

Bholanath



Precision Engineering Pvt.Ltd.



COMMITTED TO PRECISION
www.bholanath.in

Made In India



Step Servo Motor
With
Brake & Planetary Gear



Modbus
Step Servo Drive



Ethercat
Step Servo Drive

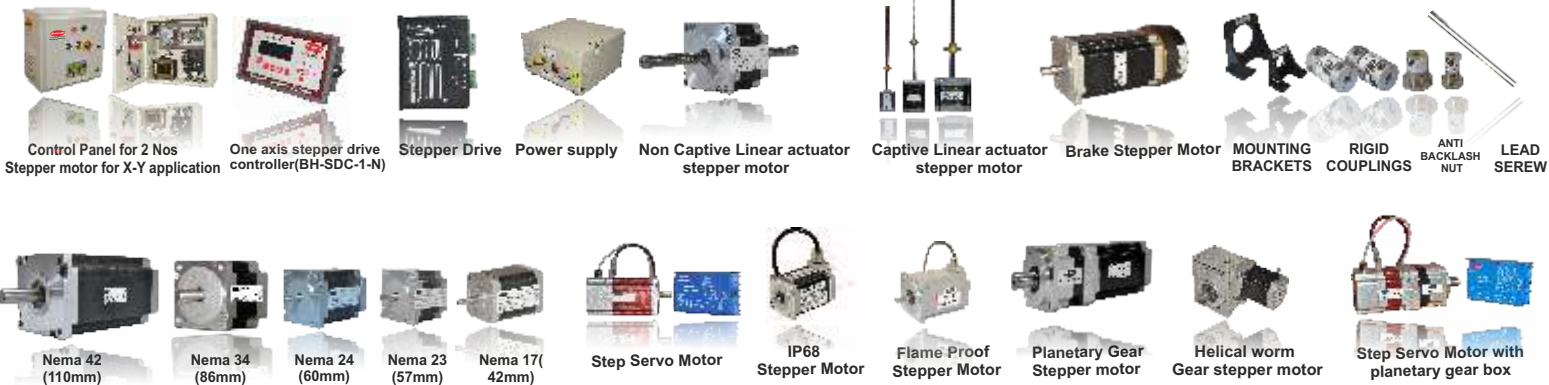


Helical Worm
Gear Box Stepper Motor



Nema 42 (110mm)
Hybrid Stepper Motor

BHOLANATH COOL STEPPERS®



Global Leader & Manufacturer Of

Stepper Motors, Step Servo Motors, Drives, Controllers,
Linear Actuators & Complete Automation of Machines
and Assemblies.

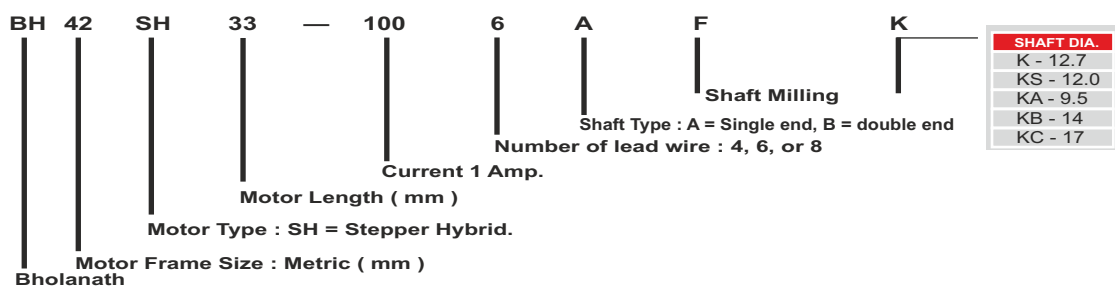
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Version - 4.7

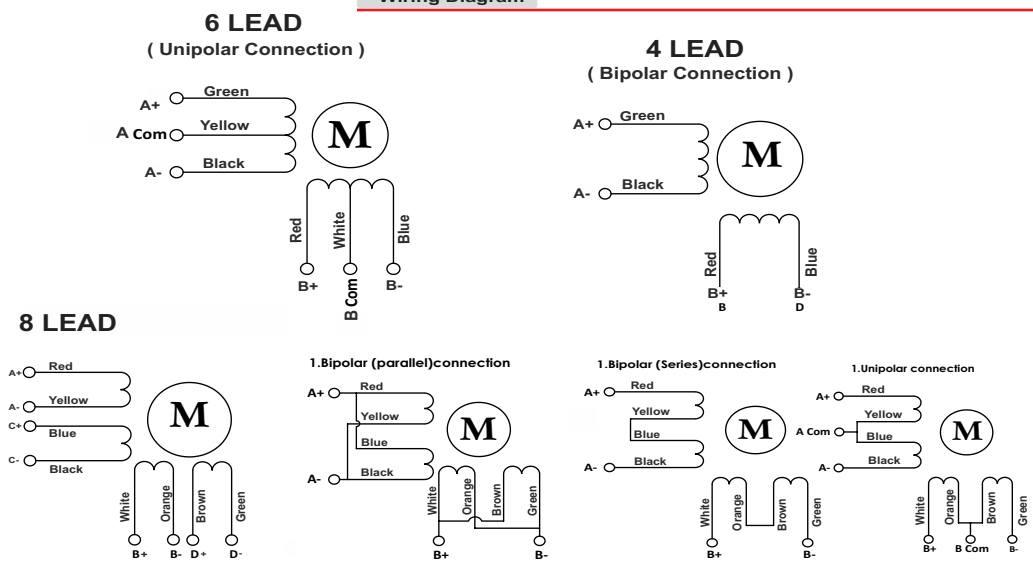
Bholanath Cool stepper motor and step servo are **MADE IN INDIA(MUMBAI)**. **Bholanath** cool stepper motor, step servo, Drives, controller are well known for there high performance, cost efficiency and maintenance free operation. Step servo are closed loop stepper motor with very high RPM"S. The complete manufacturing facility is in house. We provide one year warranty. Our product have 100% Traceability and are highly cost competitive. We ensure quick deliveries. All our motor are ROHS and REACH Complied. CE marked, IP65 stepper motor, IP68 stepper motor, Flame proof stepper motor and customized motors are on order

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◆ **Product Number Code For Hybrid Stepper Motor**



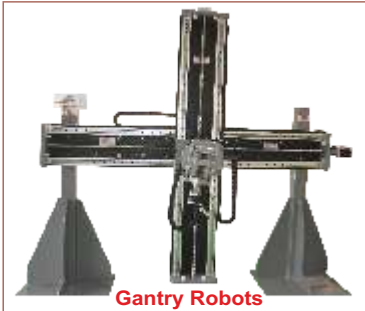
Wiring Diagram



Bholanath is Technology driven company manufacturing various hi-tech industrial and farm products. we are manufacturing various automation products which are useful in low cost automation of production lines, accurate with position repeatability and very less time cycles.

1) Gantry Robots / Cartesian Robots / Linear Robots -

Gantry robots work with respect to x y z coordinate systems. They are vertically mounted on shop floor. There are easier to program and mostly custom built as per applications. Position accuracy of gantry robot is in microns. These are used in pick and place applications and also used in assembly line loading and unloading operations, welding systems, automated X ray systems, painting booths etc.



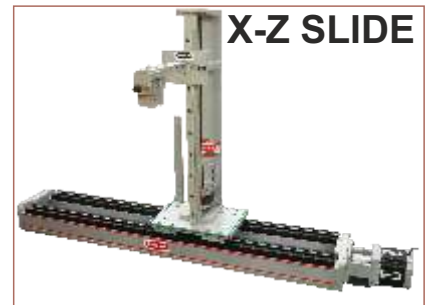
2) Scara Robots - 4 axis pick and place robots with a payloads of 0.1 kg to 10 kg. Standard models are 2 kg and 5 kg payloads are available which has simple user friendly motion controller technology.



3) Linear Slides X,Y,Z - Highly accurate and precise ball screw and lead screw slides with length from 100 mm to 3000 mm are manufactured with payloads from 0.1 kg to 10 tons and feed rates as per requirements. Accuracies up to 2 microns are manufactured.

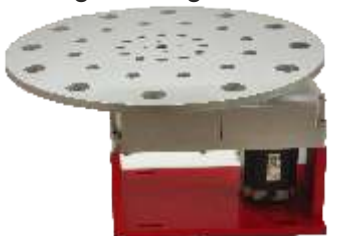
4) X-Y Slides - Ball screw and Lead screw high precision X-Y tables from 150mm x 150mm to 3000mm to 3000mm with payloads and feed rates as per requirement.

5) X-Y-Z slides - Accurate position x y z construction as per requirement, Max length available up to 3000 mm x 3000 mm x 3000 mm with required payloads and feed rates.



6) Rotary tables - Heavy duty stepper motor Technology with accurate indexing, industry standard Rotary table for application in machine tool industry .Load from 50 kg to 200 kg standard models are available. Heavy duty rotary tables from 300 kg to 20 Tonnes are designed and manufactured as per requirement.

7) Rotary Indexing tables- Light duty Rotary indexing tables for assembly line and packaging applications, from 1 kg to 30 kg loads are available.



INDEXING TABLE



Turn Table

8) Rod Style Electric Linear actuators - Stepper motor based Technology with inbuilt electronics, motorised electric actuators are available for .

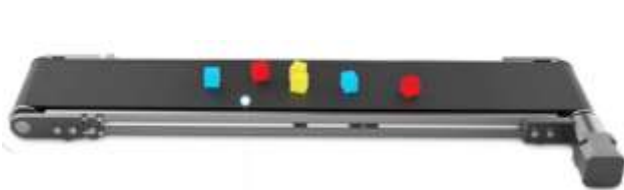
1. Standard applications feed speed 5 mm to 10 mm per second and loads from 500 N to 10000 N, Travel length upto 300 mm.
2. High speed applications for pneumatic industry feed speeds 50 mm to 300 mm per second and loads from 30 N to 200 N, Travel length upto 300 mm.
3. Heavy duty application for hydraulic industry with variable feed speed and loads from 12000 N to 100000 N, feed speed adjustable and travel length upto 3000 mm.
4. For industrial applications motorized ball screw actuators for high load capacity and high feed rates.
5. Electric actuator stepper motor for general machinery applications.



9) Drill machine automation - Z Axis automation with foot switch to eliminate human fatigue and more production and converting drill machines to Mini VMC for multiple and complex drilling operations are available. These are very economical automation which saves labour space and power and gives more production.



10) Conveyor Applications - Highly accurate stepper motor based Technology with user-friendly electronics at economical price with single phase power operation. This eliminates AC motor with VFD technology to give better control, long durable life and more load taking capacity in smaller frame size.



11) Lathe, Milling Grinding machine automation - All kinds of general purpose machinery are converted into automatic Motion Control Systems with user friendly controls for more productivity. These are very economical automation which saves labour, space, power and gives more production.



12) Special purpose automation equipment - We convert any processes, production requirements, assembly line requirements, labour intensive applications to easy to use, economical automated machines. For example the right side photo is of induction machine hardening automation which is placing the component for induction hardening and automatic liquid drenched cooling.



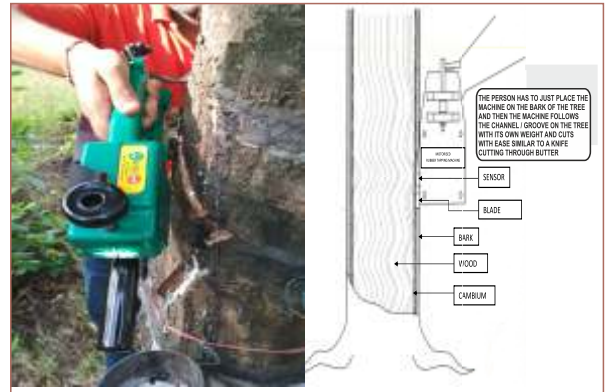
13) Farm Automation - Bholanath manufactures international patented motorized rubber tree tapping machine which increases the productivity of rubber latex manifolds by increasing the life of the trees and can be used by non skilled workforce. Other products like motorised grass / Bush cutting machine and motorized outboard motor for boats are available. This saves recurring petrol / diesel and very economical and user friendly and environmental friendly products.



Tool Kits



Rubber Tree tapping Machine



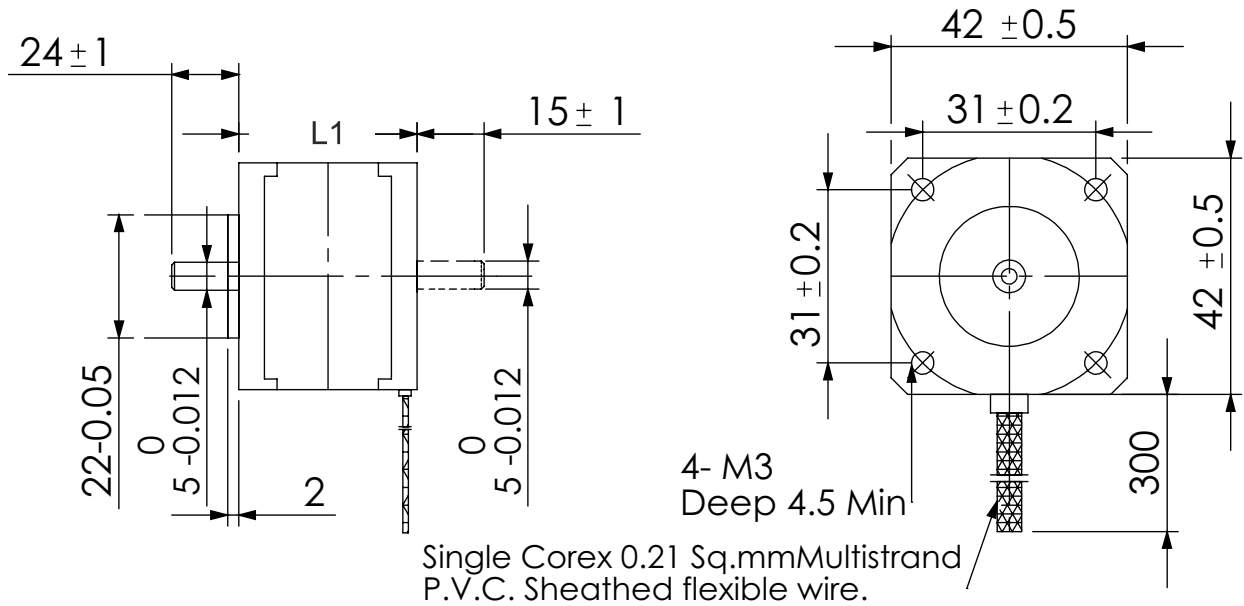
CERTIFICATION



1.8° High Torque Hybrid Stepper Motor size NEMA 17 (42mm)

Square Frame

Committed to precision
www.bholanath.in



Bipolar Models

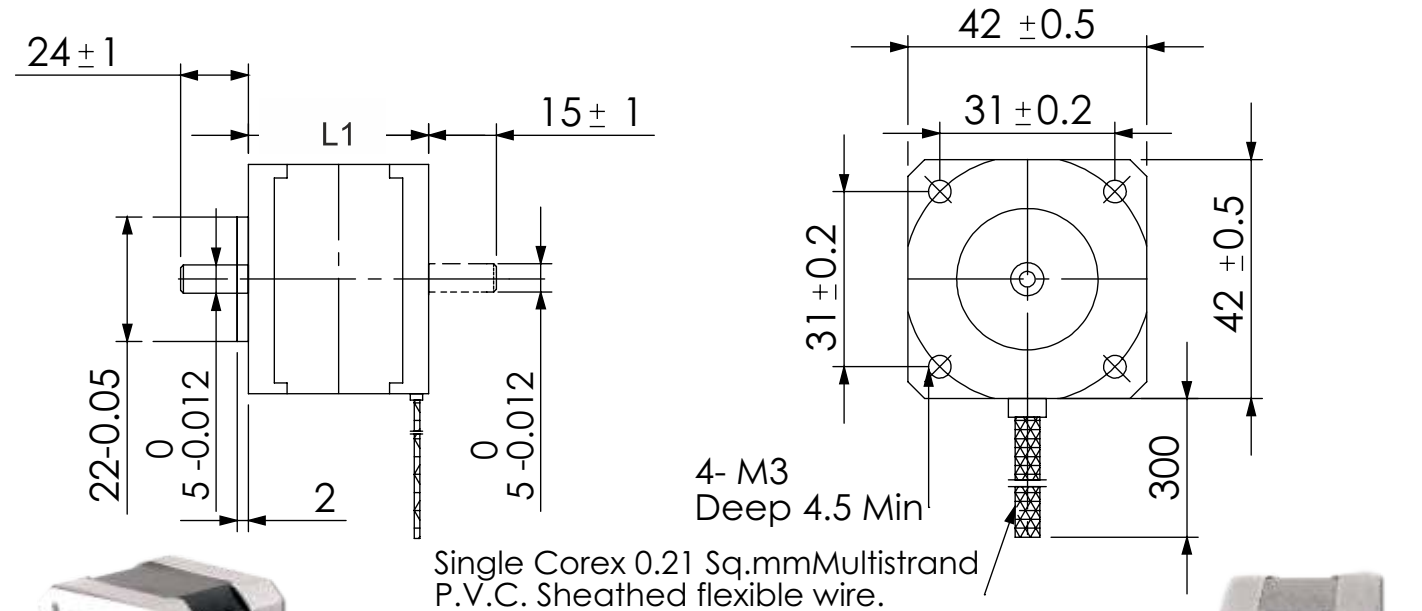
SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 20 - 0404 A	12-24	2.72	0.4	6.8	3.8	0.65	0.065	4	35	0.110	20	1-1500
2	BH 42 SH 25 - 0404 A	12-24	12	0.4	30	14.14	1.2	0.12	4	35	0.185	25	1-1500
3	BH 42 SH 33 - 1334 A	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.270	33	1-1500
4	BH 42 SH 33 - 0404 A	12-24	12	0.4	30	22	2.6	0.26	4	35	0.220	33	1-1500
5	BH 42 SH 38 - 1684 A	12-24	3.44	1.68	2.1	3.28	3.6	0.36	4	54	0.270	38	1-1500
6	BH 42 SH 38 - 1004 A	12-24	4.60	1	4.6	5.2	3.5	0.35	4	54	0.27	38	1-1500
7	BH 42 SH 40 - 1204 A	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	40	1-1500
8	BH 42 SH 40 - 1704 A	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	40	1-1500
9	BH 42 SH 47 - 1004 A	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
10	BH 42 SH 47 - 1704 AF	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47	1-1500
11	BH 42 SH 47 - 1504 AF	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47	1-1500
12	BH 42 SH 51 - 1504 A	12-24	4.86	1.5	3.2	6	7.0	0.7	4	84	0.410	51	1-1500
13	BH 42 SH 60 - 0854 AF	24-48	10.2	0.85	12	18	9	0.9	4	102	0.487	60	1-1500

Unipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Length	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Run/min
14	BH 42 SH 33 - 0606 A	12-37	5.28	0.6	8.8	4.2	1.58	0.158	6	35	0.22	33	1-1500
15	BH 42 SH 33 - 1006 A	12-37	4.2	1	4.2	1.85	1.58	0.158	6	35	0.22	33	1-1500
16	BH 42 SH 33 - 0316 A	12-37	11.94	0.31	38.5	6.9	1.58	0.158	6	35	0.22	33	1-1500
17	BH 42 SH 38 - 1206 A	12-37	4.2	1.2	3.5	1.85	2.59	0.259	6	54	0.28	38	1-1500
18	BH 42 SH 47 - 1206 A	12-37	4.2	1.2	3.5	2.1	3.17	0.317	6	68	0.36	47	1-1500
19	BH 42 SH 60 - 1206 A	18-37	7.22	1.2	6.02	4.3	6.5	0.65	6	102	0.5	60	1-1500

MEDICA MOTORS

These Motors Have Characteristics of Very Low Detent Torque, Minimal Vibrations & Very Low Sound. Best Suited For Machines Where Low Sound And No Vibrations Are Essential Like Diagnostic Machines & Medical Equipments



Single Shaft - A



Double Shaft - B

Bipolar Models

Product Code No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 A-B6	12-24	2.8	1.33	2.1	2.19	1.8	0.18	4	35	0.270	33	1-1500
2	BH 42 SH 33 - 0404 A-B6	12-24	12	0.4	30	27.3	1.85	0.185	4	35	0.220	33	1-1500
3	BH 42 SH 38 - 1004 A-B10	12-24	4.60	1	4.6	5.26	2.3	0.23	4	54	0.27	38	1-1500
4	BH 42 SH 38 - 1684 A-B10	12-24	3.52	1.68	2.1	3.08	3.2	0.32	4	54	0.270	38	1-1500
5	BH 42 SH 40 - 1204 A-B10	12-24	3.36	1.2	2.86	4.19	2.7	0.27	4	68	0.360	40	1-1500
6	BH 42 SH 40 - 1704 A-B10	12-24	2.72	1.7	1.6	4.59	3.7	0.37	4	68	0.360	40	1-1500
7	BH 42 SH 47 - 1704 AF-B12	12-24	2.89	1.7	1.7	2.87	3.8	0.38	4	68	0.365	47	1-1500
8	BH 42 SH 47 - 1004 A-B12	12-24	7.8	1	7.8	9.52	4	0.4	4	68	0.365	47	1-1500
9	BH 42 SH 47 - 1504 AF-B12	12-24	4.2	1.5	2.8	5.95	4.12	0.412	4	68	0.365	47	1-1500
10	BH 42 SH 51 - 1504 AF-B12	12-24	4.86	1.5	3.2	6.15	4.5	0.45	4	84	0.410	51	1-1500
11	BH 42 SH 60 - 0854 AF-B12	24-48	10.2	0.85	12	17.23	0.48	4.8	4	102	0.487	60	1-1500

Unipolar Models

Product Code No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Length	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
12	BH 42 SH 33 - 0606 A-B6	12-37	5.28	0.6	8.8	3.9	2.12	0.212	6	35	0.22	33	1-1500
13	BH 42 SH 33 - 1006 A-B6	12-37	4.2	1	4.2	2	2.35	0.235	6	35	0.22	33	1-1500
14	BH 42 SH 33 - 0316 A-B6	12-37	11.94	0.31	38.5	16.18	2	0.2	6	35	0.22	33	1-1500
15	BH 42 SH 38 - 1206 A-B10	12-37	4.2	1.2	3.5	1.6	3.01	0.301	6	54	0.28	38	1-1500
16	BH 42 SH 47 - 1206 A-B12	12-37	4.2	1.2	3.5	1.91	4.55	0.455	6	68	0.36	47	1-1500
17	BH 42 SH 60 - 1206 AF-B12	18-37	7.22	1.2	6.02	3.87	5.1	0.51	6	102	0.5	60	1-1500

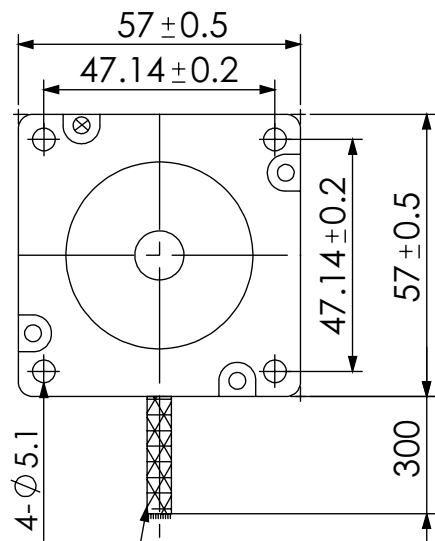
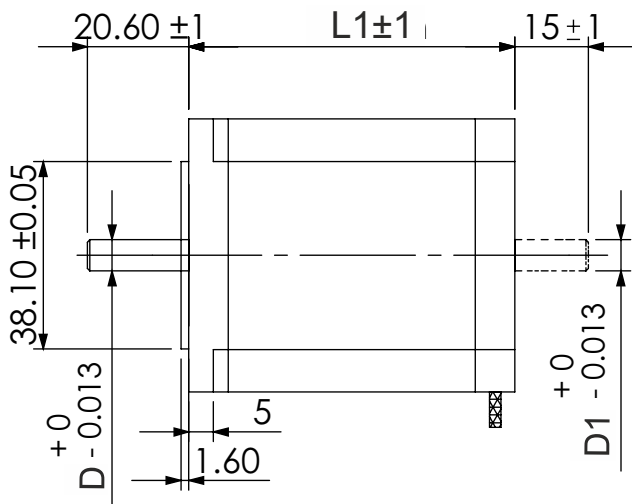
Please refer website www.bholanath.in for complete technical details.

1.8° High Torque Hybrid Stepper Motor size NEMA 23 (57mm)

Square Frame



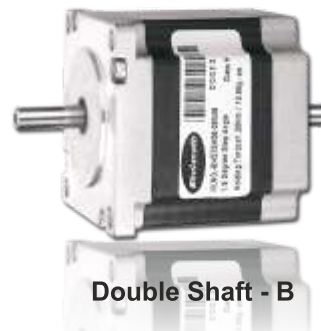
Committed to precision
www.bholanath.in



Single Core x 0.34 sq mm
Multistrand P.V.C. Sheathed
Flexible Wire.



Single Shaft - A



Double Shaft - B

Bipolar Models

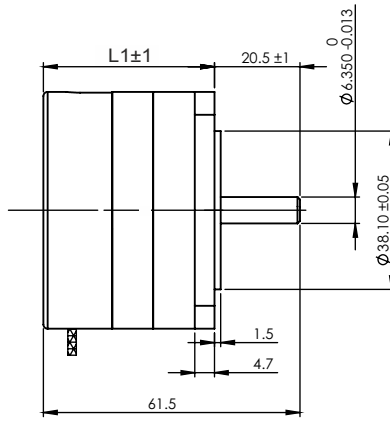
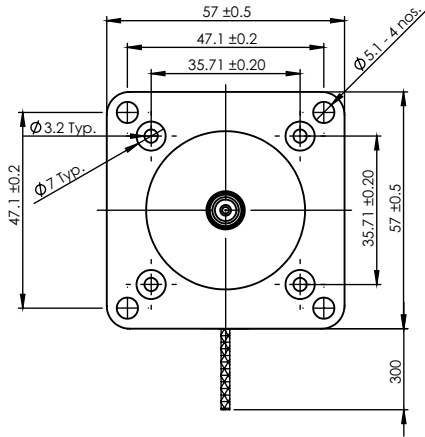
SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
1	BH 57 SH 41 - 2804 A	24-48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	6.35	6.35	1-1500
2	BH 57 SH 51 - 2804 A	24-48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	6.35	6.35	1-1500
3	BH 57 SH 56 - 2004 A	24-48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
4	BH 57 SH 56 - 2804 A	24-48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
5	BH 57 SH 76 - 2804 A	24-48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	76	6.35	6.35	1-1500
6	BH 57 SH 81 - 2804 A	24-48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
7	BH 57 SH 81 - 4004 A	24-48	2	4	0.5	1.4	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
8	BH 57 SH 100 - 3004 A	24-48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100	10.0	10.0	1-1500

Unipolar Models

SR.No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
9	BH 57 SH 41 - 1006 A	18-37	5.7	1	5.7	3.9	3.9	0.39	6	120	0.46	41	1-1500
10	BH 57 SH 51 - 1006 A	18-37	6.6	1	6.6	6.1	7.2	0.72	6	275	0.65	51	1-1500
11	BH 57 SH 56 - 1006 A	21-37	7.4	1	7.4	7.5	9	0.9	6	300	0.73	56	1-1500
12	BH 57 SH 76 - 1006 A	24-37	8.6	1	8.6	7.8	13.5	1.35	6	480	1.05	76	1-1500
13	BH 57 SH 76 - 2006 A	18-37	4.4	2	2.2	3.3	13.5	1.35	6	480	1.05	76	1-1500
14	BH 57 SH 100 - 3006 A	24-60	9	3	3	6.5	25	2.5	6	600	1.5	100	1-1500
15	BH 57 SH 100 - 4006 A	24-60	6.52	4	1.63	3.4	25	2.5	6	600	1.5	100	1-1500

1.8° High Torque Hybrid Stepper Motor size NEMA 23 (56mm)

Round Frame

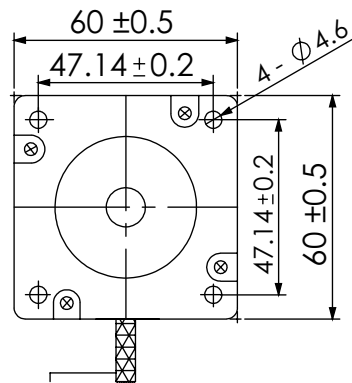
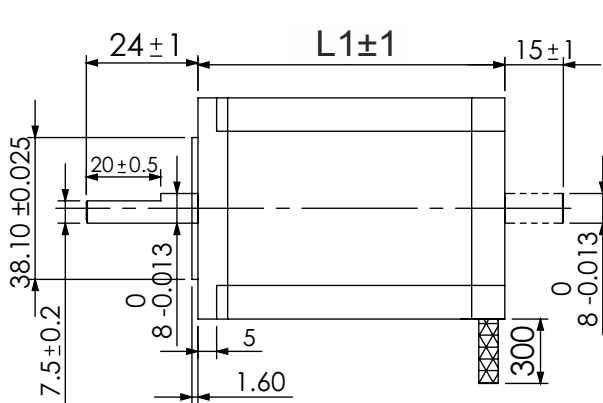


Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 56 SH 41 - 2804 A	24-28	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	1-1500
2	BH 56 SH 56 - 2804 A	24-48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	1-1500
3	BH 56 SH 81 - 2804 A	24-48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.5	81	1-1500

1.8° High Torque Hybrid Stepper Motor size NEMA 24 (60 mm)

Square Frame



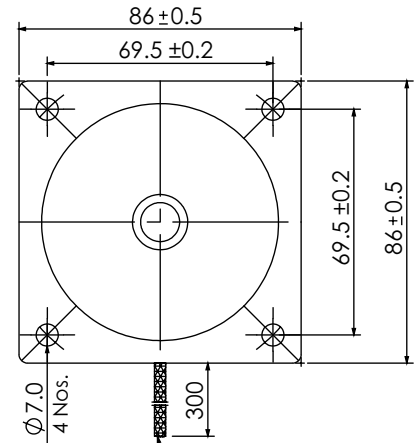
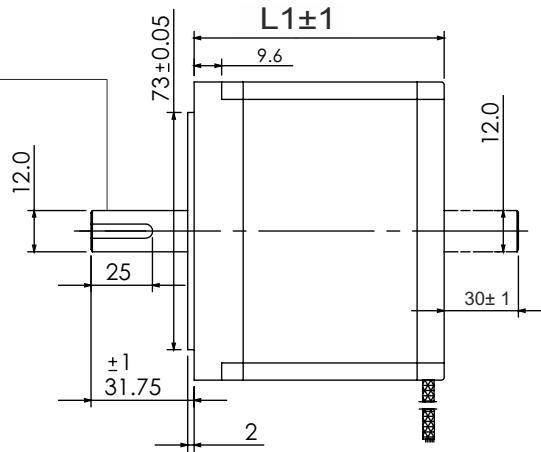
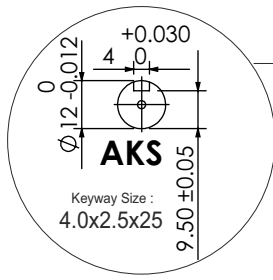
Single Core x 0.34 sq mm
Multistrand P.V.C. Sheathed
Flexible Wire.



Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 60 SH 65 - 2804 AF	24-48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65	1-1500
2	BH 60 SH 86 - 2804 AF	24-48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86	1-1500
3	BH 60 SH 86 - 4004 AF	24-48	2.76	4.0	0.69	2.65	31	3.1	4	840	1.4	86	1-1500

Please refer website www.bholanath.in for complete technical details.



Single Core x 0.80 Sq.mm
Multistrand PVC Sheathed
flexible wire.



