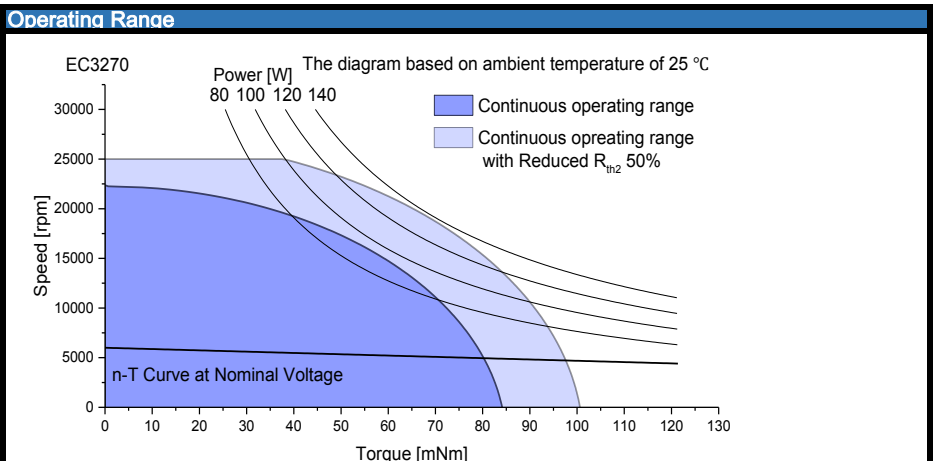


	Sensorless	EC3270L-...	1206	2406	3606	4806			
	With hall sensor	EC3270S-...							

Motor Data			1206	2406	3606	4806			
1	Nominal voltage	V	12	24	36	48			
2	No load speed	rpm	6053	6031	5981	6095			
3	No load current	mA	230	130	93	74			
4	Nominal speed	rpm	4875	4884	4875	4932			
5	Nominal torque	mNm	85	85	85	85			
6	Nominal current	A	4,76	2,39	1,59	1,22			
7	Stall torque	mNm	437	447	460	445			
8	Stall current	A	23,5	12	8,18	6,07			
9	Max. efficiency	%	81,2	80,3	79,8	79,1			

10	Terminal resistance	Ω	0,51	2	4,4	7,91			
11	Terminal inductance	mH	0,15	0,6	1,39	2,36			
12	Torque constant	mNm/A	18,7	37,6	56,8	74,3			
13	Speed constant	rpm/V	509	254	168	129			
14	Speed/torque gradient	rpm/mNm	13,9	13,5	13	13,7			
15	Mechanical time constant	ms	2,7	2,6	2,5	2,65			
16	Rotor inertia	gcm ²	18,5	18,5	18,5	18,5			

17	Thermal resistance housing-ambient	4.9 K/W
18	Thermal resistance winding-housing	2.9 K/W
19	Thermal time constant winding	48 s
20	Thermal time constant motor	628 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 rpm
24	Axial play at axial load	<8 N 0 mm >8 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7.5 N
27	Max. force for press fits (static)	100 N
	(static, shaft supported)	2700 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	256 g



Connection		Confiuration	
Connection A (Sensor)		Performance: Customized in the continuous operating range	
Pin 1	Motor winding MB PTFE AWG20 Green	Ball bearing: Preload	
Pin 2	Vhall 3-18 VDC AWG26 Red	Flange: Standard frange front&back/customize the frange	
Pin 3	Hall sensor HA AWG26 Yellow	Shaft: Length/Diameter/Cut face/double shaft/hollow shaft	
Pin 4	Hall sensor HC AWG26 Blue	Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length	
Pin 5	Motor winding MA AWG20 Yellow	Connector: JST/MOLEX/TE	
Pin 6	Motor winding MC AWG20 Blue		
Pin 7	GND AWG26 Black		
Pin 8	Hall sensor HC AWG26 Green		
Conector Molex5557-8P			
Connection B (Sensorless)			
Pin 1	Motor winding MA AWG20 Yellow		
Pin 2	Motor winding MB AWG20 Green		
Pin 3	Motor winding MC AWG20 Blue		

Connection		Confiuration	
Connection A (Sensor)		Performance: Customized in the continuous operating range	
Pin 1	Motor winding MB PTFE AWG20 Green	Ball bearing: Preload	
Pin 2	Vhall 3-18 VDC AWG26 Red	Flange: Standard frange front&back/customize the frange	
Pin 3	Hall sensor HA AWG26 Yellow	Shaft: Length/Diameter/Cut face/double shaft/hollow shaft	
Pin 4	Hall sensor HC AWG26 Blue	Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length	
Pin 5	Motor winding MA AWG20 Yellow	Connector: JST/MOLEX/TE	
Pin 6	Motor winding MC AWG20 Blue		
Pin 7	GND AWG26 Black		
Pin 8	Hall sensor HC AWG26 Green		
Conector Molex5557-8P			
Connection B (Sensorless)			
Pin 1	Motor winding MA AWG20 Yellow		
Pin 2	Motor winding MB AWG20 Green		
Pin 3	Motor winding MC AWG20 Blue		