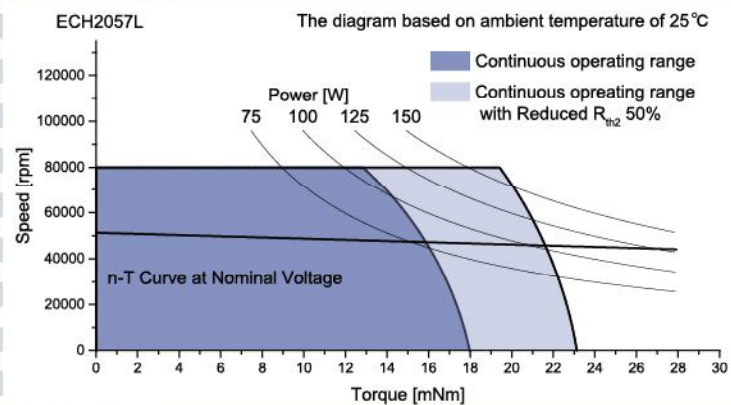


Sensorless EC2057L-...		1850	2450	3650	4850	
Motor data						
Values at nominal voltage						
1	Nominal voltage	V	18	24	36	48
2	No load speed	rpm	50202	50832	51286	50700
3	No load current	mA	210	158	113	94
4	Nominal speed	rpm	46263	46714	47328	46436
5	Nominal torque	mNm	15	15	15	15
6	Nominal current	A	4.61	3.5	2.36	1.76
7	Stall torque	mNm	191	185	194	178
8	Stall current	A	56.3	41.4	29.2	19.9
9	Max. efficiency	%	88.2	88	87.9	86.7
10	Terminal resistance	Ω	0.32	0.58	1.23	2.41
11	Terminal inductance	mH	0.04	0.06	0.14	0.25
12	Torque constant	mNm/A	3.41	4.49	6.68	9
13	Speed constant	rpm/V	2799	2126	1430	1061
14	Speed/torque gradient	rpm/mNm	263	275	264	284
15	Mechanical time constant	ms	2.5	2.6	2.5	2.7
16	Rotor inertia	gcm ²	0.91	0.91	0.91	0.91

17	Thermal resistance housing-ambient	7.6 K/W
18	Thermal resistance winding-housing	1.6 K/W
19	Thermal time constant winding	5 s
20	Thermal time constant motor	410 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	80000 rpm
24	Axial play at axial load <3 N	0 mm
	>3 N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	2.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	11 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	69 g

Operating Range



Connection Configuration

Connection
special connector
please contact sales engineer

Performance: Customized in the continuous operating range
Ball bearing: Preload
Flange: Standard flange front&back/customize the flange
Shaft: Length/Diameter/Cut face/double shaft/hollow shaft