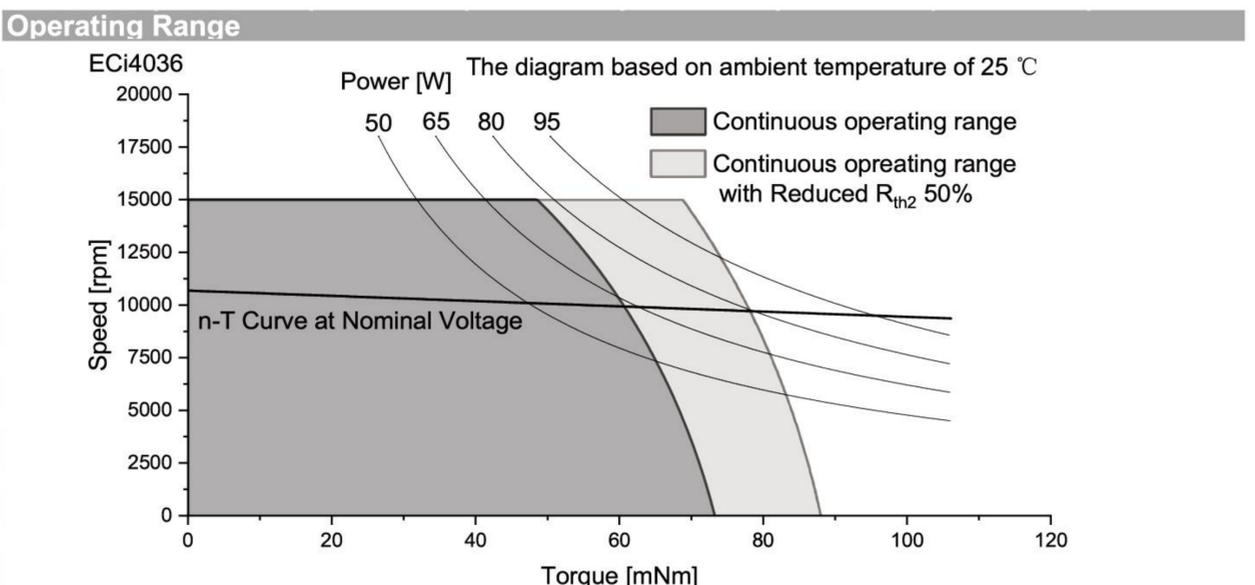


	Sensorless	ECi4036L-...	ECi4036S-...	1210	2410				
Motor data	With hall sensor								
Values at nominal voltage									
1	Nominal voltage	V		12	24				
2	No load speed	rpm		10083	10022				
3	No load current	mA		550	280				
4	Nominal speed	rpm		9465	9483				
5	Nominal torque	mNm		55	55				
6	Nominal current	A		5.42	2.70				
7	Stall torque	mNm		896.73	1022.77				
8	Stall current	A		80.00	45.28				
9	Max. efficiency	%		84.1	84.9				
10	Terminal resistance	Ω		0.15	0.53				
11	Terminal inductance	mH		0.08	0.28				
12	Torque constant	mNm/A		11.29	22.73				
13	Speed constant	rpm/V		846	420				
14	Speed/torque gradient	rpm/mNm		11	10				
15	Mechanical time constant	ms		2.6	2.3				
16	Rotor inertia	gcm ²		22.2	22.2				

17	Thermal resistance housing-ambient	7.3 K/W
18	Thermal resistance winding-housing	4.6 K/W
19	Thermal time constant winding	32 s
20	Thermal time constant motor	796 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	15000 rpm
24	Axial play at axial load	<10N: 0 mm >10N: max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	9 N
27	Max. force for press fits (static)	170 N
	(static, shaft supported)	4500 N
28	Max. radial loading, 5mm from flange	80 N
29	Number of pole pairs	7
30	Number of phases	3
31	Weight of motor	222 g



Connection			Configuration
Connection A (Sensor)			Performance: Customized in the continuous operating range Ball bearing: Preload Flange: Standard frange front&back/customize the frange Shaft: Length/Diameter/Cut face/double shaft/hollow shaft Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length Connector: JST/MOLEX/TE
	PTFE		
Pin 1	Motor winding MB	AWG20 Green	
Pin 2	Vhall 3-18 VDC	AWG26 Red	
Pin 3	Hall sensor HA	AWG26 Yellow	
Pin 4	Hall sensor HC	AWG26 Blue	
Pin 5	Motor winding MA	AWG20 Yellow	
Pin 6	Motor winding MC	AWG20 Blue	
Pin 7	GND	AWG26 Black	
Pin 8	Hall sensor HB	AWG26 Green	
Conector			
Molex5557-8P			
Connection B (Sensorless)			
	PTFE		
Pin 1	Motor winding MA	AWG20 Yellow	
Pin 2	Motor winding MB	AWG20 Green	
Pin 3	Motor winding MC	AWG20 Blue	