Single Shaft - A



Double Shaft - B

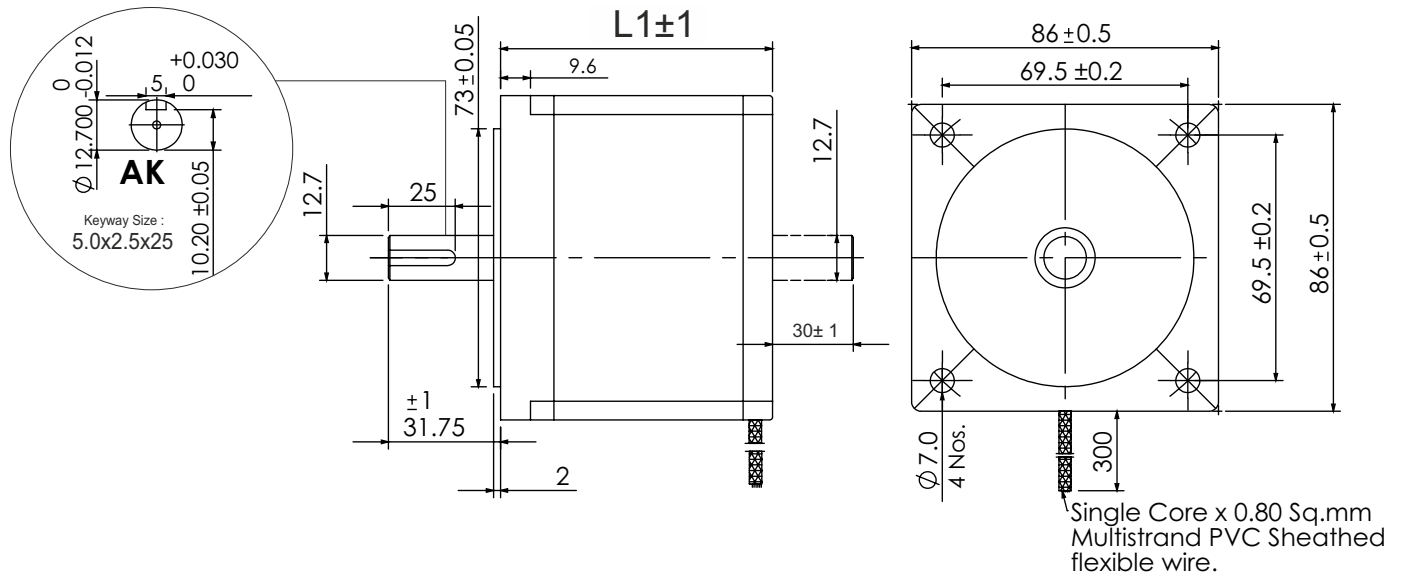
Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 86 SH 65 - 2004 AKS	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65	1-1500
2	BH 86 SH 65 - 4104 AKS	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	65	1-1500
3	BH 86 SH 65 - 6004 AKS	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65	1-1500
4	BH 86 SH 80 - 2004 AKS	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80	1-1500
5	BH 86 SH 80 - 4104 AKS	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80	1-1500
6	BH 86 SH 80 - 5504 AKS	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	80	1-1500
6	BH 86 SH 96 - 2004 AKS	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96	1-1500
7	BH 86 SH 96 - 4004 AKS	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96	1-1500
8	BH 86 SH 96 - 5504 AKS	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	96	1-1500
9	BH 86 SH 118 - 4004 AKS	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	118	1-1500
10	BH 86 SH 118 - 6004 AKS	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	118	1-1500
11	BH 86 SH 156 - 6004 AKS	48 - 170	4.8	6	0.8	10.5	133	13.3	4	4000	5.5	156	1-1500
12	BH 86 SH 156 - 6204 AKS	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	156	1-1500

Unipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
13	BH 86 SH 65 - 4206 AKS	48 - 170	2.6	4.2	0.62	1.31	28	2.8	6	1000	1.85	65	1-1500
14	BH 86 SH 96 - 4006 AKS	48 - 170	4.04	4	1.01	3.5	41.3	4.13	6	2700	3.1	96	1-1500
15	BH 86 SH 118 - 4206 AKS	48 - 170	3.49	4.2	0.83	4.25	62.7	6.27	6	2700	4	118	1-1500
16	BH 86 SH 156 - 4206 AKS	48 - 170	6.63	4.2	1.58	7.02	92	9.2	4	4000	5.5	156	1-1500
17	BH 86 SH 156 - 4006 AKS	48 - 170	6.68	4	1.52	6.2	135	13.5	4	5500	5.5	156	1-1500

Please refer website www.bholanath.in for complete technical details.



Single Shaft - A



Double Shaft - B

Bipolar Models

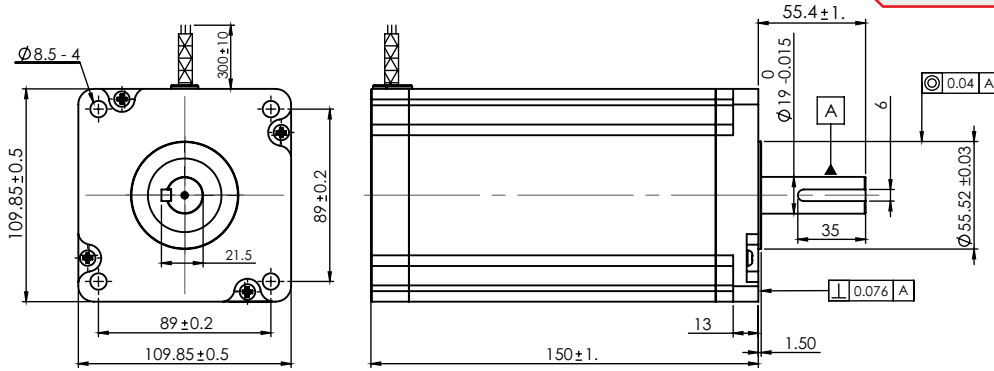
SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor Inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 86 SH 65 - 3004 AK	48 - 170	3.75	3	1.25	4.6	34	3.4	4	1000	1.85	65	1-1500
2	BH 86 SH 65 - 4004 AK	48 - 170	1.88	4	0.47	2.8	34	3.4	4	1000	1.85	65	1-1500
3	BH 86 SH 80 - 4004 AK	48 - 170	4	4	1	9.7	46	4.6	4	1400	2.5	80	1-1500
4	BH 86 SH 80 - 5504 AK	48 - 170	2.42	5.5	0.44	3.6	46	4.6	4	1400	2.5	80	1-1500
5	BH 86 SH 96 - 4004 AK	48 - 170	3.80	4.0	0.95	6.80	68	6.80	4	2700	3.1	96	1-1500
6	BH 86 SH 96 - 5504 AK	48 - 170	2.75	5.5	0.50	3.55	70	7.0	4	2700	3.1	96	1-1500
7	BH 86 SH 118 - 4004 AK	48 - 170	3.08	4	0.77	4.5	87	8.7	4	2700	4	118	1-1500
8	BH 86 SH 118 - 6004 AK	48 - 170	2.52	6	0.42	4.25	87	8.7	4	2700	4	118	1-1500
9	BH 86 SH 156 - 6004 AK	48 - 170	4.8	6	0.8	10.5	128	12.8	4	4000	5.5	156	1-1500
10	BH 86 SH 156 - 6204 AK	48 - 170	5.27	6.2	0.85	9.4	180	18	4	5500	5.5	156	1-1500

1.8° High Torque Hybrid Stepper Motor size NEMA 42 (110mm)

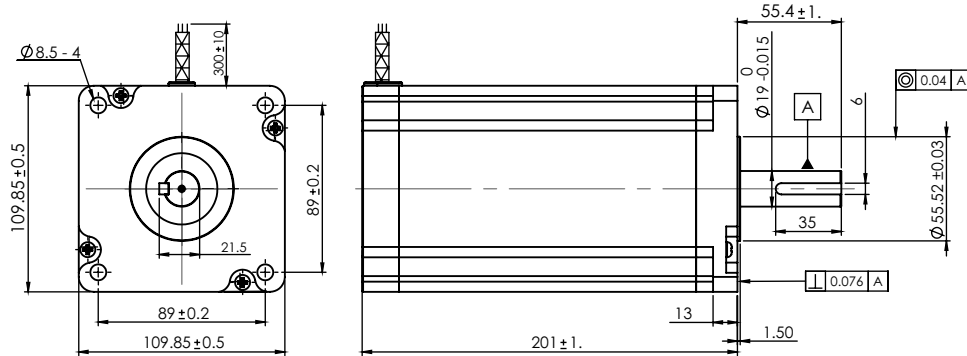
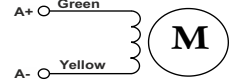
Square Frame



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4 LEAD
(Bipolar Connection)

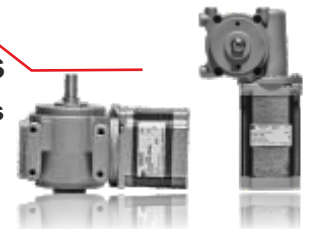


Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VAC / VDC	V	A	Ω	mH	Kgcm	Nm					
1	BH 110 SH 150 - 6504 AK	60 / 130 84 / 182	6.5	6.5	1	15.89	220	22	4	10900	8.4	150	1-1500
2	BH 110 SH 201 - 8004 AK	60 / 130 84 / 182	5.84	8	0.73	14.01	300	30	4	16200	11.7	201	1-1500

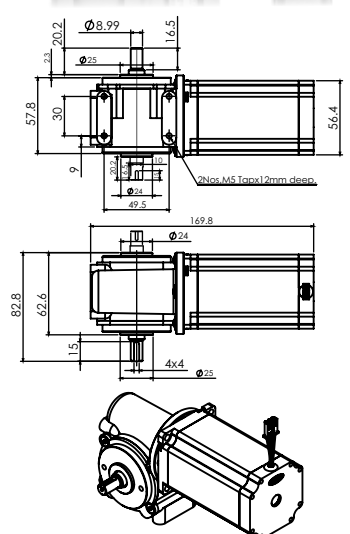
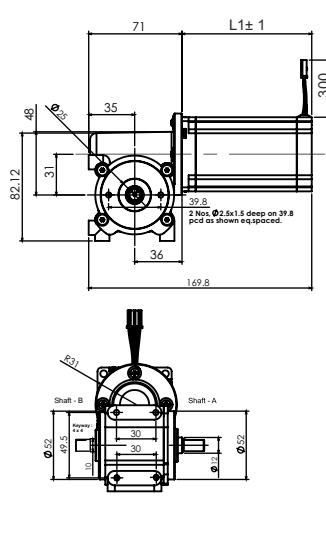
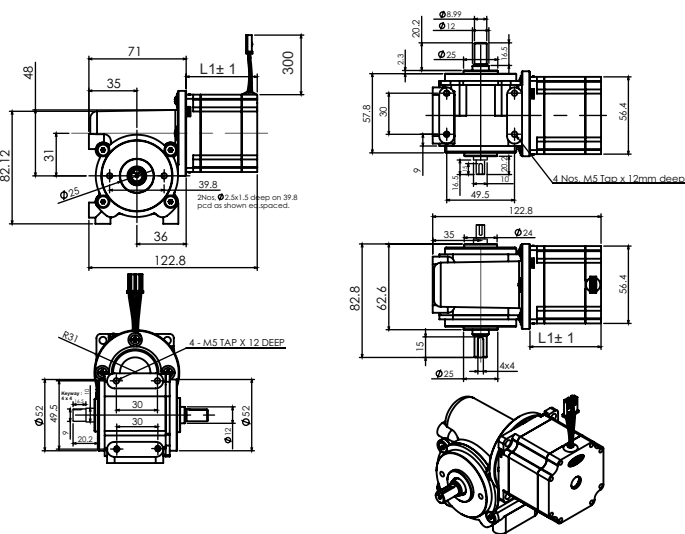
1.8° High Torque Hybrid Helical Geared Stepper Motors

Helical Geared Stepper Motors



Helical Gearbox Ratio

Model	Type of gear box	Ratio
BH 57 SH	Helical	i = 8:1



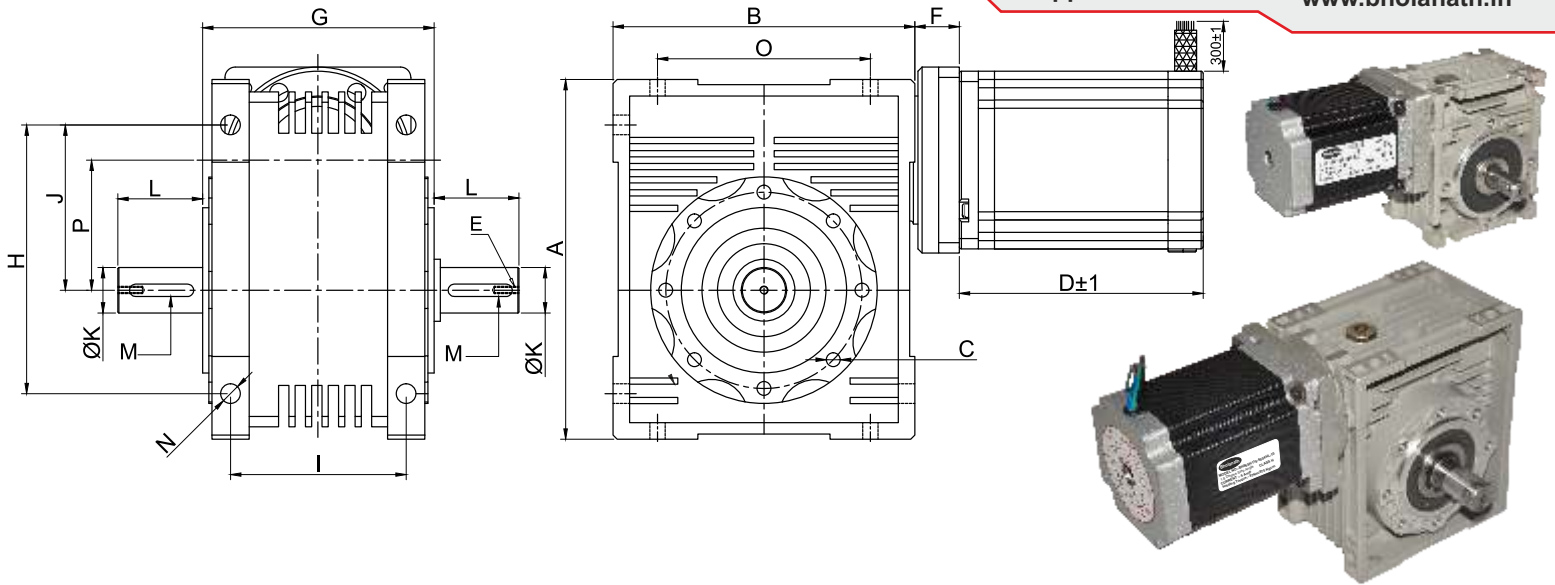
Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm				
1	BH 57 SH 52 - 2004 AK	24-48	1.72	2	0.86	2.22	64	6.4	4	1.2	52	1-200
2	BH 57 SH 56 - 2804 AK	24-48	4.68	3	1.01	2.56	96	9.6	4	1.27	56	1-200
3	BH 57 SH 100 - 3004 AK	24-48	4.68	3	1.56	6.6	150	15	4	2.1	100	1-200

1.8° High Torque Helical Worm Gear Stepper Motor

Helical Geared Stepper Motors

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Mechanical Parameter

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
BH 57 SH 81 - 2804 HL-7.5	121.5	101	M6x10-4Nos. PCD-75	81±1	M6x16	15.3	78	90	60	55	Ø16	40	5x5x25	6.5	70	40
BH 60 SH 65 - 2804 HL-10	121.5	101	M6x10-4Nos. PCD-75	65±1	M6x16	15.3	78	90	60	55	Ø16	40	5x5x25	6.5	70	40
BH 60 SH 65 - 2804 HL-15	121.5	101	M6x10-4Nos. PCD-75	65±1	M6x16	15.3	78	90	60	55	Ø16	40	5x5x25	6.5	70	40
BH 60 SH 65 - 2804 HL-20	121.5	101	M6x10-4Nos. PCD-75	65±1	M6x16	15.3	78	90	60	55	Ø16	40	5x5x25	6.5	70	40
BH 60 SH 86 - 2804 HL-20	144	121	M8x11-4Nos. PCD-85	86±1	M8x16	17	92	104	70	64	Ø25	50	6x6x30	8.5	80	50
BH 86 SH 80 - 5504 HL-15	174	146	M8x14-8Nos. PCD-95	80±1	M8x16	21.5	112	130	85	80	Ø25	50	6x6x30	8.5	100	63
BH 86 SH 118 - 6004 HL-7.5	174	146	M8x14-8Nos. PCD-95	118±1	M8x16	21.5	112	130	85	80	Ø25	50	6x6x30	8.5	100	63
BH 86 SH 118 - 6004 HL-10	174	146	M8x14-8Nos. PCD-95	118±1	M8x16	21.5	112	130	85	80	Ø25	50	6x6x30	8.5	100	63
BH 86 SH 118 - 6004 HL-15	174	146	M8x14-8Nos. PCD-95	118±1	M8x16	21.5	112	130	85	80	Ø25	50	6x6x30	8.5	100	63
BH 86 SH 118 - 6004 HL-20	174	146	M8x14-8Nos. PCD-95	118±1	M8x16	21.5	112	130	85	80	Ø25	50	6x6x30	8.5	100	63
BH 110 SH 150 - 6504 HL-10	238	206	M10x18-16Nos. PCD-130	150±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90
BH 110 SH 150 - 6504 HL-20	238	206	M10x18-16Nos. PCD-130	150±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90
BH 110 SH 150 - 6504 HL-30	238	206	M10x18-16Nos. PCD-130	150±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90
BH 110 SH 201 - 8004 HL-20	238	206	M10x18-16Nos. PCD-130	201±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90
BH 110 SH 201 - 8004 HL-30	238	206	M10x18-16Nos. PCD-130	201±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90
BH 110 SH 201 - 8004 HL-50	238	206	M10x18-16Nos. PCD-130	201±1	M10x16	25	140	172	100	112	Ø35	47	10x3.5x35	13	140	90

