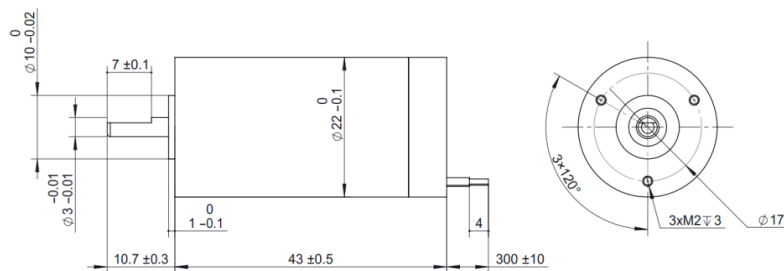


Φ22 mm brushless motor



Motor Data		104004301						
Values at nominal voltage								
1	Nominal voltage	U_N	24					V
2	No load speed	n_0	18000					rpm
3	No load current	I_0	80					mA
4	Stall torque	M_H	74.4					mNm
5	Stall current	M_I	6.0					A
6	Max. efficiency	η_{max}	75					%
7	Nominal power	W_N	18.2					W
8	Nominal speed	n_N	13500					rpm
9	Nominal torque (max.continuous torque)	M_N	13.5					mNm
10	Nominal current (max.continuous current)	I_N	1.1					A
Characteristics								
11	Terminal resistance phase to phase	R	4					Ω
12	Terminal inductance phase to phase	L	240					uH
13	Back-EMF constant	K_E	1.32					mV/rpm
14	Torque constant	K_M	12.56					mNm/A
15	Speed constant	K_n	760					rpm/V
16	Current constant	K_I	0.080					A/mNm
17	Speed / torque gradient	$\Delta n/\Delta M$	242.03					rpm/mNm
18	Mechanical time constant	τ_m	4.2					ms
19	Rotor inertia	J	3.2					gcm ²
Specifications								
20	Operating temperature range:							
	-Motor					-40.....+100		°C
	-winding, max permissible					+125		°C
21	Direction of rotation					electronically reversible		
22	Max. speed	n_{max}				45000		rpm
23	Number of pole pairs					1		
24	Number of phases					3		
25	Magnet material					NdFeB		
26	Hall sensors					digital		
Mechanical data								
27	Bearing type					ball bearings, preloaded		
28	Axial play					0 - 0.3		mm
29	Max. axial load (dynamic)					4		N
30	Max. force for press fits (static)					53		N
	(static, shaft supported)					250		N
31	Max. radial loading, 5 mm from flange					16		N
Product								
32	Weight of motor		73					g

Dimensional drawing



Option, cable and connection information

Connection Motor FF46-1(0.3mm²)

Motor winding A		red
Motor winding B		black
Motor winding C		white

Note:About the torque curves,please contact us for more information.
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