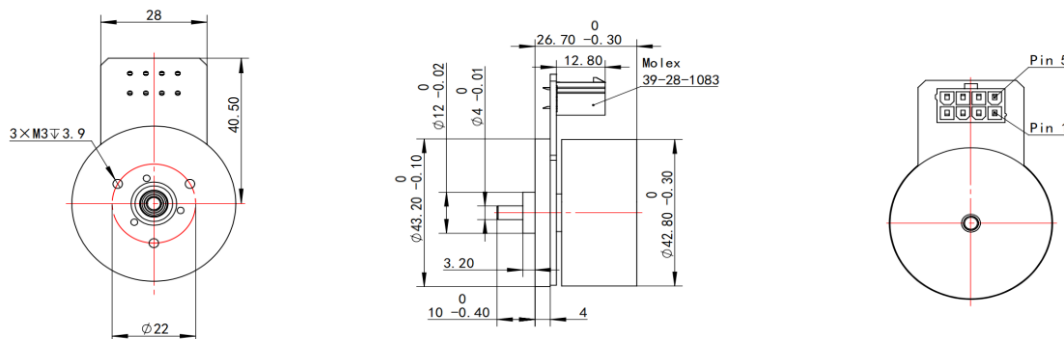


Motor Data	1004002703	1004002704	1004002705	10002706			
<b>Values at nominal voltage</b>							
1 Nominal voltage	$U_N$	24	30	36	48		V
2 No load speed	$n_0$	6110	6230	6330	3440		rpm
3 No load current	$I_0$	400	253	229	112		mA
4 Stall torque	$M_H$	1150.0	1040.0	1000.0	897.0		mNm
5 Stall current	$M_I$	39.5	25.8	20.7	7.0		A
6 Max. efficiency	$\eta_{max}$	85	84	83	84		%
7 Nominal power	$W_N$	62.2	55.9	54.9	34.0		W
8 Nominal speed	$n_N$	4860	4990	5080	2540		rpm
9 Nominal torque (max.continuous torque)	$M_N$	128	112	108	134		mNm
10 Nominal current (max.continuous current)	$I_N$	3.21	2.36	1.93	0.94		A
<b>Characteristics</b>							
11 Terminal resistance phase to phase	$R$	0.55	1.16	1.74	6.89		$\Omega$
12 Terminal inductance phase to phase	$L$	0.22	0.32	0.53	3.12		mH
13 Back-EMF constant	$K_E$	3.89	4.77	5.62	13.73		mV/rpm
14 Torque constant	$K_M$	37.17	45.53	53.71	131.10		mNm/A
15 Speed constant	$K_n$	257	210	178	73		rpm/V
16 Current constant	$K_I$	0.027	0.022	0.019	0.008		A/mNm
17 Speed / torque gradient	$\Delta n/\Delta M$	5.31	5.99	6.33	3.84		rpm/mNm
18 Mechanical time constant	$\tau_m$	8.1	10.3	11.1	7.2		ms
19 Rotor inertia	$J$	181.0	181.0	181.0	181.0		gcm <sup>2</sup>
<b>Specifications</b>							
20 Operating temperature range:							
-Motor					-40.....+100		°C
-winding, max permissible					+125		°C
21 Direction of rotation					electronically reversible		
22 Max. speed	$n_{max}$				10000		rpm
23 Number of pole pairs					8		
24 Number of phases					3		
25 Magnet material					NdFeB		
26 Hall sensors					digital		
<b>Mechanical data</b>							
27 Bearing type					ball bearings, preloaded		
28 Axial play					0 - 0.3		mm
29 Max. axial load (dynamic)					3.8		N
30 Max. force for press fits (static)					50		N
(static, shaft supported)					1000		N
31 Max. radial loading, 5 mm from flange					21		N
<b>Product</b>							
32 Weight of motor		141					g

**Dimensional drawing**



**Option, cable and connection information**

**Connector Molex 39-28-1083**

Hall sensors A		Pin 1	Hall sensors C		Pin 5
Hall sensors B		Pin 2	GND		Pin 6
$V_{hall}$ 4.5V.....24V		Pin 3	Motor winding A		Pin 7
Motor winding C		Pin 4	Motor winding B		Pin 8

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