Bipolar Models

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Weight	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		Kg	Rev/min
1	BH 57 SH 81 - 2804 HL-7.5	24 - 48	3.65	2.8	1.3	4.9	165	16.5	4	4.0	1-66
2	BH 60 SH 65 - 2804 HL-10	24 - 48	3.36	2.8	1.2	4.2	210	21.0	4	4.0	1-50
3	BH 60 SH 65 - 2804 HL-15	24 - 48	3.36	2.8	1.2	4.2	310	31.0	4	4.0	1-33
4	BH 60 SH 65 - 2804 HL-20	24 - 48	3.36	2.8	1.2	4.2	420	42.0	4	4.0	1-25
5	BH 60 SH 86 - 2804 HL-20	24 - 48	4.48	2.8	1.6	6.5	620	62.0	4	5.85	1-25
6	BH 86 SH 80 - 5504 HL-15	48 - 170	2.42	5.5	0.44	3.65	690	69	4	9.9	1-33
7	BH 86 SH 118 - 6004 HL-7.5	48 - 170	2.52	6	0.42	4.25	650	65	4	11.9	1-66
8	BH 86 SH 118 - 6004 HL-10	48 - 170	2.52	6	0.42	4.25	870	87	4	11.9	1-50
9	BH 86 SH 118 - 6004 HL-15	48 - 170	2.52	6	0.42	4.25	1300	130	4	11.9	1-33
10	BH 86 SH 118 - 6004 HL-20	48 - 170	2.52	6	0.42	4.25	1740	174	4	11.9	1-25
11	BH 110 SH 150 - 6504 HL-10	120-200	6.5	6.5	1.0	15.89	2200	220	4	22	1-50
12	BH 110 SH 150 - 6504 HL-15	120-200	6.5	6.5	1.0	15.89	3300	330	4	22	1-35
13	BH 110 SH 150 - 6504 HL-30	120-200	6.5	6.5	1.0	15.89	4400	440	4	22	1-25
14	BH 110 SH 201 - 8004 HL-20	120-200	5.84	8	0.73	14.01	6000	600	4	25	1-25
15	BH 110 SH 201 - 8004 HL-30	120-200	5.84	8	0.73	14.01	9000	900	4	25	1-15
16	BH 110 SH 201 - 8004 HL-50	120-200	5.84	8	0.73	14.01	15000	1500	4	25	1-10

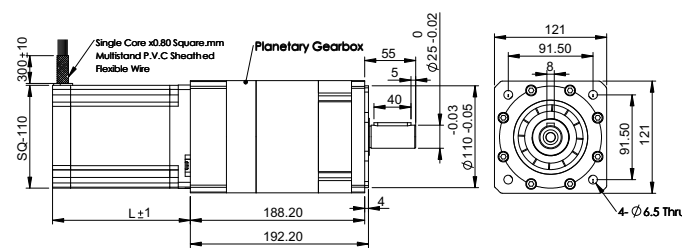
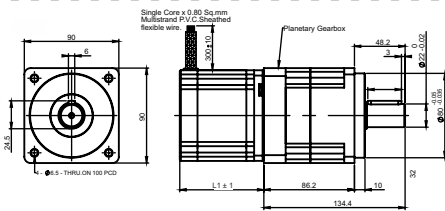
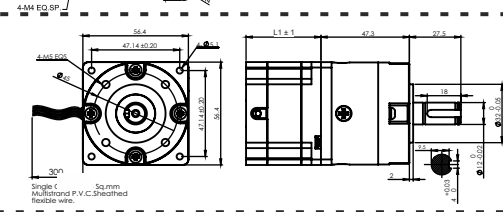
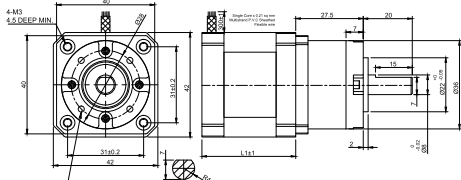
Please refer website www.bholanath.in for complete technical details.

1.8° High Torque Planetary Geared Stepper Motor

Planetary Geared Stepper Motors

Bholanath®

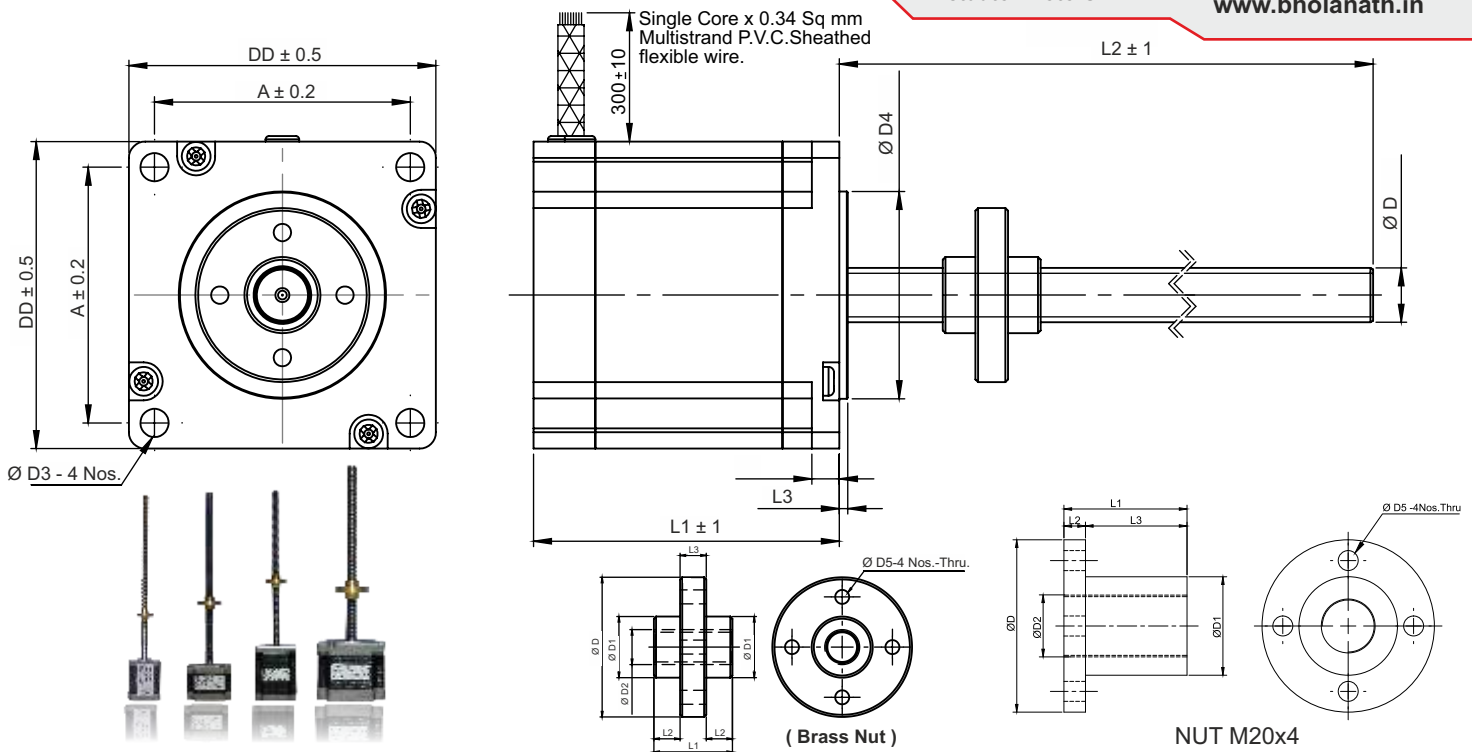
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Bipolar Models

SR.No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 PL-5.2	12-24	2.793	1.33	2.1	1.6	11	1.1	4	0.400	33	1-200
2	BH 42 SH 33 - 1334 PL-10.2	12-24	2.793	1.33	2.1	1.6	16	1.6	4	0.400	33	1-100
3	BH 42 SH 33 - 1334 PL-19.2	12-24	2.793	1.33	2.1	1.6	32	3.2	4	0.400	33	1-50
4	BH 42 SH 38 - 1684 PL-5.2	12-24	3.53	1.68	2.1	1.8	18	1.8	4	0.440	38	1-200
5	BH 42 SH 38 - 1684 PL-10.2	12-24	3.53	1.68	2.1	1.8	28	2.8	4	0.440	38	1-100
6	BH 42 SH 38 - 1684 PL-19.2	12-24	3.53	1.68	2.1	1.8	54	5.4	4	0.440	38	1-50
7	BH 42 SH 47 - 1704 PL-5.2	12-24	2.89	1.7	1.7	2.5	22	2.2	4	0.540	47	1-200
8	BH 42 SH 47 - 1504 PL-19.2	12-24	4.2	1.5	2.8	5.7	82	8.2	4	0.540	47	1-50
9	BH 42 SH 51 - 1504 PL-19.2	12-24	4.86	1.5	3.2	6.15	105	10.5	4	0.640	51	1-50
10	BH 42 SH 60 - 0854 PL-5.2	24-48	10.08	0.85	12	18	46	4.6	4	0.657	60	1-200
11	BH 57 SH 41 - 2804 PL-4.3	24-48	2.66	2.8	0.95	1.8	21	2.1	4	0.931	41	1-200
12	BH 57 SH 41 - 2804 PL-13	24-48	2.66	2.8	0.95	1.8	56	5.6	4	0.931	41	1-70
13	BH 57 SH 41 - 2804 PL-22.7	24-48	2.66	2.8	0.95	1.8	98	9.8	4	0.931	41	1-40
14	BH 57 SH 51 - 2804 PL-4.3	24-48	2.464	2.8	0.88	2.2	40	4	4	1.130	51	1-200
15	BH 57 SH 51 - 2804 PL-22.7	24-48	2.464	2.8	0.88	2.2	180	18.0	4	1.130	51	1-40
16	BH 57 SH 56 - 2804 PL-13	24-48	2.8	2.8	1.01	2.5	128	12.8	4	1.130	56	1-70
17	BH 57 SH 76 - 2804 PL-4.3	24-48	3.36	2.8	1.2	4.5	72	7.2	4	1.553	76	1-200
18	BH 57 SH 76 - 2804 PL-13	24-48	3.36	2.8	1.2	4.5	192	19.2	4	1.553	76	1-70
19	BH 60 SH 86 - 4004 PL-4.3	24-48	2.76	4.0	0.69	2.65	130	13.0	4	2.1	86	1-200
20	BH 60 SH 86 - 4004 PL-13	24-48	2.76	4.0	0.69	2.65	300	30.0	4	2.1	86	1-70
21	BH 86 SH 65 - 6004 PL-5	48-170	1.86	6	0.31	1.35	150	15	4	4.4	65	1-200
22	BH 86 SH 80 - 5504 PL-5	48-170	2.42	5.5	0.44	3.6	200	20	4	5.2	80	1-200
23	BH 86 SH 96 - 5504 PL-5	48-170	2.75	5.5	0.5	3.55	315	31.5	4	5.7	96	1-200
24	BH 86 SH 118 - 6004 PL-5	48-170	2.52	6	0.42	4.25	400	40	4	6.6	118	1-200
25	BH 86 SH 156 - 6004 PL-5	48-170	4.8	6	0.80	7.02	600	60	4	8.2	156	1-200
26	BH 86 SH 118 - 6004 PL-10	48-170	2.52	6	0.42	4.25	850	85	4	6.9	118	1-100
27	BH 86 SH 156 - 6004 PL-10	48-170	4.8	6	0.80	7.02	1250	125	4	8.5	156	1-100
28	BH 86 SH 156 - 6204 PL-10	48-170	5.27	6.2	0.85	9.4	1800	180	4	8.5	156	1-100
29	BH 86 SH 156 - 6004 PL-100	48-170	4.8	6	0.80	7.02	12800	1280	4	8.7	156	1-10
30	BH 86 SH 156 - 6204 PL-100	48-170	5.27	6.2	0.85	9.4	18000	1800	4	8.7	156	1-10
31	BH 110 SH 150 - 6504 PL-5	120-200	6.5	6.5	1.0	15.89	1100	110	4	15.0	150	1-165
32	BH 110 SH 150 - 6504 PL-10	120-200	6.5	6.5	1.0	15.89	2200	220	4	15.0	150	1-85
33	BH 110 SH 150 - 6504 PL-20	120-200	6.5	6.5	1.0	15.89	4400	440	4	15.0	150	1-45
34	BH 110 SH 201 - 8004 PL-5	120-200	5.84	8.0	0.73	14.01	1500	150	4	17.0	201	1-120
35	BH 110 SH 201 - 8004 PL-10	120-200	5.84	8.0	0.73	14.01	3000	300	4	17.0	201	1-60
36	BH 110 SH 201 - 8004 PL-20	120-200	5.84	8.0	0.73	14.01	5500	550	4	17.0	201	1-30

1.8° High Torque Hybrid Captive Linear Actuator Stepper Motor



Captive Linear Actuator Model Details

Model	DD	A	ØD3	L2	ØD4	L3	ØD
BH 42 SH - LA	42	31.0	M3 - 4.5 Deep Min.	250/300/450	22	2	M8X2 M8X1.25 TR 8 X 8
BH 57 SH - LA	57	47.14	Ø 5.1	250/300/450	38.1	1.6	M10X1.5 TR 8 X 8
BH 60 SH - LA	60	47.14	Ø 4.6	250/300/450	38.1	1.6	M10 X1.5
BH 86 SH - LA	86	69.50	Ø 7.0	250/300/450	73.0	2	M14 X 2 M20 X 4

Brass Nut Details

Model	ØD	ØD1	ØD2	L1	L3	L2	ØD5
BH 42 SH - LA	22	10.0	M8X1.25 TR 8 X 8	14.0	4.0	5.0	M3 X Ø16
BH 57 SH - LA	32	14.0	M10X1.5 TR 8 X 8	18.0	6.0	6.0	M4 X Ø23
BH 60 SH - LA	32	14.0	M10 X1.5	18.0	6.0	6.0	M4 X Ø23
BH 86 SH - LA	45	19.0	M14 X 2	25.5	8.5	8.5	M6 X Ø32
BH 86 SH - LA	56	32	M20 X 4	40.0	33.0	7.0	6.5 X Ø42.5

Bipolar Models

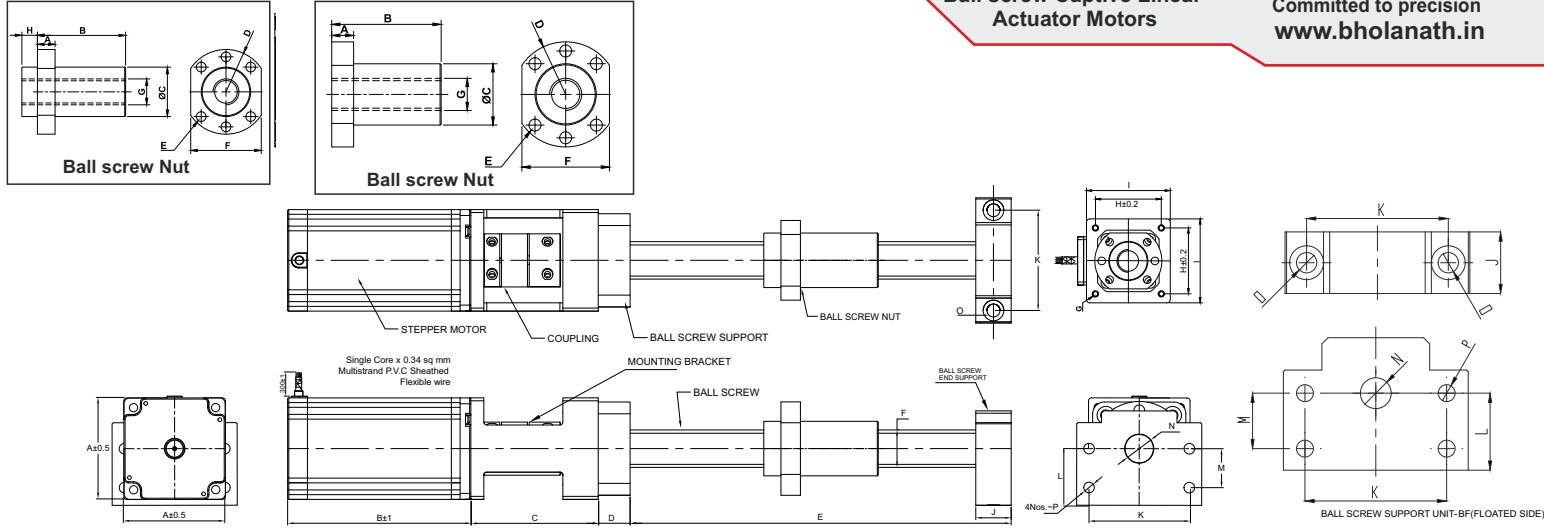
SR. No	Model No	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Feed Speed
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	mm/sec
1	BH 42 SH 38 - 1684 LA -250	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	66.6	0.38	38	1-31.5
2	BH 42 SH 47 - 1704 LA -250	12-24	2.8	1.7	1.7	2.5	4.4	0.44	4	91.03	0.475	47	1-31.5
3	BH 42 SH 47 - 1504 LA -250	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	91.03	0.475	47	1-31.5
4	BH 42 SH 60 - 0854 LA -250	24-48	10.2	0.85	12	18	9	0.9	4	126.75	0.59	60	1-31.5
5	BH 57 SH 51 - 2804 LA -250	24-48	2.46	2.8	0.88	2.2	10.1	1.01	4	251.62	0.85	51	1-31.5
6	BH 57 SH 76 - 2804 LA -250	24-48	3.36	2.8	1.2	4.5	18.9	1.89	4	486.84	1.25	76	1-31.5
7	BH 57 SH 100 - 3004 LA -250	24-48	4.65	3	1.55	6.75	25	2.5	4	705.9	1.7	100	1-31.5
8	BH 60 SH 86 - 2804 LA -250	24-48	4.48	2.8	1.6	6.5	31	3.1	4	966.64	1.6	86	1-31.5
9	BH 86 SH 65 - 6004 LA -250	48-170	1.86	6	0.31	1.35	34	3.4	4	1470.8	2.2	65	1-31.5
10	BH 86 SH 80 - 5504 LA -250	48-170	2.31	5.5	0.42	2.8	46	4.6	4	2311.87	2.75	80	1-31.5
11	BH 86 SH 96 - 5504LA -250	48-170	2.7	5.5	0.5	3.5	70	7.0	4	2700	3.5	96	1-31.5
12	BH 86 SH 118 - 6004LA -250	48-170	2.52	6	0.42	4.25	87	8.7	4	3000	4.25	118	1-31.5

Please refer website www.bholanath.in for complete technical details.

