
Weight	kg	0.90	0.90	1.10	1.10
Order no.		on request	931 5230 001	on request	931 6325 070
Subject to alterations		* at T_U max. 40°C ** Classification of protection class refers to installed state with sealing on the flange side			

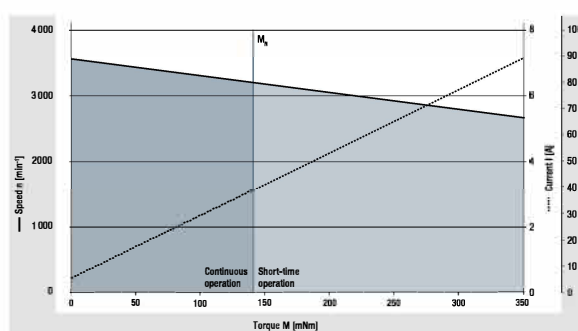
Characteristic curve

BCI-52.30, 24 V (at 25°C)



1) Nominal data, see table

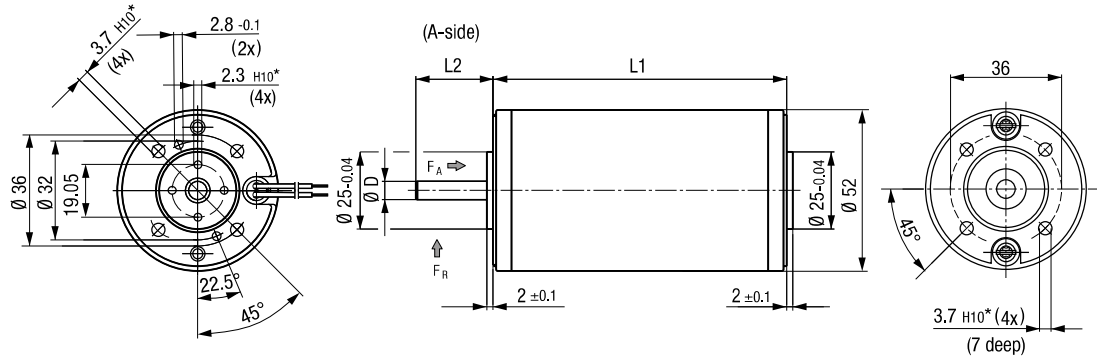
BCI-52.60, 24 V (at 25°C)



1) Nominal data, see table

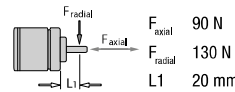
Technical drawing

Image standard type / All dimensions in mm



Shaft dimensions	ØD (A-side)	L2 (A-side)	ØD (B-side)	L (B-side)
Standard type	6 _{g5}	25,0 mm	--	--
Preferred type	6 _{g5}	18,2 mm	6 _{g5}	15 mm

Type	L1
BCI-52,30	95 ± 0,5
BCI-52,60	125 ± 0,5



* Blind holes for thread-forming screws according to DIN 7500

Electrical connection

Connection cable

Color	Function	
red	Power supply (+)	Cable length 300 ± 30 from motor Cable end 7 ± 2 stripped and tin-coated
black	GND (-)	

Change of the rotating direction is possible by polarity reversal of the wires

Modular construction kit

Brake system Spring-applied braking BFK 457-02 (page 48)		Encoder system Magnetic encoder system PMG 2-X (page 50) Optical incremental encoder HEDS 5500 / PWB AE30 (page 52)	Basic motor Planetary gearhead Performax® 52 (page 24)
---	--	--	---

For motor-gearbox combinations, depending on the choice of the single components, the maximum allowable torque (gearbox) can be exceeded or respectively not reached.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ebm-papst:](#)

[BCI-52.60-B00](#)