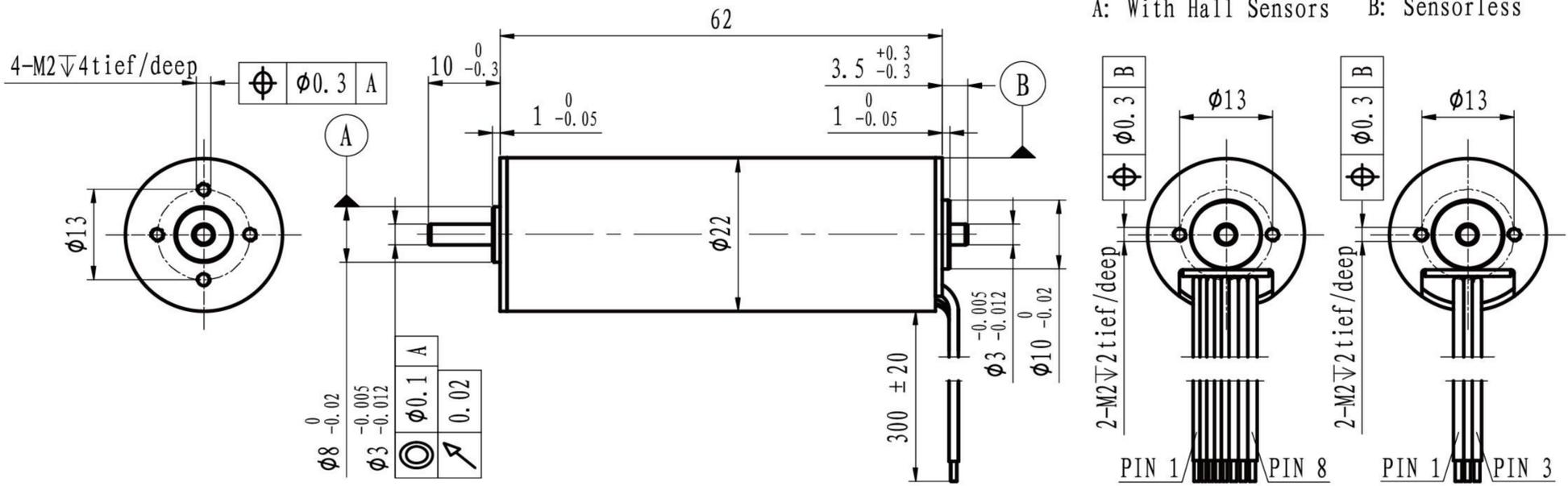


A: With Hall Sensors B: Sensorless



M 1:1.5

	Sensorless	EC4P2262L-...	2412	3612	4812				
	With hall sensor	EC4P2262S-...							
Motor data									
Values at nominal voltage									
1	Nominal voltage	V	24	36	48				
2	No load speed	rpm	11705	12100	11795				
3	No load current	mA	180	135	80				
4	Nominal speed	rpm	10834	11299	10971				
5	Nominal torque	mNm	55	55	55				
6	Nominal current	A	3.00	2.08	1.50				
7	Stall torque	mNm	738.9	830.7	787.6				
8	Stall current	A	38.10	29.51	20.43				
9	Max. efficiency	%	86.7	86.9	87.9				
10	Terminal resistance	Ω	0.63	1.22	2.35				
11	Terminal inductance	mH	0.06	0.12	0.24				
12	Torque constant	mNm/A	19.49	28.28	38.71				
13	Speed constant	rpm/V	490	338	247				
14	Speed/torque gradient	rpm/mNm	16	15	15				
15	Mechanical time constant	ms	1.4	1.3	1.3				
16	Rotor inertia	gcm ²	8.43	8.43	8.43				
17	Thermal resistance housing-ambient	7.8 K/W	Operating Range						
18	Thermal resistance winding-housing	2.8 K/W	EC4P2262						
19	Thermal time constant winding	17 s	The diagram based on ambient temperature of 25 °C						
20	Thermal time constant motor	612 s							
21	Ambient temperature	-30...+100°C	Legend: ■ Continuous operating range □ Continuous operating range with Reduced R_{th2} 50%						
22	Max. permissible winding temperature	+150°C							
23	Max. permissible speed	25000 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	2							
30	Number of phases	3							
31	Weight of motor	151 g							

Connection

Conection A (Sensor)		PTFE
Pin 1	Vhall 3-18 VDC	AWG26 Red
Pin 2	Hall sensor HA	AWG26 Yellow
Pin 3	Hall sensor HB	AWG26 Blue
Pin 4	Hall sensor HC	AWG26 Green
Pin 5	GND	AWG26 black
Pin 6	Motor winding MA	AWG20 Yellow
Pin 7	Motor winding MB	AWG20 Blue
Pin 8	Motor winding MC	AWG20 Green

Conection B (Sensorless)		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