1.8° High Torque Hybrid Captive Linear Actuator Ball Screw Stepper Motor

Ball screw Captive Linear Actuator Motors

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Ball screw Captive Linear Actuator Motors Details

Model No.	Motor Frame	Motor Length	MB-BS Length	FK-12	BS Length	Thread-Pitch	Mounting Hole	Mounting Distance	MB-BS Frame
	A	B	C	D	E	F	G	H	I
BH 60 SH 65 - 2804 LA-BS	60	65	78	10	300/600/1000	M16 X 05	Ø4.5	47.14	60
						M16 X 10			
						M16 X 16			
BH 60 SH 86 - 4004 LA-BS	60	86	78	10	300/600/1000	M16 X 05	Ø4.5	47.14	60
						M16 X 10			
						M16 X 16			
BH 86 SH 80 - 5504 LA-BS	86	80	88	15	300/600/1000	M20 X 05	Ø7	69.5	86
						M20 X 20			
BH 86 SH 96 - 5504 LA-BS	86	96	88	15	300/600/1000	M20 X 05	Ø7	69.5	86
						M20 X 20			
BH 86 SH 118 - 6004 LA-BS	86	118	101	22	300/600/1000	M25 X 05	Ø7	69.5	86
						M25 X 10			
						M25 X 25			
BH 86 SH 156 - 6004 LA-BS	86	156	101	22	300/600/1000	M25 X 05	Ø7	69.5	86
						M25 X 10			
						M25 X 25			
BH 86 SH 156 - 6204 LA-BS	86	156	101	27	300/600/1000	M32 X 05	Ø8.5	89	110
						M32 X 10			
						M32 X 32			
BH 110 SH 150 - 6204 LA-BS	110	150	101	27	300/600/1000	M32 X 05	Ø8.5	89	110
						M32 X 10			
						M32 X 32			
BH 110SH 201 - 8004 LA-BS	110	201	101	27	300/600/1000	M32 X 05	Ø8.5	89	110
						M32 X 10			
						M32 X 32			

Ball screw Nut Details

	A	B	C	D	E	F	G	H
10	50	Ø28	R24	6-Ø5.5-PCD38	40	M16 X 05	-	-
	57	Ø28	R24	6-Ø5.5-PCD38	40	M16 X 10	-	-
	23	Ø32	R26.5	4-Ø4.5-PCD42	34	M16 X 16	15	-
10	50	Ø28	R24	6-Ø5.5-PCD38	40	M16 X 05	-	-
	57	Ø28	R24	6-Ø5.5-PCD38	40	M16 X 10	-	-
	23	Ø32	R26.5	4-Ø4.5-PCD42	34	M16 X 16	15	-
10	51	Ø36	R29	6-Ø6.6-PCD47	44	M20 X 05	-	-
	35.5	Ø39	R31	4-Ø5.5-PCD50	41	M20 X 20	11.5	-
10	51	Ø36	R29	6-Ø6.6-PCD47	44	M20 X 05	-	-
	35.5	Ø39	R31	4-Ø5.5-PCD50	41	M20 X 20	11.5	-
10	51	Ø40	R31	6-Ø6.6-PCD51	48	M25 X 05	-	-
12	55	Ø40	R31	6-Ø6.6-PCD51	48	M25 X 10	-	-
12	44	Ø47	R37	4-Ø6.6-PCD60	49	M25 X 25	13	-
10	51	Ø40	R31	6-Ø6.6-PCD51	48	M25 X 05	-	-
12	55	Ø40	R31	6-Ø6.6-PCD51	48	M25 X 10	-	-
12	44	Ø47	R37	4-Ø6.6-PCD60	49	M25 X 25	13	-
12	52	Ø50	R40	6-Ø9-PCD65	62	M32 X 05	-	-
	90	Ø50	R40	6-Ø9-PCD65	62	M32 X 10	-	-
	55	Ø58	R40	4-Ø9-PCD74	60	M32 X 32	16	-
12	52	Ø50	R40	6-Ø9-PCD65	62	M32 X 05	-	-
	90	Ø50	R40	6-Ø9-PCD65	62	M32 X 10	-	-
	55	Ø58	R40	4-Ø9-PCD74	60	M32 X 32	16	-
12	52	Ø50	R40	6-Ø9-PCD65	62	M32 X 05	-	-
	90	Ø50	R40	6-Ø9-PCD65	62	M32 X 10	-	-
	55	Ø58	R40	4-Ø9-PCD74	60	M32 X 32	16	-

Ball Screw Length up to 2mtr/3mtr Available on Request

BALL SCREW SUPPORT UNIT- BF(FLOATED SIDE)

MODEL.NO.	J	K	L	M	N	O	P
BH 60 SH 65-2804 LA-BS	20	46	25	18	Ø10	Ø10.8	4-Ø5.5
BH 60 SH 86-4004 LA-BS	20	46	25	18	Ø10	Ø10.8	4-Ø5.5
BH 86 SH 80-5504 LA-BS	23	68	39	28	Ø17	Ø14	4-Ø6.6
BH 86 SH 96-5504 LA-BS	23	68	39	28	Ø17	Ø14	4-Ø6.6
BH 86 SH 118-6004 LA-BS	23	68	39	28	Ø17	Ø14	4-Ø6.6
BH 86 SH 156-6004 LA-BS	23	68	39	28	Ø17	Ø14	4-Ø6.6
BH 86 SH 156-6204 LA-BS	30	85	48	33	Ø25	Ø17.5	4-Ø9
BH 110 SH 150-6204 LA-BS	30	85	48	33	Ø25	Ø17.5	4-Ø9
BH 110 SH 201-8004 LA-BS	30	85	48	33	Ø25	Ø17.5	4-Ø9

Motor Specification

SR. No	Model No.	Ø D	Linear Step size	Feed Speed	Operating Voltage	Rated Voltage	Current Phase	Resistance Phase	Inductance Phase	Holding Torque	Holding Torque	No of Leads
			Pitch	Micron								
1		M16 X 05	25	1-125								
2	BH 60 SH 65 - 2804 LA-BS	M16 X 10	50	1-250	24-48	3.36	2.8	1.2	4.2	21	2.1	4
3		M16 X 16	80	1-400								
4		M16 X 05	25	1-125								
5	BH 60 SH 86 - 4004 LA-BS	M16 X 10	50	1-250	24-48	2.76	4.0	0.69	2.65	31	3.1	4
6		M16 X 16	80	1-400								
7		M20 X 05	25	1-125								
8	BH 86 SH 80 - 5504 LA-BS	M20 X 20	100	1-500	48-170	2.42	5.5	0.44	3.6	46	4.6	4
9		M20 X 05	25	1-125								
10	BH 86 SH 96 - 5504 LA-BS	M20 X 20	100	1-500	48-170	2.75	5.5	0.5	3.55	70	7.0	4
11		M25 X 05	25	1-125								
12	BH 86 SH 118 - 6004 LA-BS	M25 X 10	50	1-250	48-170	2.52	6.0	0.42	4.25	87	8.7	4
13		M25 X 25	125	1-625								
14		M25 X 05	25	1-125								
15	BH 86 SH 156 - 6004 LA-BS	M25 X 10	50	1-500	48-170	4.8	6.0	0.8	10.5	128	12.8	4
16		M25 X 25	125	1-625								
17		M32 X 05	25	1-125								
18	BH 86 SH 156 - 6204 LA-BS	M32 X 10	50	1-250	48-170	5.27	6.2	0.85	9.4	180	18.0	4
19		M32 X 32	160	1-800								
20		M32 X 05	25	1-125								
21	BH 110 SH 150 - 6204 LA-BS	M32 X 10	50	1-250	84-182	6.5	6.5	1	15.89	220	22.0	4
22		M32 X 32	160	1-800								
23		M32 X 05	25	1-125								
24	BH 110SH 201 - 8004 LA-BS	M32 X 10	50	1-250	84-182	5.84	8.0	0.73	14.01	300	30.0	4
25		M32 X 32	160	1-800								

1.8° High Torque Hybrid Non - Captive Linear Actuator Stepper Motor

Non - Captive Linear Actuator Motors

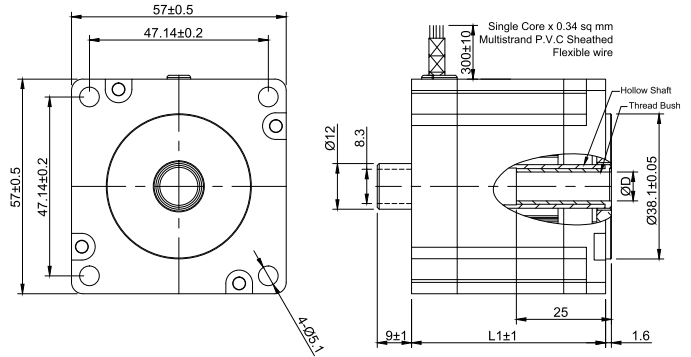
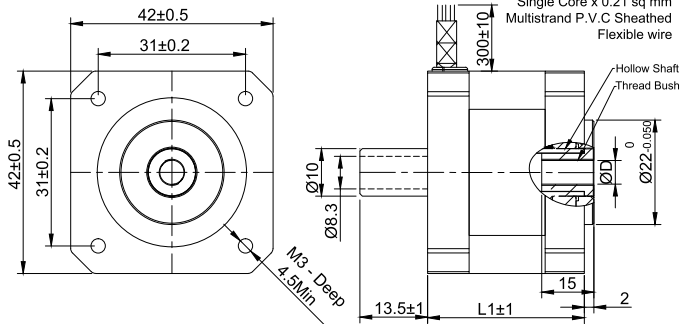
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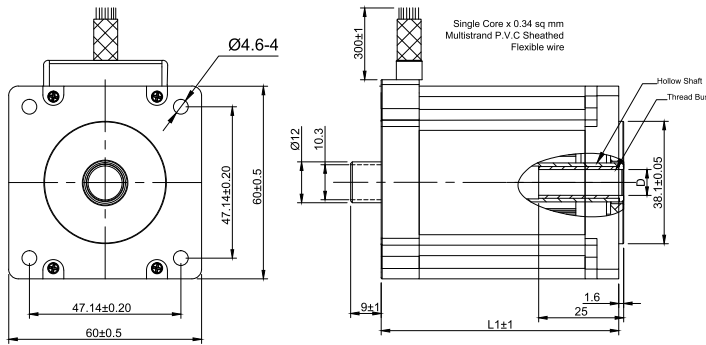
Drawing : Nema 17(42mm)



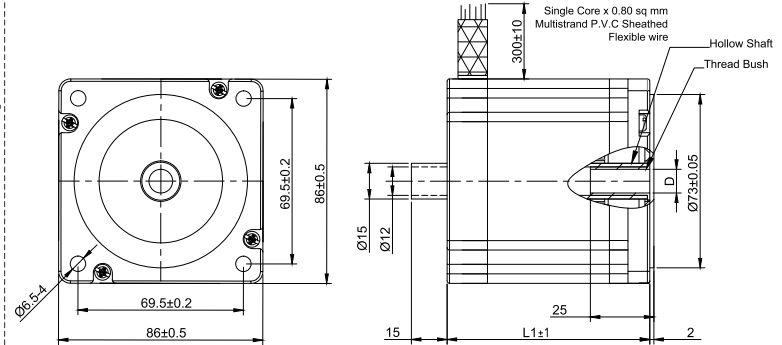
Drawing : Nema 23(57mm)



Drawing : Nema 24(60mm)



Drawing : Nema 34(86mm)

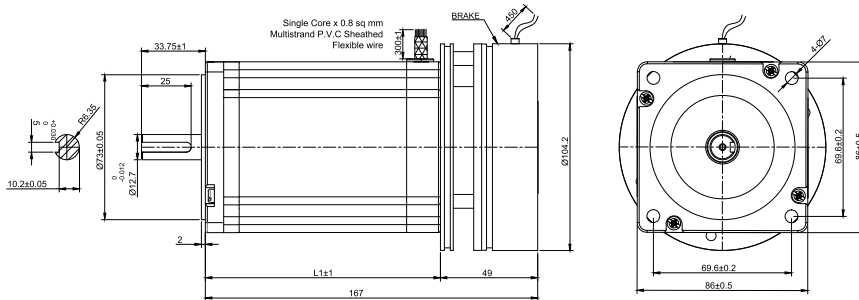
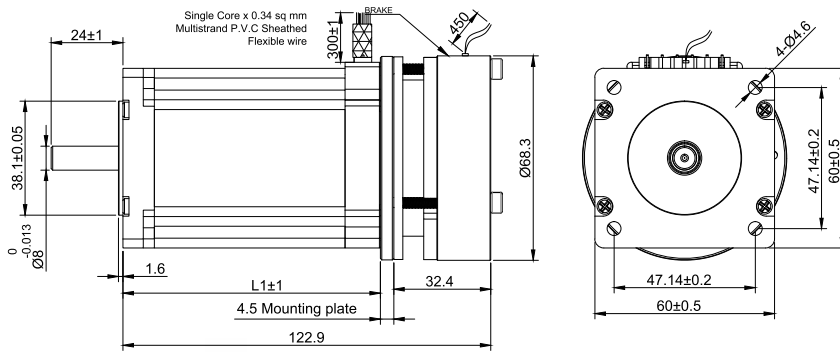
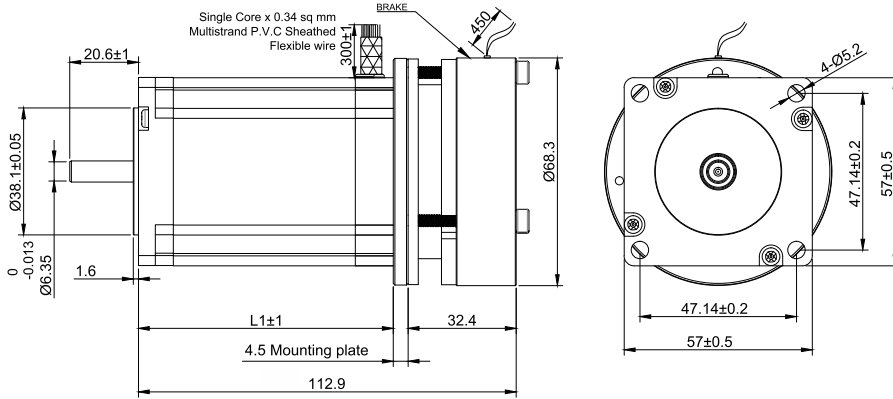
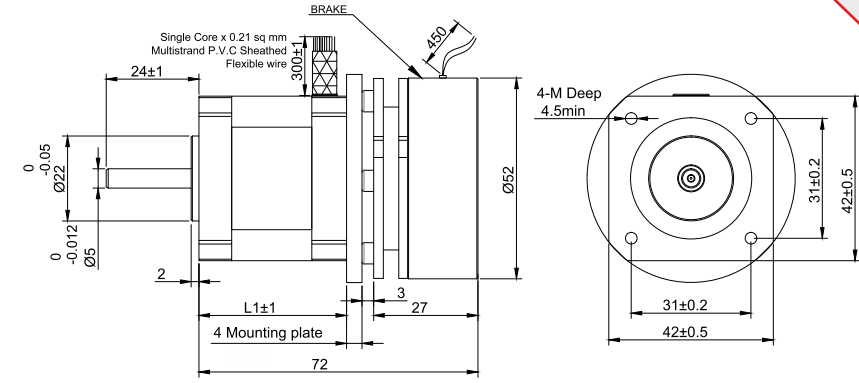


Bipolar Models

SR. No	Ø D	Linear Step size	Feed Speed	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Weight	L1
		Pitch	Micron											
1	M6 X 1	5	1-25		VDC	V	A	Ω	mH	Kgcm	Nm		Kg	mm
2	T6 X 2	10	1-50	BH 42 SH 33 - 1334 LA-NC	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	0.27	33
3	TR8 X 8	40	1-200											
4	M6 X 1	5	1-25											
5	T6 X 2	10	1-50	BH 42 SH 38 - 1684 LA-NC	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	0.38	38
6	TR8 X 8	40	1-200											
7	M6 X 1	5	1-25											
8	T6 X 2	10	1-50	BH 42 SH 47 - 1704 LA-NC	12-24	2.8	1.7	1.7	2.5	4.4	0.44	4	0.475	47
9	TR8 X 8	40	1-200											
10	M6 X 1	5	1-25											
11	T6 X 2	10	1-50	BH 42 SH 47 - 1504 LA-NC	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	0.475	47
12	TR8 X 8	40	1-200											
13	M6 X 1	5	1-25											
14	T6 X 2	10	1-50	BH 42 SH 60 - 0854 LA-NC	24-48	10.2	0.85	12	18	9	0.9	4	0.590	60
15	TR8 X 8	40	1-200											
16	M10 X 1.5	7.5	1-37.5											
17	M10 X 2	10	1-50	BH 57 SH 51 - 2804 LA-NC	24-48	2.46	2.8	0.88	2.2	10.1	1.01	4	0.850	51
18	TR8 X 8	40	1-200											
19	M10 X 1.5	7.5	1-37.5											
20	M10 X 2	10	1-50	BH 57 SH 76 - 2804 LA-NC	24-48	3.36	2.8	1.2	4.5	18.9	1.89	4	1.250	76
21	TR8 X 8	40	1-200											
22	M10 X 1.5	7.5	1-37.5											
23	M10 X 2	10	1-50	BH 60 SH 86 - 4004 LA-NC	24-48	2.78	4	0.69	2.65	31	3.1	4	1.40	86
24	TR8 X 8	40	1-200											
25	M10 X 2	10	1-50											
26	M14 X 2	10	1-50	BH 86 SH 96 - 5504 LA-NC	48-170	2.7	5.5	0.5	3.5	70	7.0	4	3.50	96
27	M10 X 2	10	1-50											
28	M14 X 2	10	1-50	BH 86 SH 118 - 6004 LA-NC	48-170	2.7	6	0.45	4.25	87	8.7	4	4.25	118

Please refer website www.bholanath.in for complete technical details.

