

# BCI-Motor

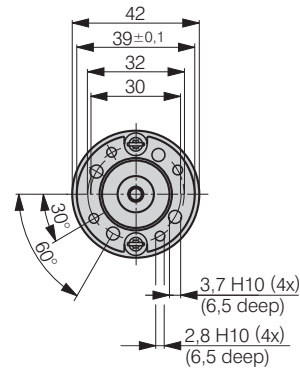
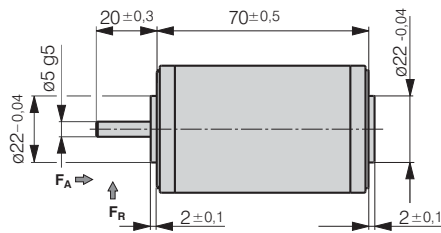
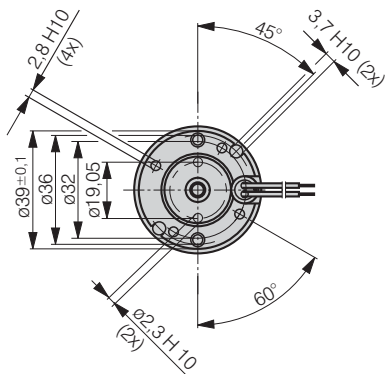
BCI 42.25



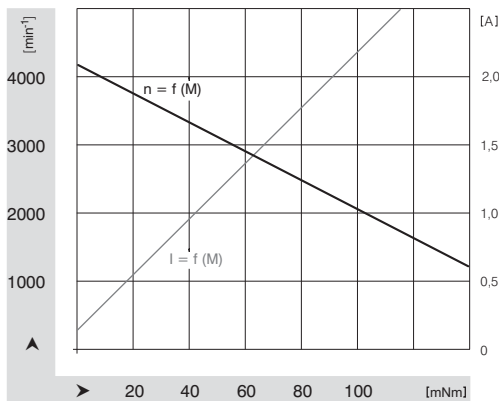
- DC motor with ferrite permanent magnets.
- Mechanical commutation through 8-piece collector.
- Closed steel motor housing with zinc diecast bearing flanges.
- Operation in both directions of rotation.
- Service life 3.000 hrs for continuous operation (S1).
- Insulation class B.
- Protection class IP 40, optionally higher.

## Nominal Data

Type BCI 42.25		12 V DC	24 V DC	40 V DC	60 V DC
Nominal speed	min <sup>-1</sup>	3300	3300	3300	3300
Nominal torque	mNm	38	38	38	38
Nominal output power	W	13	13	13	13
Nominal current	A	1.80	0.83	0.55	0.36
Nominal efficiency approx.	%	66	66	66	66
Free-running speed	min <sup>-1</sup>	4000	3900	4000	4000
Free-running current	A	0.30	0.19	0.11	0.07
Starting torque	mNm	200	190	240	240
Starting current	A	7.6	4.0	2.6	1.7
Rotor moment of inertia	gcm <sup>2</sup>	74	74	74	74
Mass	kg	0.4	0.4	0.4	0.4
Order No.		931 4225 002	931 4225 001	931 4225 003	931 4225 004



## Motor curves for 24 V



### Max. permissible shaft load

$F_A$  – axial load 30 N  
 $F_R$  – radial load 60 N, 20 mm from motor flange

Blind holes for self threading screws according to DIN 7500

### Electrical connection

Direction of rotation, clockwise as viewed onto the drive shaft  
 Cable length  $300 \pm 30$  from motor  
 Cable length  $7 \pm 2$  stripped and tin-coated

