

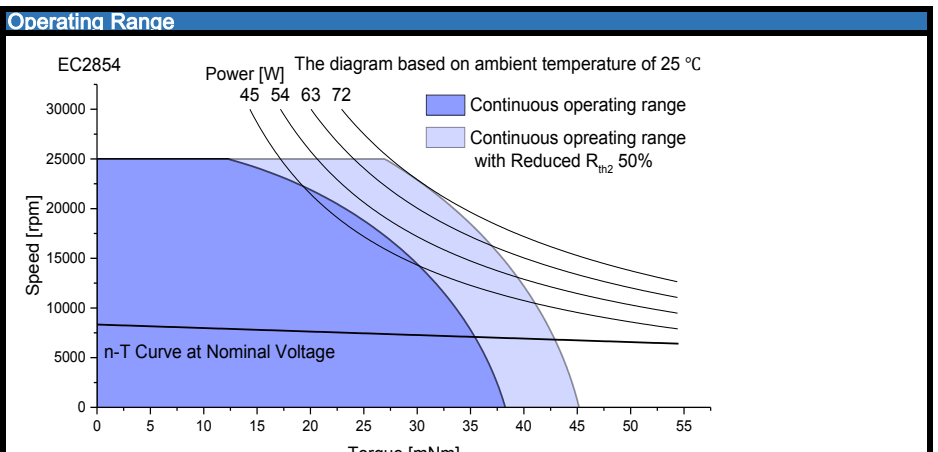
M 1:1

Sensorless With hall sensor	EC2854L-... EC2854S-...	1208	2408	3608	4808			
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Motor Data								
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	3,87		
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	-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)	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



Connection	
Connection A (Sensor)	
Pin 1 Vhall 3-18 VDC	PVC AWG26 black
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	PTFE AWG26 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