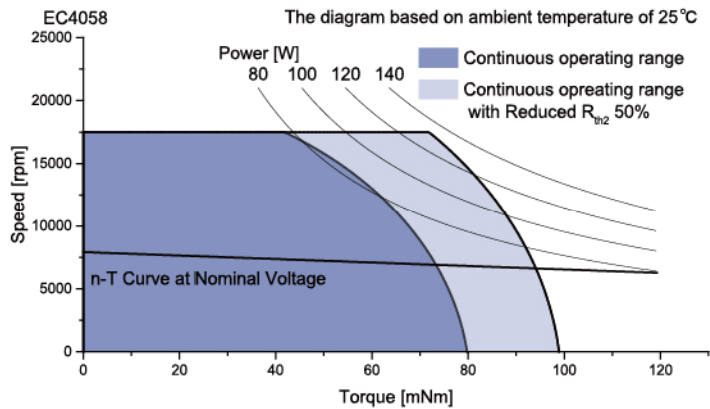


	Sensorless With hall sensor	EC4058L-... EC4058S-...	1208	2408	3608	4808			
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	8020	7923	7977	8012			
3	No load current	mA	325	163	109	87			
4	Nominal speed	rpm	6725	6716	6746	6793			
5	Nominal torque	mNm	85	85	85	85			
6	Nominal current	A	6.33	3.13	2.1	1.59			
7	Stall torque	mNm	527	558	551	559			
8	Stall current	A	37.5	19.6	13	9.94			
9	Max. efficiency	%	82.2	82.6	82.5	82.2			
10	Terminal resistance	Ω	0.32	1.22	2.77	4.83			
11	Terminal inductance	mH	0.09	0.36	0.82	1.46			
12	Torque constant	mNm/A	14.2	28.7	42.7	56.7			
13	Speed constant	rpm/V	674	333	223	168			
14	Speed/torque gradient	rpm/mNm	15.2	14.2	14.5	14.3			
15	Mechanical time constant	ms	4.7	4.4	4.5	4.4			
16	Rotor inertia	gcm ²	29.6	29.6	29.6	29.6			

17	Thermal resistance housing-ambient	5.7 K/W
18	Thermal resistance winding-housing	2.5 K/W
19	Thermal time constant winding	40 s
20	Thermal time constant motor	943 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	320 g

Operating Range



Connection

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