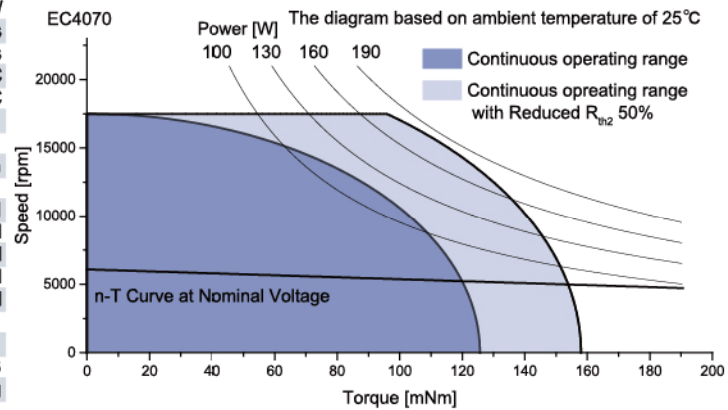


	Sensorless	EC4070L-...	1206	2406	3606	4806			
	With hall sensor	EC4070S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	6154	6088	6133	6134			
3	No load current	mA	264	140	98	68			
4	Nominal speed	rpm	5084	5130	5205	5214			
5	Nominal torque	mNm	130	130	130	130			
6	Nominal current	A	7.29	3.62	2.43	1.82			
7	Stall torque	mNm	748	826	859	867			
8	Stall current	A	40.7	22.2	15.5	11.7			
9	Max. efficiency	%	84.5	84.8	84.7	85.4			
10	Terminal resistance	Ω	0.3	1.08	2.32	4.09			
11	Terminal inductance	mH	0.11	0.43	0.98	1.73			
12	Torque constant	mNm/A	18.5	37.4	55.7	74.3			
13	Speed constant	rpm/V	516	255	171	129			
14	Speed/torque gradient	rpm/mNm	8.23	7.37	7.14	7.08			
15	Mechanical time constant	ms	3.4	3.0	2.9	2.9			
16	Rotor inertia	gcm ²	39.4	39.4	39.4	39.4			

17	Thermal resistance housing-ambient	4.3 K/W
18	Thermal resistance winding-housing	1.6 K/W
19	Thermal time constant winding	36 s
20	Thermal time constant motor	889 s
21	Ambient temperature	-40...+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

Conection A (Sensor)	PTFE	
Pin 1 Motor winding MB	AWG20	Green
Pin 2 Vcc	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	AWG26	Blue
Pin 7 GND	AWG26	Black
Pin 8 Hall sensor HB	AWG26	Green
Conector		
Molex5557-8P		

Conection 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 within 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/Siliccn/Teflon/UL No/Dimension/length
Connector: JST/MOLEX/TE