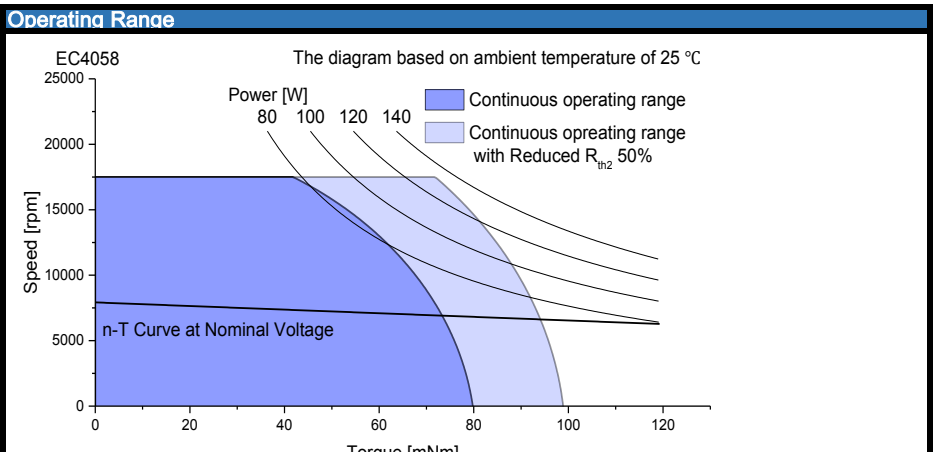


	Sensorless With hall sensor	EC4058L-... EC4058S-...	1208	2408	3608	4808			
<b>Motor Data</b>									
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	8020	7923	7977	8012			
3	No load current	mA	325	163	109	87			
4	Nominal speed	rpm	6725	6716	6746	6793			
5	Nominal torque	mNm	85	85	85	85			
6	Nominal 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	4,45			
16	Rotor inertia	gcm <sup>2</sup>	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



Connection		
<b>Connection A (Sensor)</b> 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		
<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

**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