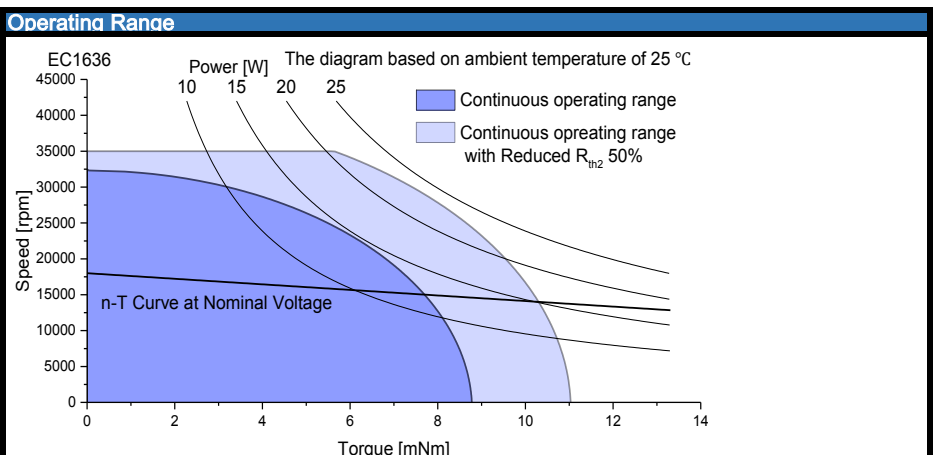


Sensorless	EC1636L-...	0618	0918	1218	2418			
With hall sensor	EC1636S-...							

Motor Data								
1	Nominal voltage	V	6	9	12	24		
2	No load speed	rpm	17920	18180	18900	18200		
3	No load current	mA	182	130	110	70		
4	Nominal speed	rpm	14684	14884	15816	15150		
5	Nominal torque	mNm	6	6	6	6		
6	Nominal current	A	2,09	1,42	1,12	0,56		
7	Stall torque	mNm	33,2	33,1	36,8	35,8		
8	Stall current	A	10,8	7,26	6,28	2,98		
9	Max. efficiency	%	75,7	75	75,3	71,7		

10	Terminal resistance	Ω	0,56	1,24	1,91	8,05		
11	Terminal inductance	mH	0,02	0,05	0,08	0,33		
12	Torque constant	mNm/A	3,14	4,64	5,96	12,3		
13	Speed constant	rpm/V	3038	2057	1603	777		
14	Speed/torque gradient	rpm/mNm	539	549	514	508		
15	Mechanical time constant	ms	3,5	3,6	3,3	3,3		
16	Rotor inertia	gcm ²	0,6	0,6	0,6	0,62		

17	Thermal resistance housing-ambient	20.0 K/W
18	Thermal resistance winding-housing	8.8 K/W
19	Thermal time constant winding	8 s
20	Thermal time constant motor	236 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	35000 rpm
24	Axial play at axial load	<1.8 N 0 mm >1.8 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	1.3 N
27	Max. force for press fits (static)	15 N
	(static, shaft supported)	350 N
28	Max. radial loading, 5mm from flange	5 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	32 g



Connection		
Connection A (Sensor)		
Pin 1	Vhall 3-18 VDC	PTFE
Pin 2	Hall sensor HA	AWG28 black
Pin 3	Hall sensor HB	AWG28 black
Pin 4	Hall sensor HC	AWG28 black
Pin 5	GND	AWG28 black
Pin 6	Motor winding MA	AWG28 black
Pin 7	Motor winding MB	AWG28 black
Pin 8	Motor winding MC	AWG28 black
Conector JST PH2.0-8P		
Connection B (Sensorless)		
Pin 1	Motor winding MA	PTFE yellow
Pin 2	Motor winding MB	AWG28 green
Pin 3	Motor winding MC	AWG28 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