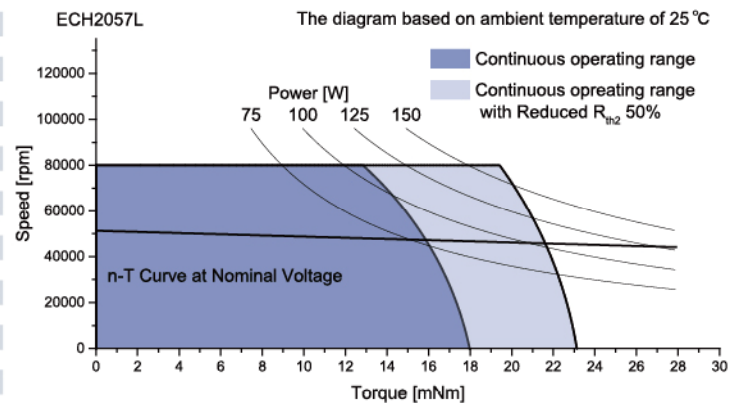


$\oplus$   $\nabla$  M 1.5:1

Sensorless	EC2057L-...	1850	2450	3650	4850			
<b>Motor data</b>								
<b>Values at nominal voltage</b>								
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	$\Omega$	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 <sup>2</sup>	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	-40...+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**

**Connection**  
special connector  
please contact sales engineer

**Configuration**

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