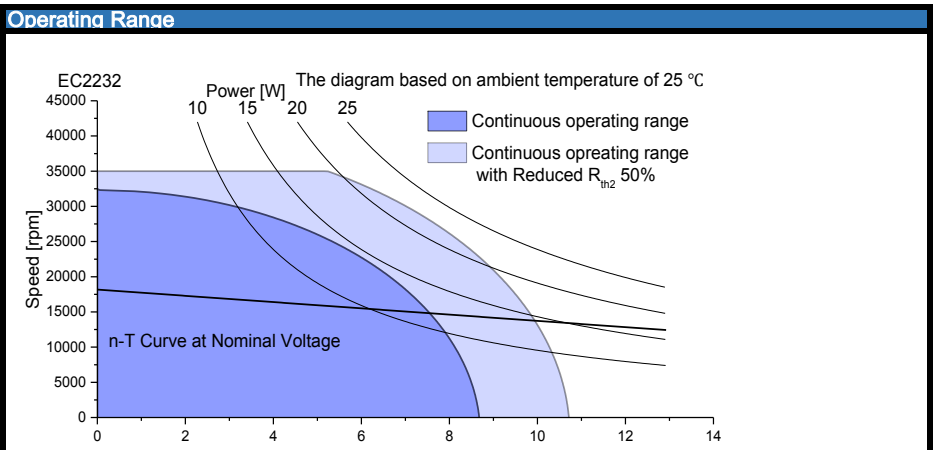


M 1:1

	Sensorless	EC2232L-...	1218	1818	2418	3018			
	With hall sensor	EC2232S-...							
Motor Data									
1	Nominal voltage	V	12	18	24	30			
2	No load speed	rpm	18247	18053	18180	17595			
3	No load current	mA	155	103	86	72			
4	Nominal speed	rpm	15804	15660	15497	14804			
5	Nominal torque	mNm	6	6	6	6			
6	Nominal current	A	1,13	0,75	0,57	0,45			
7	Stall torque	mNm	44,8	45,3	40,7	37,8			
8	Stall current	A	7,44	4,96	3,39	2,47			
9	Max. efficiency	%	73,2	73,3	70,7	68,7			

10	Terminal resistance	Ω	1,61	3,63	7,07	12,2			
11	Terminal inductance	mH	0,1	0,22	0,41	0,66			
12	Torque constant	mNm/A	6,15	9,32	12,3	15,8			
13	Speed constant	rpm/V	1553	1024	777	604			
14	Speed/torque gradient	rpm/mNm	407	399	447	465			
15	Mechanical time constant	ms	6,4	6,2	7,0	7,26			
16	Rotor inertia	gcm ²	1,5	1,5	1,5	1,49			

17	Thermal resistance housing-ambient	15.2 K/W
18	Thermal resistance winding-housing	6.0 K/W
19	Thermal time constant winding	11 s
20	Thermal time constant motor	383 s
21	Ambient temperature	-40...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	35000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	48 g



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

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