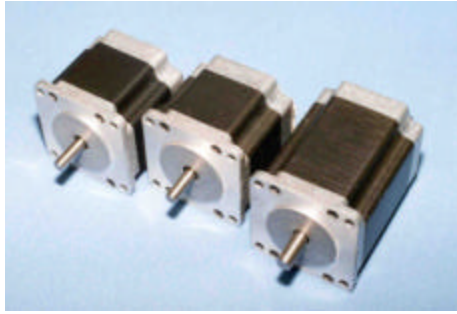


# Farnell Hybrid Stepper motor data



## Size 23

Body: H = 57.2  
 W = 57.2  
 D = 41.0 ( 23HSX-102)  
 D = 55 ( 23HSX-206 & E)  
 D = 78.5 ( 23HSX-306 & E)

shaft: 20.6 x 6.35 dia. ( 23HSX-206 & E )  
 20.6 x 8.0 dia ( 23HSX-306 & E )  
 rear shaft: 19 long



## Size 34

Body H = 86  
 W = 86

D = 67 ( 34HSX-108 & E )  
 D = 94 ( 34HSX-208 & E )  
 D = 125 ( 34HSX-312 & E )  
 shaft: 30.2 x 9.525 dia  
 rear shaft: 28.5 long

- high quality NEMA 23 & 34 frame size motors
- high energy magnet technology provides typically 50% more torque than standard hybrid types
- rear shaft options for fitting encoders, handwheels, parking brakes etc.
- high resolution ( 1.8 degree step size ) also suitable for half stepping and microstepping
- 8 lead connection suitable for 4 phase Uni-polar drives and Bi-polar drives with series or parallel connected coils

Uni-polar operation	Maximum Rated Current		Resistance per phase	Inductance per phase	Bi-polar Holding Torque	Step angle	Body size	type
	Bi-polar operation Coils in Series	Coils in Parallel						
1.0A	0.7A	1.4A	( Ω ) 4.6	( mH ) 4.6	( mNm ) 470	1.8°	23	23HSX-102
1.0A	0.7A	1.4A	6.2	8.8	980	1.8°	23	23HSX-202
3.0A	2.1A	4.2A	1.1	1.7	1630	1.8°	23	23HSX-306
4.3A	3.0A	6.0A	0.55	2.1	2800	1.8°	34	23HSX-108
4.3A	3.0A	6.0A	0.75	3.5	4800	1.8°	34	34HSX-208
6.4A	4.0A	8.5A	0.50	2.5	7600	1.8°	34	34HSX-312