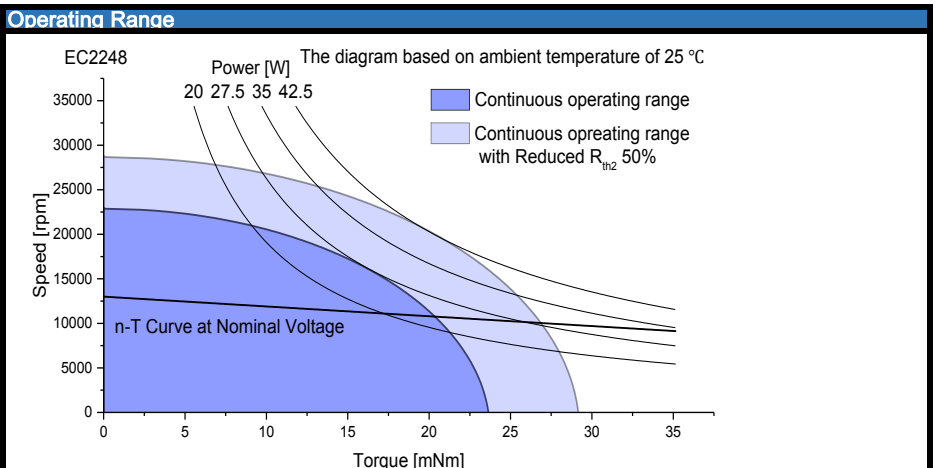


	Sensorless With hall sensor	EC2248L-... EC2248S-...	1213	2413	3613	4813			
Motor Data									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	13004	12930	13390	13641			
3	No load current	mA	179	102	82	69			
4	Nominal speed	rpm	11426	11413	11749	12159			
5	Nominal torque	mNm	18	18	18	18			
6	Nominal current	A	2,24	1,13	0,79	0,61			
7	Stall torque	mNm	148	153	147	166			
8	Stall current	A	17,2	8,86	5,88	5,07			
9	Max. efficiency	%	80,6	79,7	77,8	78			

10	Terminal resistance	Ω	0,7	2,71	6,12	9,47			
11	Terminal inductance	mH	0,07	0,28	0,58	0,97			
12	Torque constant	mNm/A	8,72	17,5	25,3	33,1			
13	Speed constant	rpm/V	1095	545	377	288			
14	Speed/torque gradient	rpm/mNm	87,7	84,3	91,2	82,3			
15	Mechanical time constant	ms	2,9	2,8	3,0	2,71			
16	Rotor inertia	gcm ²	3,1	3,1	3,1	3,14			

17	Thermal resistance housing-ambient	11.8 K/W
18	Thermal resistance winding-housing	4.7 K/W
19	Thermal time constant winding	21 s
20	Thermal time constant motor	504 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	30000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	85 g



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)		
	PTFE	
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