1.8° High Torque Hybrid Brake Stepper Motor



Bipolar Models

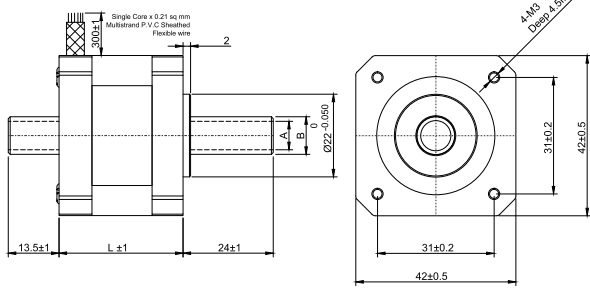
SR. No	Model No.	Operating Voltage	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Brake Torque	Brake Watts	Brake Voltage	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	Nm	W	V	mm	Rev/min
1	BH 42 SH 38 - 1684 BRK	12 - 24	3.53	1.68	2.1	1.80	3.6	0.36	4	54	0.570	1	7.21	24 VDC	38	1-1500
2	BH 42 SH 47 - 1704 BRK	12 - 24	2.80	1.70	1.70	2.50	4.4	0.44	4	68	0.670	1	7.21	24 VDC	47	1-1500
3	BH 42 SH 47 - 1504 BRK	12 - 24	4.20	1.50	2.80	5.70	5.5	0.55	4	68	0.670	1	7.21	24 VDC	47	1-1500
4	BH 42 SH 60 - 0854 BRK	12 - 24	10.2	0.85	12.0	18.0	9.0	0.9	4	102	0.787	1	7.21	24 VDC	60	1-1500
5	BH 57 SH 56 - 2804 BRK	12 - 24	2.8	2.8	1.01	2.5	12.6	1.26	4	300	1.320	3	9.34	24 VDC	56	1-1500
6	BH 57 SH 76 - 2804 BRK	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.600	3	9.34	24 VDC	76	1-1500
7	BH 57 SH 100 - 3004 BRK	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	2.100	3	9.34	24 VDC	100	1-1500
8	BH 60 SH 86 - 2804 BRK	24 - 48	4.76	2.8	1.6	6.5	31	3.1	4	840	2.05	3	9.34	24 VDC	86	1-1500
9	BH 86 SH 65 - 4004 BRK	48 - 170	1.86	4	0.47	2.8	34	3.4	4	1000	3.100	5	21.2	24 VDC	65	1-1500
10	BH 86 SH 80 - 5504 BRK	48 - 170	2.31	5.5	0.42	2.8	46	4.6	4	1400	3.95	5	21.2	24 VDC	80	1-1500
11	BH 86 SH 96 - 4004 BRK	48 - 170	3.8	4	0.95	6.8	68	6.8	4	2700	5.2	10	19.8	24 VDC	96	1-1500
12	BH 86 SH 118 - 6004 BRK	48 - 170	2.52	6	0.42	4.25	87	8.7	4	2700	6.2	10	19.8	24 VDC	118	1-1500
13	BH 86 SH 156 - 6004 BRK	48 - 170	4.8	6	0.80	7.02	128	12.8	4	4000	7.800	10	19.8	24 VDC	156	1-1500

1.8° High Torque Hollow shaft Stepper Motor

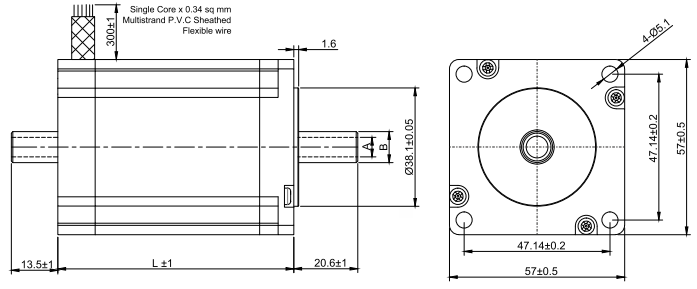
Hollow Shaft Stepper Motors

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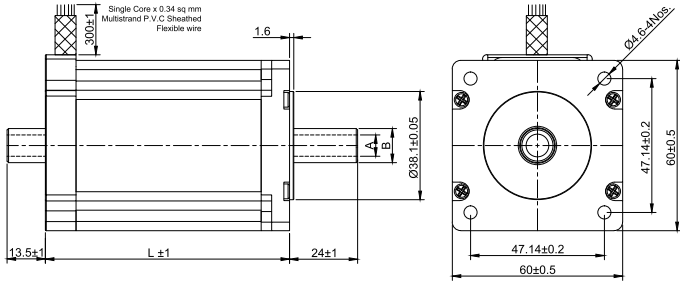
Drawing : Nema 17(mm)



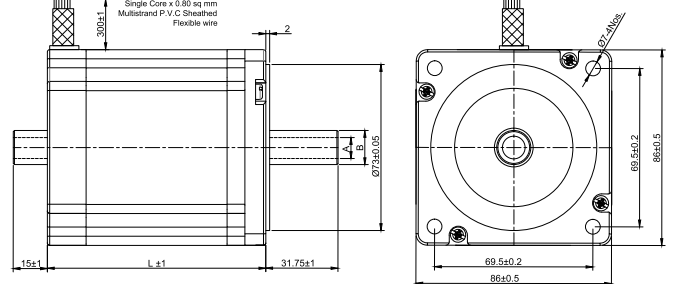
Drawing : Nema 23(57mm)



Drawing : Nema 24(mm)



Drawing : Nema 34(mm)

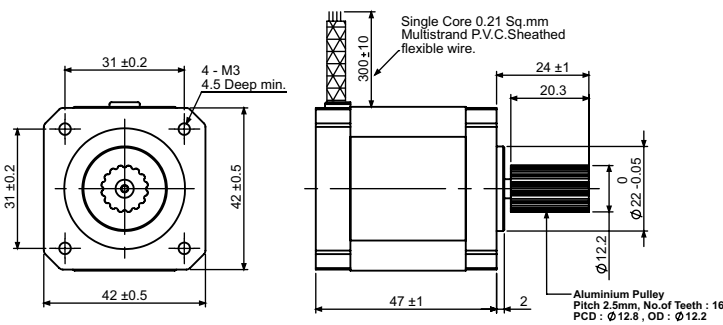


Bipolar Models

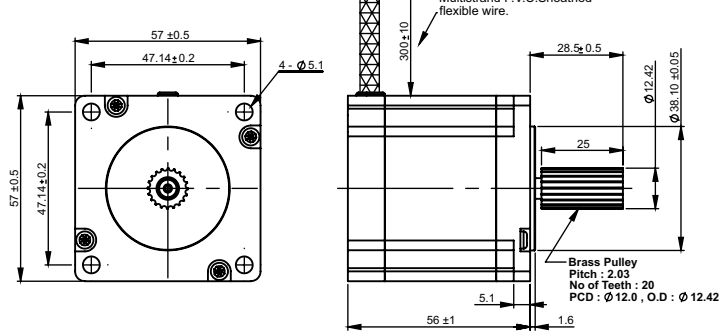
SR. No	Model No.	Operating Voltage	Rated Voltage	Current Phase	Resistance Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor Inertia	Weight	Length	Shaft ID X OD mm	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	L	A B	Rev/min
1	BH 42 SH 33 - 1334 HS	12 - 24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33	Ø2.5 Ø5	1-1500
2	BH 42 SH 38 - 1684 HS	12 - 24	3.53	1.68	2.1	1.80	3.6	0.36	4	54	0.38	38	Ø8.3 Ø10	1-1500
3	BH 57 SH 51 - 2804 HS	12 - 24	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	Ø10.3 Ø12	1-1500
4	BH 57 SH 56 - 2004 HS	12 - 24	3.6	2	1.8	4.1	12.6	1.26	4	300	0.75	56	Ø3.4 Ø6.35	1-1500
5	BH 60 SH 86 - 4004 HS	24 - 48	2.76	4	0.69	2.69	31	3.1	4	840	1.4	86	Ø8 Ø12	1-1500
6	BH 86 SH 80 - 5504 HS	48 - 170	2.42	5.5	0.44	3.6	46	4.6	4	1400	2.5	80	Ø12 Ø15	1-1500
7	BH 86 SH 96 - 5504 HS	48 - 170	2.75	5.5	0.5	3.55	70	7.0	4	2700	3.1	96	Ø12 Ø15	1-1500
8	BH 86 SH 118 - 6004 HS	48 - 170	2.52	6	0.42	4.25	87	8.7	4	2700	4	118	Ø12 Ø15	1-1500

1.8° High Torque Stepper Motors with Timing Pulley

Timing Pulley with Stepper Motors



Nema 17 (42mm)



Nema 23 (57mm)

(All Dimensions are in mm)



Bipolar Models

Nema 17(42mm)

Nema 23(57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Length	RPM
	With Timing Pulley	VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 47 - 1004 A	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
2	BH 57 SH 56 - 2004 A	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	1-1500

Please refer website www.bholanath.in for complete technical details.



PROTECTION AGAINST CONTACT AND INFILTRATION OF WATER AND DIRT

IP 65 STEPPER MOTORS

The first two letters IP stands for - Ingress Protection Rating.

The Number 6 stands for - Totally protected against dust infiltration.

The Number 5 stands for - Protection against low pressure water jets from any direction.

Bholanath IP 65 motors can be used in all outdoor applications like Solar tracking panels, Water fountains, Outdoor conveyer belts, Humid conditions, Machines which are exposed to coolants and water, bottle filling machines, liquid dispensing machines etc. Bholanath IP 65 motors are available in Nema 17, 23, 24, and 34 frame sizes.

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 A - IP65	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33	1-1500
2	BH 42 SH 33 - 0404 A - IP65	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	33	1-1500
3	BH 42 SH 38 - 1684 A - IP65	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	38	1-1500
4	BH 42 SH 40 - 1204 A - IP65	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	40	1-1500
5	BH 42 SH 40 - 1704 A - IP 65	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	40	1-1500
6	BH 42 SH 47 - 1004 A -IP 65	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
7	BH 42 SH 47 - 1704 A -IP 65	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47	1-1500
8	BH 42 SH 47 - 1504 A -IP 65	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47	1-1500
9	BH 42 SH 60 - 0854 A -IP 65	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	60	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 41 - 2804 A -IP 65	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	6.35	6.35	1-1500
11	BH 57 SH 51 - 2804 A -IP 65	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A -IP 65	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 56 - 2804 A -IP 65	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
14	BH 57 SH 76 - 2804 A -IP 65	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	76	6.35	6.35	1-1500
15	BH 57 SH 81 - 2804 A -IP 65	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
16	BH 57 SH 81 - 4004 A -IP 65	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
17	BH 57 SH 100 - 3004 A -IP 65	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 65 - 2804 A -IP 65	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65	1-1500
19	BH 60 SH 86 - 2804 A -IP 65	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 65 - 4104 AKS -IP 65	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65	1-1500
21	BH 86 SH 65 - 2004 AKS -IP 65	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	65	1-1500
22	BH 86 SH 65 - 6004 AKS -IP 65	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65	1-1500
23	BH 86 SH 80 - 2004 AKS -IP 65	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80	1-1500
24	BH 86 SH 80 - 4104 AKS -IP 65	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80	1-1500
25	BH 86 SH 80 - 5504 AKS -IP 65	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	80	1-1500
26	BH 86 SH 96 - 2004 AKS -IP 65	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96	1-1500
27	BH 86 SH 96 - 4004 AKS -IP 65	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96	1-1500
28	BH 86 SH 96 - 5504 AKS -IP 65	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	96	1-1500
29	BH 86 SH 118 - 4004 AKS -IP 65	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	118	1-1500
30	BH 86 SH 118 - 6004 AKS -IP 65	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	118	1-1500
31	BH 86 SH 156 - 6004 AKS -IP 65	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	156	1-1500
32	BH 86 SH 156 - 6204 AKS -IP 65	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	156	1-1500

BHOLANATH IP - 68 MOTORS

IP 68
Stepper Motors

Bholanath®

Committed to precision
www.bholanath.in



PROTECTED FROM TOTAL DUST INGRESS & PROTECTED FROM LONG TERM IMMERSION UP TO A SPECIFIED PRESSURE

IP 68 STEPPER MOTORS

The first two letters IP stands for - Ingress Protection Rating.

The Number 6 stands for - Totally protected against dust infiltration.

The Number 8 stands for - Protection against immersion in water (Bholanath IP 68 motors are certified upto 10 mtrs[1bar Pressure] submerged in water.)

Bholanath IP 68 motors can be used in all submersible applications, pump applications, submerged valve operating applications, under water machinery and general applications. Bholanath IP 68 motors are available in Nema 17, 23, 24, and 34 frame sizes.

Nema 17 (42mm)

	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 50 - 1334 A - IP68	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	50	1-1500
2	BH 42 SH 50 - 0404 A - IP68	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	50	1-1500
3	BH 42 SH 55 - 1684 A - IP68	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	55	1-1500
4	BH 42 SH 57 - 1204 A - IP68	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	57	1-1500
5	BH 42 SH 57 - 1704 A - IP68	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	57	1-1500
6	BH 42 SH 64 - 1004 A - IP68	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	64	1-1500
7	BH 42 SH 64 - 1704 A - IP68	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	64	1-1500
8	BH 42 SH 64 - 1504 A - IP68	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	64	1-1500
9	BH 42 SH 77 - 0854 A - IP68	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	77	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 56 - 2804 A - IP68	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	56	6.35	6.35	1-1500
11	BH 57 SH 66 - 2804 A - IP68	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	66	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A - IP68	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 71 - 2804 A - IP68	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	71	6.35	6.35	1-1500
14	BH 57 SH 91 - 2804 A - IP68	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	91	6.35	6.35	1-1500
15	BH 57 SH 97 - 2804 A - IP68	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	97	8.00	8.00	1-1500
16	BH 57 SH 97 - 4004 A - IP68	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	97	8.00	8.00	1-1500
17	BH 57 SH 115 - 3004 A - IP68	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	115	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 83 - 2804 A - IP68	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	83	1-1500
19	BH 60 SH 104 - 2804 A - IP68	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	104	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 92 - 4104 AKS - IP68	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	92	1-1500
21	BH 86 SH 92 - 2004 AKS - IP68	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	92	1-1500
22	BH 86 SH 92 - 6004 AKS - IP68	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	92	1-1500
23	BH 86 SH 107 - 2004 AKS - IP68	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	107	1-1500
24	BH 86 SH 107 - 4104 AKS - IP68	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	107	1-1500
25	BH 86 SH 107 - 5504 AKS - IP68	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	107	1-1500
26	BH 86 SH 123 - 2004 AKS - IP68	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	123	1-1500
27	BH 86 SH 123 - 4004 AKS - IP68	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	123	1-1500
28	BH 86 SH 123 - 5504 AKS - IP68	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	123	1-1500
29	BH 86 SH 145 - 4004 AKS - IP68	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	145	1-1500
30	BH 86 SH 145 - 6004 AKS - IP68	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	145	1-1500
31	BH 86 SH 183 - 6004 AKS - IP68	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	183	1-1500
32	BH 86 SH 183 - 6204 AKS - IP68	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	183	1-1500

Please refer website www.bholanath.in for complete technical details.



Since motor generate own heat, the maximum recommended ambient operating temperature is 120°C.

