

BCI motor.

BCI-52.XX

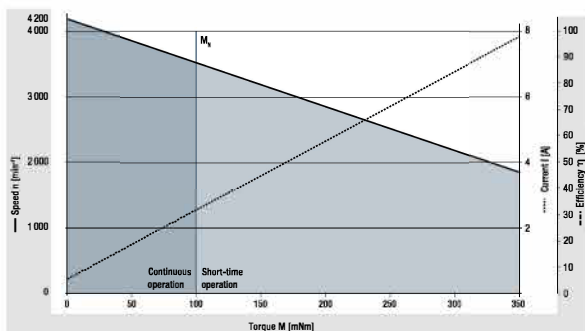


- Direct current motor with permanent magnets made of ceramic bound ferrite
- Mechanical commutation through 12-piece collector
- Closed steel motor housing with die-cast zinc bearing flanges
- Operation in both directions of rotation
- Service life 3 000 h for continuous operation (S1)
- Insulation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

Nominal data			BCI-52.30-A00	BCI-52.30-B00	BCI-52.60-A00	BCI-52.60-B00
Type						
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				

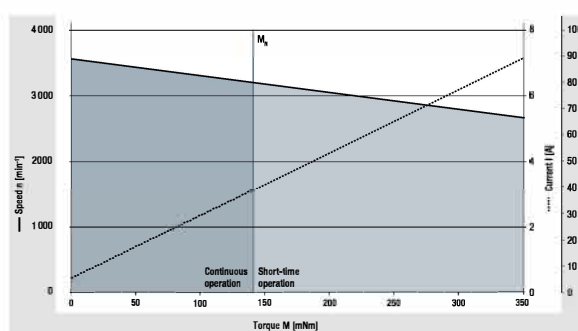
Characteristic curve

BCI-52.30, 24 V (at 25°C)



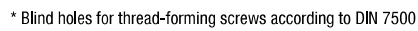
1) Nominal data, see table

BCI-52.60, 24 V (at 25°C)



1) Nominal data, see table

Image standard type / All dimensions in mm



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

2018-01

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[BCI-52.60-B00](#)