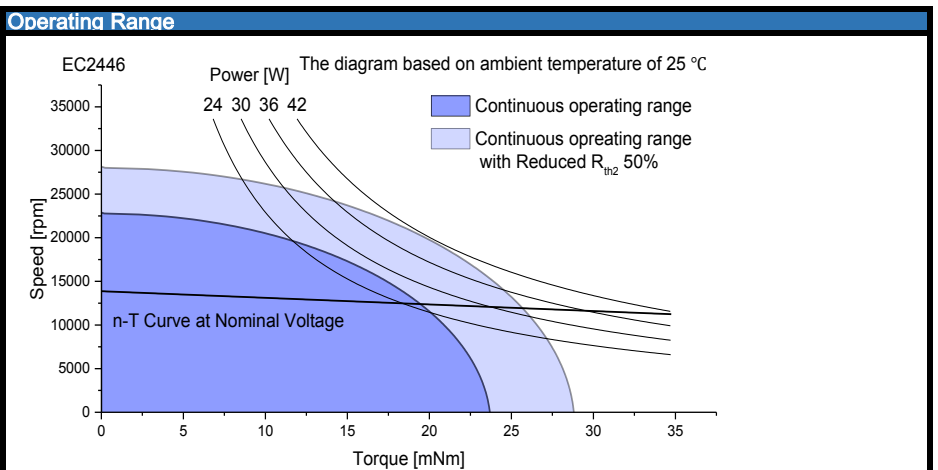


	Sensorless With hall sensor	EC2446L-... EC2446S-...	1214	2414	3614	4814			
Motor Data									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	14150	13872	13920	13870			
3	No load current	mA	249	124	106	79			
4	Nominal speed	rpm	12678	12487	12662	12446			
5	Nominal torque	mNm	18	18	18	18			
6	Nominal current	A	2,5	1,23	0,84	0,63			
7	Stall torque	mNm	173	180	199	175			
8	Stall current	A	21,9	11,2	8,28	5,46			
9	Max. efficiency	%	79,8	80	78,6	77,4			

10	Terminal resistance	Ω	0,55	2,15	4,35	8,79			
11	Terminal inductance	mH	0,07	0,29	0,62	1,14			
12	Torque constant	mNm/A	8,01	16,3	24,4	32,6			
13	Speed constant	rpm/V	1193	584	392	293			
14	Speed/torque gradient	rpm/mNm	81,8	76,9	69,9	79,1			
15	Mechanical time constant	ms	3,6	3,4	3,1	3,48			
16	Rotor inertia	gcm ²	4,2	4,2	4,2	4,2			

17	Thermal resistance housing-ambient	11.6 K/W
18	Thermal resistance winding-housing	5.6 K/W
19	Thermal time constant winding	30 s
20	Thermal time constant motor	557 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	92 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