(Case temperature up to + 155°C)

Tested for continuously operating at ambient temperature of 120°C for five hours. Stepper motor are available for ambient temperature of 80°C, 100°C & 120°C

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 A - HT	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33	1-1500
2	BH 42 SH 33 - 0404 A - HT	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	33	1-1500
3	BH 42 SH 38 - 1684 A - HT	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	38	1-1500
4	BH 42 SH 40 - 1204 A - HT	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	40	1-1500
5	BH 42 SH 40 - 1704 A - HT	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	40	1-1500
6	BH 42 SH 47 - 1004 A - HT	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
7	BH 42 SH 47 - 1704 A - HT	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47	1-1500
8	BH 42 SH 47 - 1504 A - HT	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47	1-1500
9	BH 42 SH 60 - 0854 A - HT	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	60	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 41 - 2804 A - HT	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	6.35	6.35	1-1500
11	BH 57 SH 51 - 2804 A - HT	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A - HT	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 56 - 2804 A - HT	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
14	BH 57 SH 76 - 2804 A - HT	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	76	6.35	6.35	1-1500
15	BH 57 SH 81 - 2804 A - HT	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
16	BH 57 SH 81 - 4004 A - HT	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
17	BH 57 SH 100 - 3004 A - HT	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 65 - 2804 A - HT	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65	1-1500
19	BH 60 SH 86 - 2804 A - HT	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 65 - 4104 AKS - HT	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65	1-1500
21	BH 86 SH 65 - 2004 AKS - HT	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	65	1-1500
22	BH 86 SH 65 - 6004 AKS - HT	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65	1-1500
23	BH 86 SH 80 - 2004 AKS - HT	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80	1-1500
24	BH 86 SH 80 - 4104 AKS - HT	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80	1-1500
25	BH 86 SH 80 - 5504 AKS - HT	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	80	1-1500
26	BH 86 SH 96 - 2004 AKS - HT	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96	1-1500
27	BH 86 SH 96 - 4004 AKS - HT	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96	1-1500
28	BH 86 SH 96 - 5504 AKS - HT	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	96	1-1500
29	BH 86 SH 118 - 4004 AKS - HT	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	118	1-1500
30	BH 86 SH 118 - 6004 AKS - HT	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	118	1-1500
31	BH 86 SH 156 - 6004 AKS - HT	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	156	1-1500
32	BH 86 SH 156 - 6204 AKS - HT	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	156	1-1500



Bholanath Sub Zero (SZ) motors are designed to withstand very cold temperatures up to -40 deg Celsius (minus 40). The motors are specifically made so that in freezing temperatures stepper motors will work exactly as per controller commands.

These are available in Nema 17, Nema 23 , Nema 24 and Nema 34 models

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 50 - 1334 A - SZ	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	50	1-1500
2	BH 42 SH 50 - 0404 A - SZ	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	50	1-1500
3	BH 42 SH 55 - 1684 A - SZ	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	55	1-1500
4	BH 42 SH 57 - 1204 A - SZ	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	57	1-1500
5	BH 42 SH 57 - 1704 A - SZ	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	57	1-1500
6	BH 42 SH 64 - 1004 A - SZ	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	64	1-1500
7	BH 42 SH 64 - 1704 A - SZ	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	64	1-1500
8	BH 42 SH 64 - 1504 A - SZ	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	64	1-1500
9	BH 42 SH 77 - 0854 A - SZ	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	77	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 56 - 2804 A - SZ	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	56	6.35	6.35	1-1500
11	BH 57 SH 66 - 2804 A - SZ	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	66	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A - SZ	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 71 - 2804 A - SZ	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	71	6.35	6.35	1-1500
14	BH 57 SH 91 - 2804 A - SZ	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	91	6.35	6.35	1-1500
15	BH 57 SH 97 - 2804 A - SZ	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	97	8.00	8.00	1-1500
16	BH 57 SH 97 - 4004 A - SZ	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	97	8.00	8.00	1-1500
17	BH 57 SH 115 - 3004 A - SZ	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	115	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 83 - 2804 A - SZ	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	83	1-1500
19	BH 60 SH 104 - 2804 A - SZ	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	104	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 92 - 4104 AKS - SZ	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	92	1-1500
21	BH 86 SH 92 - 2004 AKS - SZ	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	92	1-1500
22	BH 86 SH 92 - 6004 AKS - SZ	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	92	1-1500
23	BH 86 SH 107 - 2004 AKS - SZ	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	107	1-1500
24	BH 86 SH 107 - 4104 AKS - SZ	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	107	1-1500
25	BH 86 SH 107 - 5504 AKS - SZ	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	107	1-1500
26	BH 86 SH 123 - 2004 AKS - SZ	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	123	1-1500
27	BH 86 SH 123 - 4004 AKS - SZ	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	123	1-1500
28	BH 86 SH 123 - 5504 AKS - SZ	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	123	1-1500
29	BH 86 SH 145 - 4004 AKS - SZ	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	145	1-1500
30	BH 86 SH 145 - 6004 AKS - SZ	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	145	1-1500
31	BH 86 SH 183 - 6004 AKS - SZ	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	183	1-1500
32	BH 86 SH 183 - 6204 AKS - SZ	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	183	1-1500

Please refer website www.bholanath.in for complete technical details.



BHOLANATH FLP motors can contain any explosion originating within its housing and prevent sparks from within its housing from igniting vapours, gases, dust, or fibres in the air surrounding it.

BHOLANATH FLP Motors are available in class 1, zone 1, group A, B & C **CERTIFICATIONS** – CCOE (PESO), CMRI

INDUSTRIAL APPLICATIONS -- Coal Mines, Petro Chemicals & Chemicals, Oil Mines & Rigs, Fertilizers, Saw Mills, Solvent extraction plants, Paints & Varnish Industry, LPG Bottling plants, Agro Chemicals, Drugs & Pharmaceuticals & General Industry.

Bholanath FLP motors are available in Nema 17,23,24 and 34 frame sizes.

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 54 - 1204 A - FLP	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	54	1-1500
2	BH 42 SH 54 - 1704 A - FLP	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	54	1-1500
3	BH 42 SH 61 - 1004 A - FLP	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	61	1-1500
4	BH 42 SH 61 - 1704 A - FLP	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	61	1-1500
5	BH 42 SH 61- 1504 A - FLP	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	61	1-1500
6	BH 42 SH 65 - 1504 A - FLP	12 - 24	4.86	1.5	3.2	6	7.0	0.7	4	84	0.410	65	1-1500
7	BH 42 SH 74 - 0854 A - FLP	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	74	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
8	BH 57 SH 84 - 2804 A - FLP	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	84	6.35	6.35	1-1500
9	BH 57 SH 90 - 2004 A - FLP	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	84	6.35	6.35	1-1500
10	BH 57 SH 90 - 2804 A - FLP	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	90	6.35	6.35	1-1500
11	BH 57 SH 110 - 2804 A - FLP	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	110	6.35	6.35	1-1500
12	BH 57 SH 115 - 2804 A - FLP	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	115	8.00	8.00	1-1500
13	BH 57 SH 115 - 4004 A - FLP	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	115	8.00	8.00	1-1500
14	BH 57 SH 133 - 3004 A - FLP	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	133	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
15	BH 60 SH 100 - 2804 A - FLP	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	100	1-1500
16	BH 60 SH 115 - 2804 A - FLP	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	115	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
17	BH 86 SH 84 - 4104 AKS - FLP	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	84	1-1500
18	BH 86 SH 84 - 2004 AKS - FLP	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	84	1-1500
19	BH 86 SH 84 - 6004 AKS - FLP	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	84	1-1500
20	BH 86 SH 99 - 2004 AKS - FLP	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	99	1-1500
21	BH 86 SH 99 - 4104 AKS - FLP	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	99	1-1500
22	BH 86 SH 99 - 5504 AKS - FLP	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	99	1-1500
23	BH 86 SH 115 - 2004 AKS - FLP	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	115	1-1500
24	BH 86 SH 115 - 4004 AKS - FLP	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	115	1-1500
25	BH 86 SH 115 - 5504 AKS - FLP	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	115	1-1500
26	BH 86 SH 137 - 4004 AKS - FLP	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	137	1-1500
27	BH 86 SH 137 - 6004 AKS - FLP	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	137	1-1500
28	BH 86 SH 175 - 6004 AKS - FLP	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	175	1-1500
29	BH 86 SH 175 - 6204 AKS - FLP	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	175	1-1500



BHOLANATH CE Mark Indicates conformity with health, safety and environmental protection standard as per European union directive.

EMC for no electromagnetic interference to near by moving and fixed installations & electromagnet fields.

CE CERTIFICATION. No:- CE/07533/0818
UNDER THE PROVISION :- LVD 2014/35/EU
EMC 2014/30/EU

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 A - CE	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33	1-1500
2	BH 42 SH 33 - 0404 A - CE	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	33	1-1500
3	BH 42 SH 38 - 1684 A - CE	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	38	1-1500
4	BH 42 SH 40 - 1204 A - CE	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	40	1-1500
5	BH 42 SH 40 - 1704 A - CE	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	40	1-1500
6	BH 42 SH 47 - 1004 A - CE	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
7	BH 42 SH 47 - 1704 A - CE	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47	1-1500
8	BH 42 SH 47 - 1504 A - CE	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47	1-1500
9	BH 42 SH 60 - 0854 A - CE	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	60	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 41 - 2804 A - CE	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	6.35	6.35	1-1500
11	BH 57 SH 51 - 2804 A - CE	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A - CE	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 56 - 2804 A - CE	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
14	BH 57 SH 76 - 2804 A - CE	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	76	6.35	6.35	1-1500
15	BH 57 SH 81 - 2804 A - CE	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
16	BH 57 SH 81 - 4004 A - CE	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
17	BH 57 SH 100 - 3004 A - CE	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 65 - 2804 A - CE	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65	1-1500
19	BH 60 SH 86 - 2804 A - CE	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86	1-1500

Nema 34 (86mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 65 - 4104 AKS - CE	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65	1-1500
21	BH 86 SH 65 - 2004 AKS - CE	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	65	1-1500
22	BH 86 SH 65 - 6004 AKS - CE	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65	1-1500
23	BH 86 SH 80 - 2004 AKS - CE	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80	1-1500
24	BH 86 SH 80 - 4104 AKS - CE	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80	1-1500
25	BH 86 SH 80 - 5504 AKS - CE	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	80	1-1500
26	BH 86 SH 96 - 2004 AKS - CE	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96	1-1500
27	BH 86 SH 96 - 4004 AKS - CE	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96	1-1500
28	BH 86 SH 96 - 5504 AKS - CE	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	96	1-1500
29	BH 86 SH 118 - 4004 AKS - CE	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	118	1-1500
30	BH 86 SH 118 - 6004 AKS - CE	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	118	1-1500
31	BH 86 SH 156 - 6004 AKS - CE	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	156	1-1500
32	BH 86 SH 156 - 6204 AKS - CE	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	156	1-1500

Please refer website www.bholanath.in for complete technical details.



Bholanath Integrated drive motors are Motors with in built drives. These motors are helpful as additional driver and subsequent wiring is saved, also the problems of electronic sound is avoided because of no wiring.

The control inputs available are in Pulse and Modbus mode. The micro stepping is factory set at 800 pulses per revolution to get optimum results and current is factory set as per the motor amperage. Micro stepping can be set from full step (200 Pulses per revolution) to one sixteenth step (3200 Pulses per revolution) on demand. The voltage input is from 24 volts to 72 volts DC.

Available in Nema 17,Nema 23, Nema 24 and Nema 34 models.

Nema 17 (42mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
1	BH 42 SH 33 - 1334 A - I	12-24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33	1-1500
2	BH 42 SH 33 - 0404 A - I	12-24	12	0.4	30	22	2.6	0.26	4	35	0.22	33	1-1500
3	BH 42 SH 38 - 1684 A - I	12-24	3.53	1.68	2.1	1.8	3.6	0.36	4	54	0.27	38	1-1500
4	BH 42 SH 40 - 1204 A - I	12-24	3.36	1.2	2.86	4.65	4.0	0.4	4	68	0.360	40	1-1500
5	BH 42 SH 40 - 1704 A - I	12-24	2.72	1.7	1.6	2.3	4.5	0.45	4	68	0.360	40	1-1500
6	BH 42 SH 47 - 1004 A - I	12-24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47	1-1500
7	BH 42 SH 47 - 1704 A - I	12-24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47	1-1500
8	BH 42 SH 47 - 1504 A - I	12-24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47	1-1500
9	BH 42 SH 60 - 0854 A - I	24 - 48	10.2	0.85	12	18	9	0.9	4	102	0.487	60	1-1500

Nema 23 (57mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	Ø D	Ø D1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm			Rev/min
10	BH 57 SH 41 - 2804 A - I	24 - 48	2.66	2.8	0.95	1.8	5.5	0.55	4	120	0.45	41	6.35	6.35	1-1500
11	BH 57 SH 51 - 2804 A - I	24 - 48	2.46	2.8	0.88	2.2	10.1	1.01	4	275	0.65	51	6.35	6.35	1-1500
12	BH 57 SH 56 - 2004 A - I	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
13	BH 57 SH 56 - 2804 A - I	24 - 48	2.8	2.8	1.01	2.5	12.6	1.26	4	300	0.72	56	6.35	6.35	1-1500
14	BH 57 SH 76 - 2804 A - I	24 - 48	3.36	2.8	1.2	4.5	18.9	1.89	4	480	1.05	76	6.35	6.35	1-1500
15	BH 57 SH 81 - 2804 A - I	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
16	BH 57 SH 81 - 4004 A - I	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	81	8.00	8.00	1-1500
17	BH 57 SH 100 - 3004 A - I	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100	10.0	10.0	1-1500

Nema 24 (60mm)

SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
18	BH 60 SH 65 - 2804 A - I	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65	1-1500
19	BH 60 SH 86 - 2804 A - I	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86	1-1500

Nema 34 (86mm)

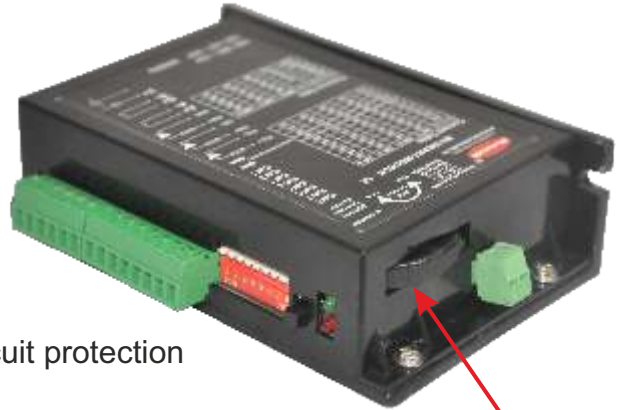
SR. No	Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	L1	RPM
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm	Rev/min
20	BH 86 SH 65 - 4104 AKS - I	48 - 170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65	1-1500
21	BH 86 SH 65 - 2004 AKS - I	48 - 170	2.501	4.1	0.61	3.4	27.4	2.74	4	1000	1.85	65	1-1500
22	BH 86 SH 65 - 6004 AKS - I	48 - 170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65	1-1500
23	BH 86 SH 80 - 2004 AKS - I	48 - 170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80	1-1500
24	BH 86 SH 80 - 4104 AKS - I	48 - 170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80	1-1500
25	BH 86 SH 80 - 5504 AKS - I	48 - 170	2.42	5.5	0.44	3.6	50.9	5.09	4	1400	2.5	80	1-1500
26	BH 86 SH 96 - 2004 AKS - I	48 - 170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96	1-1500
27	BH 86 SH 96 - 4004 AKS - I	48 - 170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96	1-1500
28	BH 86 SH 96 - 5504 AKS - I	48 - 170	2.75	5.5	0.5	3.55	74.4	7.44	4	2700	3.1	96	1-1500
29	BH 86 SH 118 - 4004 AKS - I	48 - 170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4.0	118	1-1500
30	BH 86 SH 118 - 6004 AKS - I	48 - 170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4.0	118	1-1500
31	BH 86 SH 156 - 6004 AKS - I	48 - 170	4.8	6	0.8	7.02	133	13.3	4	4000	5.5	156	1-1500
32	BH 86 SH 156 - 6204 AKS - I	48 - 170	5.27	6.2	0.85	9.4	175.5	17.55	4	5500	5.5	156	1-1500

High Performance Smart Stepper Motor Drives with Controller

These are state of art drive with latest technologies which gives low noise and low losses. Pure sinusoidal current input due to which bholanath smart drives give 20% more torque and run very smoothly **Bholanath** smart driver with inbuilt controller interface rotary switch which makes it easily programmable on field. These smart driver are equipped with start / stop switch , direction change switch and RPM/ speed control knob by which stepper motors can be easily programed No external controller or PLC is required.

Features

- > High performance, cost-effective
- > Suitable for 2-phase and 4-phase motors
- > Support PUL/DIR and CW/CCW modes
- > Direction switch
- > Low temperature rise, smooth motion
- > Pulses Response Frequency Can Reach 200KHz
- > RPM & DIRECTION controller.
- > Start/stop switch
- > Short-voltage, over-voltage, over-current and short-circuit protection



Inbuilt RPM & Direction Controller

Applications

Suitable for a wide range of stepping motors, from NEMA size 17 to 42. It can be used in various kinds of machines, such as X-Y tables. And a variety of large-scale automation equipments and instruments. For example: labeling machine, cutting machine, packaging machine, plotter, engraving machine, CNC machine tools and so on. It always performs well when applied for equipment which requires for low-vibration, low-noise, high-precision and high-velocity.



