

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

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