



**M 1:1**

**ECG22..L**  
**ECG22..S P22**

**Motor type**

1 Length of motor L1	ECG2232S/L	mm	32	Motor performance at P12
	ECG2240S/L	mm	40	Motor performance at P13
	ECG2248S/L	mm	48	Motor performance at P14
	ECDG2238S	mm	38.5	Motor performance at P30
	ECDG2246S	mm	46.5	Motor performance at P31

**Gearhead Data**

2 Housing material		Steel
3 Geartrain material		Steel
4 Bearing type on output shaft		Ball bearing
5 Max. radial load (10mm from flange)	N	15.6
6 Max. axial load	N	4.9
7 Radial play of shaft	mm	0.04
8 Thrust play of shaft	mm	0.4
9 Backlash at no load	°	2
10 Max. continuous speed	rpm	42000
11 Operating temperature range	°C	-30..+100
12 Number of stages		1 2 3 4 5
13 Max continuous torque	Nm	0.72 0.96 1.2 1.45 1.45
14 Max. intermittent torque	Nm	1.44 1.92 2.4 2.9 2.9
15 Max. efficiency	%	90 83 77 72 72
16 Gearhead length L2	mm	22.6 27.6 32.7 37.7 42.8
17 Ratio	X:1	3.7,4.4, 5.4, 6.5 14.5,16.4, 19.2,23.7, 28.5,35.1 42.3, 48.2,54.5, 61.7, 67.1, 75.9, 80.8, 88.8, 94.5, 103.8, 109.3 125, 131 154, 185.3 204,228, 251.8, 274.6, 294.4, 313.3 333, 354.4, 389.3, 400.8 455.2, 493.6, 547.9, 560.6 674.8,690.4 738, 850.3, 944.2, 1023.5, 1136.6, 1232 1328.9, 1447.2, 1502.9, 1636.7, 1757, 1851 1996, 2164, 2402, 2530, 3027, 3644,

**Connection**

<b>Connection A (Sensor)</b>	PVC	
Pin 1 Vhall 3-18 VDC	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
Conector		
JST PH2.0-8P		

<b>Connection B (Sensorless)</b>	PTFE	
Pin 1 Motor winding MC	AWG26	Yellow
Pin 2 Motor winding MB	AWG26	Green
Pin 3 Motor winding MA	AWG26	Blue

**Configuration**

Pinion: Metal/Plastic  
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/Dimensions/length  
Connector: JST/MOLEX/TE

**More:**  
Special design for high speed/big torque  
ECD series can be chosen in some application  
Details please contact our sales engineer