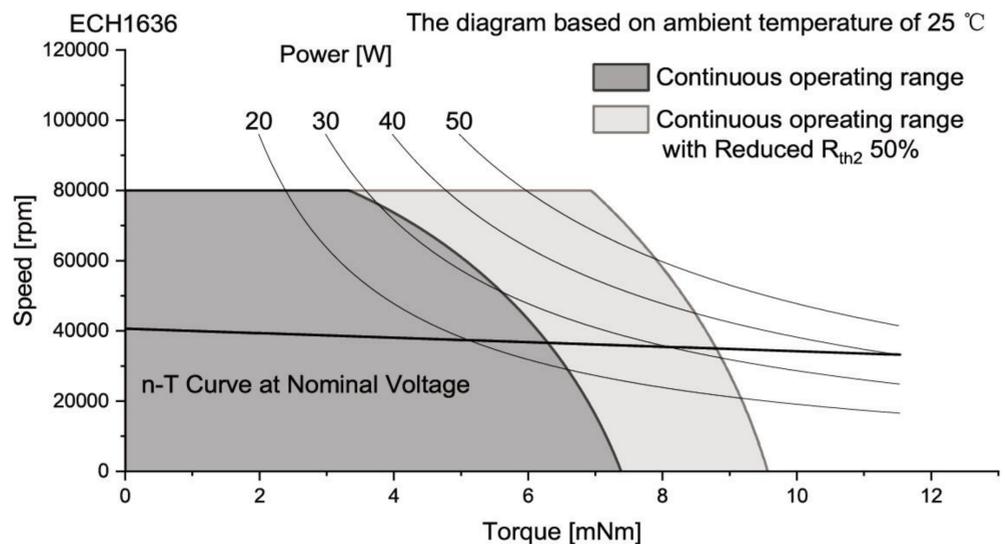


M 1:1

	Sensorless	ECH1636L-...	2440	3040	3640				
	With hall sensor	ECH1636S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	24	30	36				
2	No load speed	rpm	40273	40225	40760				
3	No load current	mA	90	77	72				
4	Nominal speed	rpm	37067	36958	37406				
5	Nominal torque	mNm	5	5	5				
6	Nominal current	A	0.98	0.79	0.67				
7	Stall torque	mNm	62.80	61.56	60.76				
8	Stall current	A	11.21	8.80	7.35				
9	Max. efficiency	%	82.9	82.2	81.2				
10	Terminal resistance	Ω	2.14	3.41	4.9				
11	Terminal inductance	mH	0.11	0.17	0.33				
12	Torque constant	mNm/A	5.65	7.06	8.35				
13	Speed constant	rpm/V	1692	1353	1143				
14	Speed/torque gradient	rpm/mNm	641	653	671				
15	Mechanical time constant	ms	3.7	3.8	3.9				
16	Rotor inertia	gcm ²	0.55	0.55	0.55				

17	Thermal resistance housing-ambient	18.6 K/W
18	Thermal resistance winding-housing	3.44 K/W
19	Thermal time constant winding	6 s
20	Thermal time constant motor	298 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	32 g

Operating Range



Connection

Connection A (Sensor)		PVC	
Pin 1	Vhall 3-18 VDC	AWG26	black
Pin 2	Hall sensor HA	AWG26	black
Pin 3	Hall sensor HB	AWG26	black
Pin 4	Hall sensor HC	AWG26	black
Pin 5	GND	AWG26	black
Pin 6	Motor winding MA	AWG26	black
Pin 7	Motor winding MB	AWG26	black
Pin 8	Motor winding MC	AWG26	black
Connector JST PH2.0-8P			

Connection B (Sensorless)		PVC	
Pin 1	Motor winding MA	AWG26	yellow
Pin 2	Motor winding MB	AWG26	green
Pin 3	Motor winding MC	AWG26	blue

Configuration

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