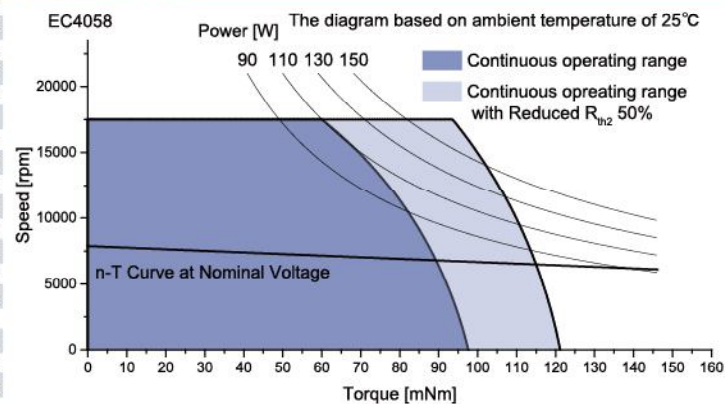


	Sensorless With hall sensor	EC4058L-...	1208	2408	3608	4808			
<b>Motor data</b>									
<b>Values at nominal voltage</b>									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	7958	7890	7962	8001			
3	No load current	mA	480	200	170	110			
4	Nominal speed	rpm	7000	6912	6943	6986			
5	Nominal torque	mNm	85	85	85	85			
6	Nominal current	A	6.44	3.15	2.16	1.61			
7	Stall torque	mNm	706	686	664	670			
8	Stall current	A	50	24	15.7	11.9			
9	Max. efficiency	%	81.4	82.6	80.3	81.7			
10	Terminal resistance	$\Omega$	0.24	1	2.29	4.03			
11	Terminal inductance	mH	0.11	0.46	0.97	1.67			
12	Torque constant	mNm/A	14.3	28.8	42.7	56.8			
13	Speed constant	rpm/V	670	332	224	168			
14	Speed/torque gradient	rpm/mNm	11.3	11.5	12	11.9			
15	Mechanical time constant	ms	3.5	3.6	3.7	3.7			
16	Rotor inertia	gcm <sup>2</sup>	29.6	29.6	29.6	29.6			

17	Thermal resistance housing-ambient	4.7 K/W
18	Thermal resistance winding-housing	2.2 K/W
19	Thermal time constant winding	35 s
20	Thermal time constant motor	777 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	338 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