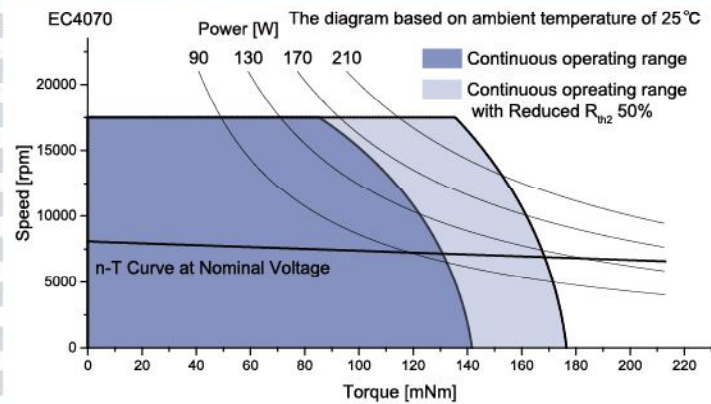


		EC4070L-...	EC4070S-...	1206	2408	3608	4808
Motor data		Sensorless	EC4070L-...				
		With hall sensor	EC4070S-...				
Values at nominal voltage							
1	Nominal voltage	V		12	24	36	48
2	No load speed	rpm		6154	8102	8113	8061
3	No load current	mA		264	200	190	130
4	Nominal speed	rpm		5084	7304	7266	7238
5	Nominal torque	mNm		130	130	130	130
6	Nominal current	A		7.29	4.82	3.28	2.43
7	Stall torque	mNm		748	1320	1245	1273
8	Stall current	A		40.7	47.1	29.8	22.6
9	Max. efficiency	%		84.5	87.4	84.7	85.4
10	Terminal resistance	Ω		0.3	0.51	1.21	2.12
11	Terminal inductance	mH		0.11	0.30	0.66	1.2
12	Torque constant	mNm/A		18.5	28.2	42.1	56.5
13	Speed constant	rpm/V		516	339	227	169
14	Speed/torque gradient	rpm/mNm		8.23	6.14	6.52	6.33
15	Mechanical time constant	ms		3.4	2.5	2.7	2.6
16	Rotor inertia	gcm ²		39.4	39.4	39.4	39.4

17	Thermal resistance housing-ambient	3.8 K/W
18	Thermal resistance winding-housing	1.5 K/W
19	Thermal time constant winding	33 s
20	Thermal time constant motor	775 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	17500 rpm
24	Axial play at axial load <10N	0 mm
	>10N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	9 N
27	Max. force for press fits (static)	170 N
	(static, shaft supported)	4500 N
28	Max. radial loading, 5mm from flange	80 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	415 g

Operating Range



Connection

Connection A (Sensor)	PTFE	
Pin 1 Motor winding MB	AWG20	Green
Pin 2 Vhall 3-18 VDC	AWG26	Red
Pin 3 Hall sensor HA	AWG26	Yellow
Pin 4 Hall sensor HC	AWG26	Blue
Pin 5 Motor winding MA	AWG20	Yellow
Pin 6 Motor winding MC	AWG20	Blue
Pin 7 GND	AWG26	Black
Pin 8 Hall sensor HB	AWG26	Green
Connector		
Molex5557-8P		

Connection B (Sensorless)	PTFE	
Pin 1 Motor winding MA	AWG20	Yellow
Pin 2 Motor winding MB	AWG20	Green
Pin 3 Motor winding MC	AWG20	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