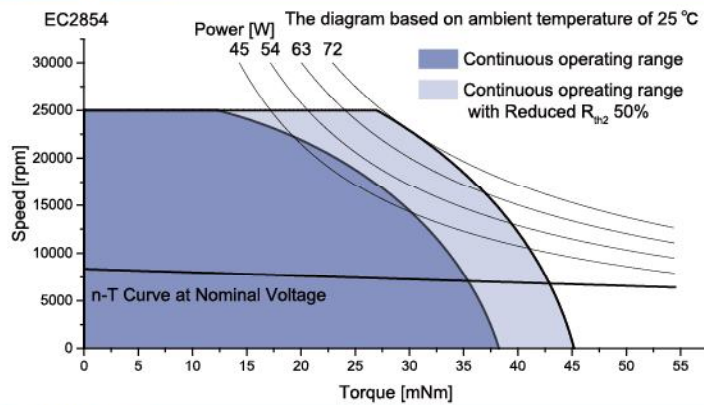


M 1:1.5

		Sensorless	EC2854L-...	1208	2408	3608	4808			
		With hall sensor	EC2854S-...							
Motor data										
Values at nominal voltage										
1	Nominal voltage	V		12	24	36	48			
2	No load speed	rpm		8031	8336	8175	8325			
3	No load current	mA		142	94	65	51			
4	Nominal speed	rpm		6646	7084	6891	6805			
5	Nominal torque	mNm		35	35	35	35			
6	Nominal current	A		2.62	1.38	0.91	0.7			
7	Stall torque	mNm		203	233	223	192			
8	Stall current	A		14.5	8.66	5.43	3.58			
9	Max. efficiency	%		81.2	80.3	79.3	77.6			
10	Terminal resistance	Ω		0.83	2.77	6.63	13.4			
11	Terminal inductance	mH		0.16	0.61	1.41	2.56			
12	Torque constant	mNm/A		14.1	27.2	41.5	54.3			
13	Speed constant	rpm/V		676	351	230	176			
14	Speed/torque gradient	rpm/mNm		39.6	35.8	36.7	43.4			
15	Mechanical time constant	ms		3.5	3.2	3.3	3.9			
16	Rotor inertia	gcm ²		8.5	8.5	8.5	8.5			

17	Thermal resistance housing-ambient	7.1 K/W
18	Thermal resistance winding-housing	5 K/W
19	Thermal time constant winding	51 s
20	Thermal time constant motor	552 s
21	Ambient temperature	-30...+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)	2000 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	156 g

Operating Range



Connection

Connection A (Sensor)		
Pin 1 Vhall 3-18 VDC	PVC	
Pin 2 Hall sensor HA	AWG26	black
Pin 3 Hall sensor HB	AWG26	black
Pin 4 Hall sensor HC	AWG26	black
Pin 5 GND	AWG26	black
Pin 6 Motor winding MA	AWG26	black
Pin 7 Motor winding MB	AWG26	black
Pin 8 Motor winding MC	AWG26	black
Connector		
JST PH2.0-8P		

Connection B (Sensorless)		
Pin 1 Motor winding MA	PVC	yellow
Pin 2 Motor winding MB	AWG26	green
Pin 3 Motor winding MC	AWG26	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