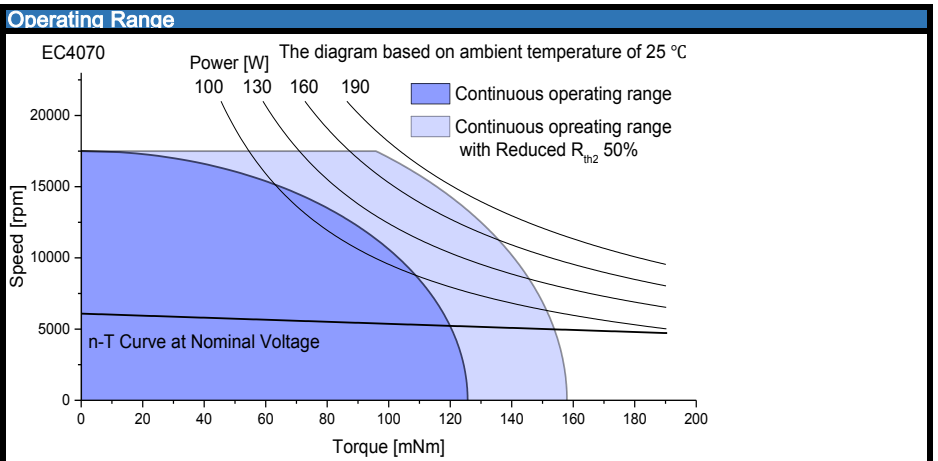


	Sensorless	EC4070L-...	1206	2406	3606	4806			
	With hall sensor	EC4070S-...							

Motor Data									
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	2,92			
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



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 HC	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