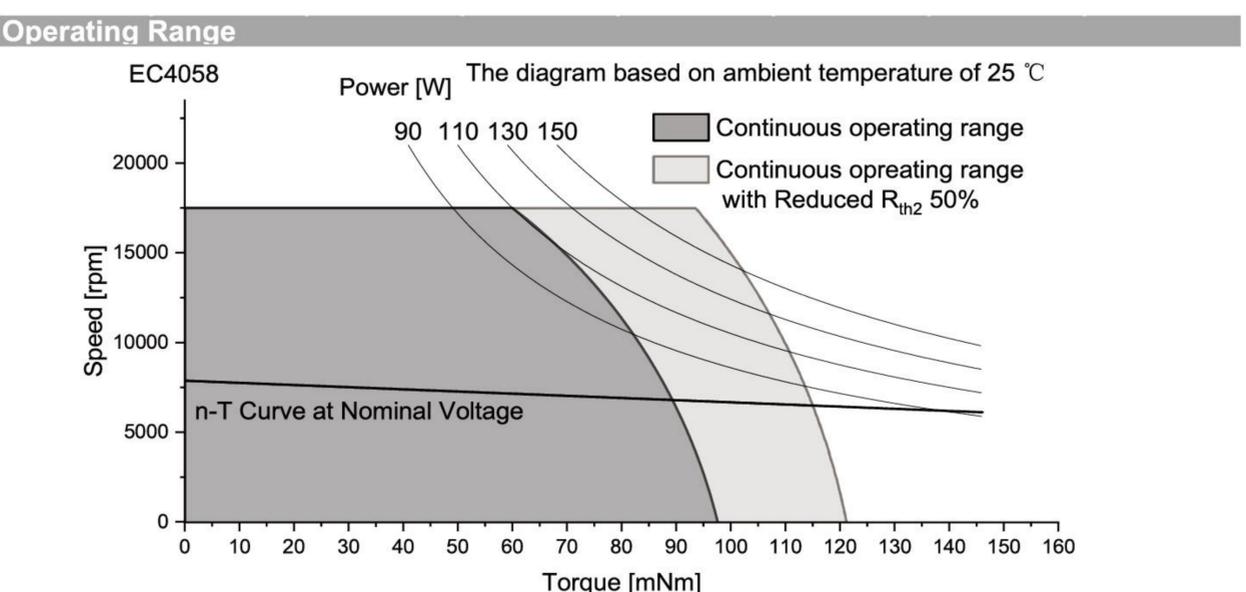


	Sensorless	EC4058L-...	1208	2408	3608	4808
	With hall sensor	EC4058S-...				
<b>Motor data</b>						
<b>Values at nominal voltage</b>						
1	Nominal voltage	V	12	24	36	48
2	No load speed	rpm	7958	7890	7962	8001
3	No load current	mA	480	200	170	110
4	Nominal speed	rpm	7000	6912	6943	6986
5	Nominal torque	mNm	85	85	85	85
6	Nominal current	A	6.44	3.15	2.16	1.61
7	Stall torque	mNm	706.22	685.56	664.16	669.80
8	Stall current	A	50.00	24.00	15.72	11.91
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	14.26	28.81	42.71	56.76
13	Speed constant	rpm/V	670	332	224	168
14	Speed/torque gradient	rpm/mNm	11	12	12	12
15	Mechanical time constant	ms	4.7	3.6	3.7	3.7
16	Rotor inertia	gcm <sup>2</sup>	39.6	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



Connection			Configuration
<b>Connection A (Sensor)</b>			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
	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			
<b>Connection B (Sensorless)</b>			
	PTFE		
Pin 1	Motor winding MA	AWG20 Yellow	
Pin 2	Motor winding MB	AWG20 Green	
Pin 3	Motor winding MC	AWG20 Blue	