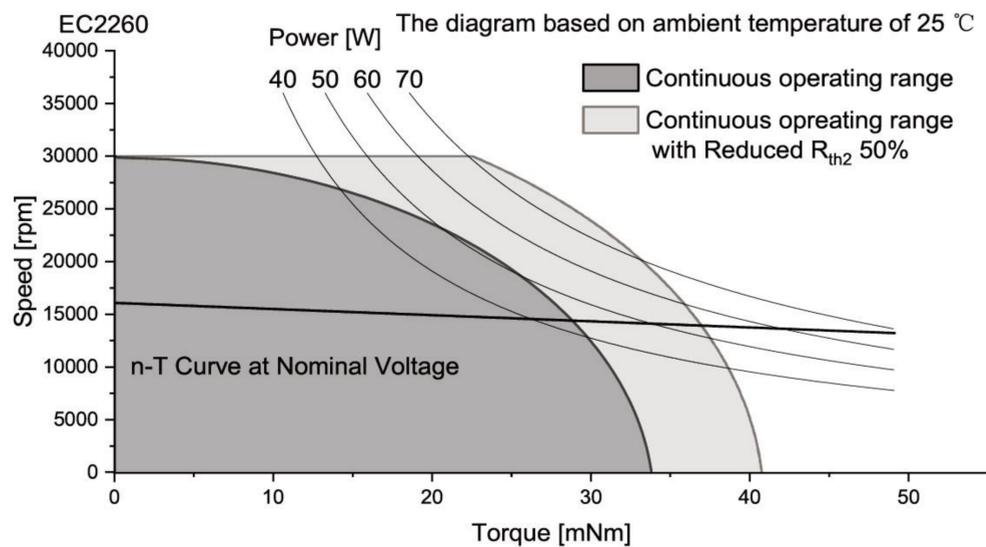


		EC2260L-...	EC2260S-...	1213	2413	3613	4813
Motor data		With hall sensor	Sensorless				
Values at nominal voltage							
1	Nominal voltage	V		12	24	36	48
2	No load speed	rpm		16360	16086	16030	16200
3	No load current	mA		440	230	170	110
4	Nominal speed	rpm		14517	14441	14364	14530
5	Nominal torque	mNm		28	28	28	28
6	Nominal current	A		4.49	2.22	1.49	1.11
7	Stall torque	mNm		248.58	273.76	269.48	271.54
8	Stall current	A		36.36	19.67	12.90	9.82
9	Max. efficiency	%		79.2	79.5	78.4	79.9
10	Terminal resistance	Ω		0.33	1.22	2.79	4.89
11	Terminal inductance	mH		0.03	0.13	0.3	0.52
12	Torque constant	mNm/A		6.92	14.08	21.16	27.98
13	Speed constant	rpm/V		1380	678	451	341
14	Speed/torque gradient	rpm/mNm		66	59	59	60
15	Mechanical time constant	ms		2.1	1.9	1.9	1.9
16	Rotor inertia	gcm ²		3.1	3.1	3.1	3.1

17	Thermal resistance housing-ambient	7.6 K/W
18	Thermal resistance winding-housing	4.6 K/W
19	Thermal time constant winding	29 s
20	Thermal time constant motor	533 s
21	Ambient temperature	-30...+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	122 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
Conector		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