BH - SMART - 2A



BH - SMART - 4.5A



BH - SMART - 6A

SR. No	Drive Model	Type	Resolution	Power Supply	Current Range	Specifications
1	BH - SMART - 2A	High Performance 2 A Microstepping Bipolar Drive plus Controller	1 - 1/16	Supply Voltage 10 VDC to 45 VDC	Output current 0.25 A - 2 A	Microstepping : 1 , 1/2 ,1/4, 1/8, 1/16 Dimensions : 96mm x 63mm x 31mm. Weight : = 140 g.
2	BH - SMART - 4.5A	High Performance 4.5 A Microstepping Bipolar Drive plus Controller	1 - 1/16	Supply Voltage 20 VDC to 80 VDC or 15 TO 55 VAC, 50/60Hz	Output current 0.5 A - 4.5 A	Microstepping : 1 , 1/2 ,1/4, 1/8, 1/16 Dimensions : 122mm x 78mm x 35mm. Weight : = 255 g.
3	BH - SMART - 6A	High Performance 6. A Microstepping Bipolar Drive plus Controller	1 - 1/16	Supply Voltage 20 VDC to 80 VDC or 15 TO 55 VAC, 50/60Hz	Output current 1.0 A - 6 A	Microstepping : 1 , 1/2 ,1/4, 1/8, 1/16 Dimensions : 122mm x 78mm x 35mm. Weight : = 255 g.

High Performance Smart Modbus Stepper Motor Drives with Controller

Bholanath smart modbus stepper driver comes with standalone or controller interface . Fast commutation, fast decay & auto micro step reduction with increase in speed & torque Modbus RTU STANDALONE listen to RTU master at various programmable baud rate and device ID'S. 247 No of devices can share one modbus line.

Features

- > High performance, cost-effective
- > Suitable for 2-phase and 4-phase motors
- > Support PUL/DIR and CW/CCW modes
- > Low temperature rise, smooth motion
- > Pulses Response Frequency Can Reach 200KHz
- > Modbus communication
- > RPM & DIRECTION Controller.
- > Start/stop switch
- > Baud Rate up to 128000 bits/sec
- > Short-voltage, over-voltage, over-current and short-circuit protection



Inbuilt
RPM & Direction
Controller

Applications

Suitable for a wide range of stepping motors, from NEMA size 17 to 42. It can be used in various kinds of machines, such as X-Y tables. And a variety of large-scale automation equipments and instruments. For example: labeling machine, cutting machine, packaging machine, plotter, engraving machine, CNC machine tools and so on. It always performs well when applied for equipment which requires for low-vibration, low-noise, high-precision and high-velocity.



BH - SMART- MODBUS - 2A



BH - SMART- MODBUS - 4.5A



BH - SMART- MODBUS - 6A

SR. No	Drive Model	Type	Resolution	Power Supply	Current Rang	Specifications
1	BH - SMART- MODBUS - 2A	HighPerformance 2A MicrosteppingBipolar ModbusDriveplusController	1 - 1/16	Supply Voltage 10 VDC to 45 VDC	Output current 0.25 A - 2 A	Microstepping : 1, 1/2, 1/4, 1/8, 1/16 Dimensions : 96mm x 63mm x 31mm. Weight : = 140 g.
2	BH - SMART- MODBUS - 4.5A	HighPerformance 4.5A MicrosteppingBipolar ModbusDriveplusController	1 - 1/16	Supply Voltage 20 VDC to 80 VDC or 15 TO 55 VAC, 50/60Hz	Output current 0.5 A - 4.5 A	Microstepping : 1, 1/2, 1/4, 1/8, 1/16 Dimensions : 122mm x 78mm x 35mm. Weight : = 255 g.
3	BH - SMART- MODBUS - 6A	HighPerformance 6A MicrosteppingBipolar ModbusDriveplusController	1 - 1/16	Supply Voltage 20 VDC to 80 VDC or 15 TO 55 VAC, 50/60Hz	Output current 1.0 A - 6 A	Microstepping : 1, 1/2, 1/4, 1/8, 1/16 Dimensions : 122mm x 78mm x 35mm. Weight : = 255 g.

STEPPER DRIVERS

Micro stepping drivers are particularly suitable for the applications requirement of extremely low noise and low temperature rise which significantly improves the performance of the stepper motors that leads to low temperature rise, low vibration. With the adjustment technology (step/rev and current) according to different motors, the driven motors automatically generate optimal parameters and achieve the best performance at higher speeds. It is suitable for driving 2-phase and 4-phase hybrid stepping motors

Features

- > High performance, cost-effective
- > Suitable for 2-phase and 4-phase motors
- > Support PUL/DIR and CW/CCW modes
- > Short-voltage, over-voltage, over-current and short-circuit protection
- > Low temperature rise, smooth motion
- > Pulses Response Frequency Can Reach 200KHz

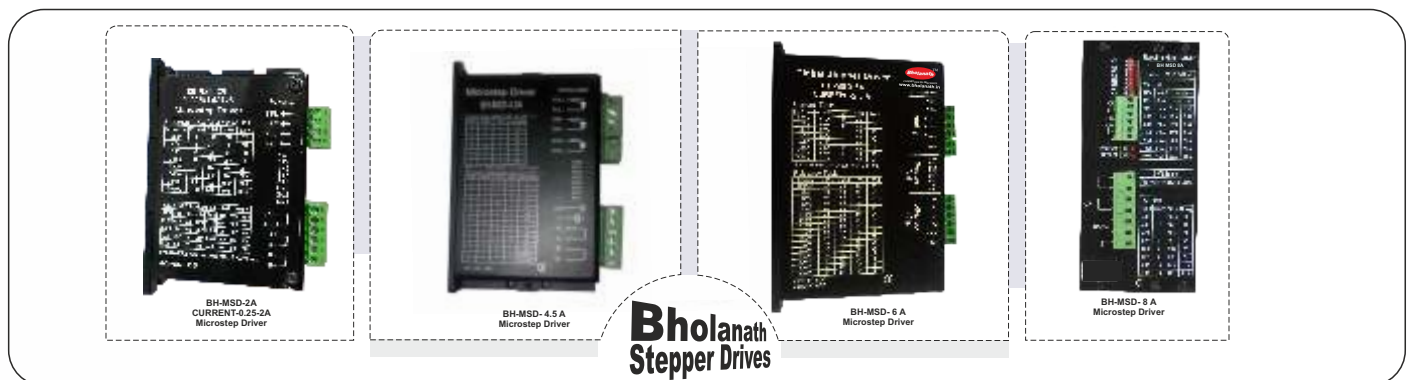
Applications

Suitable for a wide range of stepping motors, from NEMA size 17 to 42.

It can be used in various kinds of machines, such as X-Y tables.

And a variety of large-scale automation equipments and instruments.

For example: labeling machine, cutting machine, packaging machine, plotter, engraving machine, CNC machine tools and so on. It always performs well when applied for equipment which requires for low-vibration, low-noise, high-precision and high-velocity.



Bipolar Models

SR. No	Drive Model	Type	Resolution	Power Supply	Max. Cur/ phase	Specifications
1	BH - MSD - 2A	High Performance 2 A Microstepping Bipolar Drive	1 - 1/128	Supply Voltage 12 VDC to 36 VDC	Output current 0.25 A - 2 A	Microstepping : 1 , 1/2 , 1/4 , 1/8 , 1/16 , 1/32 , 1/64 1/128. Dimensions : 96mm x 60mm x 24.5mm. Weight : = 180 g.
2	BH - MSD - 4.5A	High Performance 4.5 Amp Microstepping Bipolar Drive	1/2 - 1/256	Supply Voltage 24 V to 50 VDC	Output current 1.5 A - 4.5 A	Microstepping : 1 / 2 , 1/4 , 1/8 , 1/16 , 1/32 , 1/64 , 1/128 , 1/256 , 1/5 , 1/10 , 1/25 , 1/50 , 1/125 , 1/250 Dimensions : 118mm x 76mm x 33mm. Weight : = 300 g.
3	BH - MSD - 4.5A-4L					
4	BH - MSD - 6A	High Performance 6 Amp Microstepping Bipolar Drive	1/2 - 1/256	Supply Voltage 20 VAC to 60 VAC or from 24 VDC to 80 VDC	Output current 2 A - 6 A	Microstepping : 1 / 2 , 1/4 , 1/8 , 1/16 , 1/32 , 1/64 , 1/128 , 1/256 , 1/5 , 1/10 , 1/25 , 1/40 , 1/50 , 1/125 , 1/250 Dimensions : 150mm x 99mm x 48mm. Weight : = 700 g.
5	BH - MSD - 6A-4L					
6	BH - MSD - 8A	High Performance 8 Amp Microstepping Bipolar Drive	1 - 1/256	Supply Voltage 110 VAC to 220 VAC	Output current 0.5 A - 8 A	Microstepping : 1 , 1/2 , 1/4 , 1/8 , 1/16 , 1/32 , 1/64 , 1/128 , 1/256 , 1/5 , 1/10 , 1/20 , 1/25 , 1/40 , 1/50 , 1/100 , 1/200 , 1/256 Dimensions : 195mm x 107mm x 81mm. Weight : = 1500 g.

Please refer website www.bholanath.in for complete technical details.



Bholanath Stepper Drive Controller is a state of art Product with the power of Cortex-ARM Controller and the latest technologies like Touch sense Rotary Switch. BH-SDC-01-N is a single Motor controller And BH-SDC-2-N is a two Motor controller.

Ideal for Controlling Stepper Motor Through Driver for Linear Motion, Rotary Motion, speed(RPM) direction and Duration of operation , Labeling and Cut to length operations. The product gives the user the power to control the stepper drive and in turn the stepper motor with accuracy

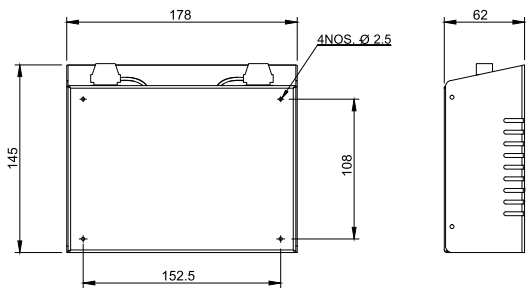
Technical Specifications

- Universal Power Supply – 85 to 265 V ACDC with 2KV Isolation between Supply and other I/Os.
- Touch Key pad- water proof and long life as there is no wear and tear.
- 16 x 2 Alphanumeric Colour LCD Display for Programmer Interface.
- Various Operating Modes – Manual, Automatic, continuous, Jog and Homming.
- In Auto Mode up to 50 programmable Cycles in sequence of operation.
- Every cycle has unique Start; Stop triggers (i.e. any Switch or Delay).
- Sequence of Cycles can be terminated or kept in infinite loop. (helpful for many operations like conveyor or winding machines)
- Manual Mode for checking the parameters at the time of programming or Manual Control.
- JOG Mode gives a simple control through Rotary switch. Motor shaft rotates with the finger touch over Rotary switch.
- Continuous Mode for running the motor at set rpm(variable).
- Movement controlled by Time or input Switches or both as per programmed setup.
- Up to 4 inputs from external switches for position feedback control or Limit Switch and 4 outputs to use as signal.(12Vdc Out put signal)
- No need for external supply for input switches.
- Pulse, Direction and Enable outputs as separate Supply (+) and Open collector (-) terminations.
- Programmable Acceleration and Deceleration Control for every movement.
- Inputs and Units Programmable i.e. RPM, Steps/sec, Angle and Steps.
- 5MHz out put frequency.

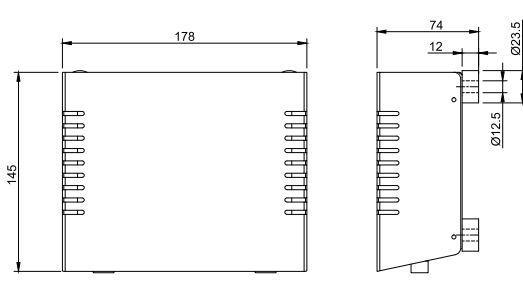
List of Programmable Parameters

Sr. No	Parameter	Options for Programming
1	Rotary Movement	Steps, kSteps(i.e.1000steps), Angle
2	Linear Movement	Length(mm), Pitch of Screw, Total Length of actuator.
3	Speed	RPM, Steps/sec, kSteps/sec
4	Time	Second, Minute
5	Acceleration	Settable(to achieve peak speed)
6	Cycle	Start, Stop, Delay, Trigger of action

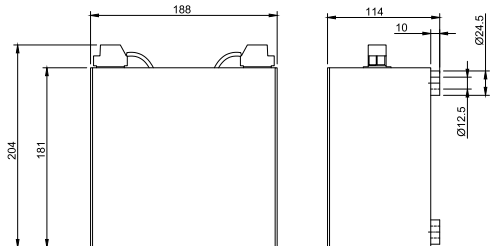
Drawing : BH 24 VDC



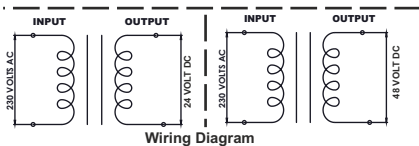
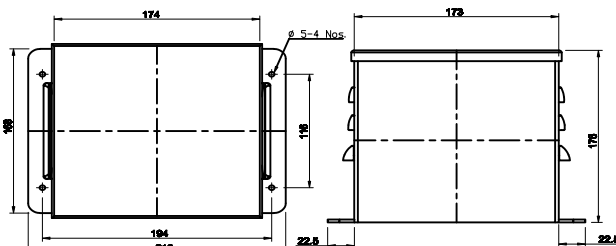
Drawing : BH 48 VDC



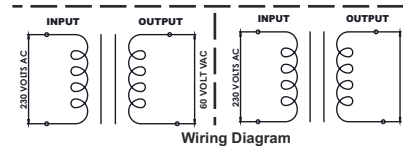
Drawing : BH 60 VAC



Drawing : BH 120 VAC



All Dimensions are in mm.



Transformer Details

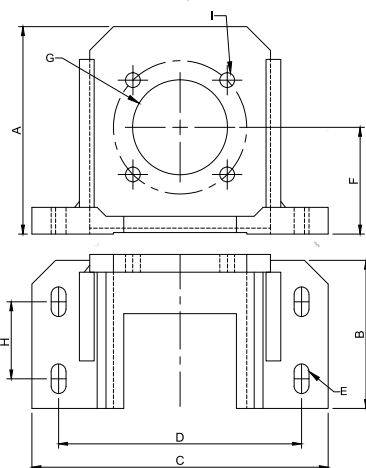
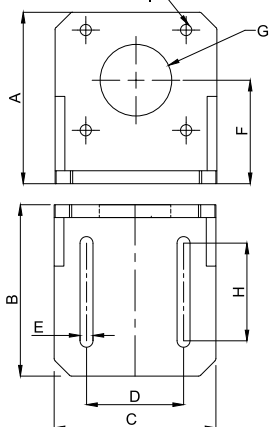
SR. No	Model No	Input	Output	Current Capacity	Weight
1	BH 12 VOLT DC	230 VAC	12 VDC	2 Amp.	0.84 Kg
2	BH 24 VOLT DC	230 VAC	24 VDC	3.5 Amp.	2.1 Kg
3	BH 48 VOLT DC	230 VAC	48 VDC	4.5 Amp.	2.9 Kg
4	BH 72 VOLT DC	230 VAC	72 VDC	6 Amp.	4.6 Kg
5	BH 60 VOLT AC	230 VAC	60 VAC	6 Amp.	4.6 Kg
6	BH 75 VOLT AC	230 VAC	75 VAC	6 Amp.	5.4 Kg
7	BH 120 VOLT AC	230 VAC	120 VAC	8 Amp.	13.25 Kg
8	BH 200 VOLT AC	230 VAC	200 VAC	8 Amp.	14 Kg

Note:- Power supplies are also available in combination for 2,3,4, or more multiple motors as a single unit with multiple out put.

MOUNTING BRACKETS

BH 42 MB , BH 42 MB-PL , BH 57 MB ,
BH 60 MB & BH 86 MB

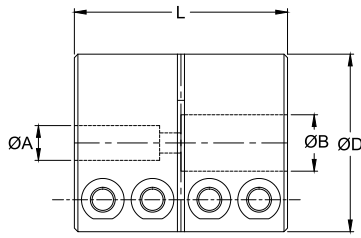
BH 57 MB-PL, BH 86 MB-PL ,BH 110 MB



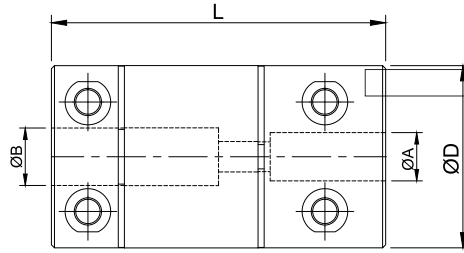
Product Code	Model No.	Height	Length	Width	Slot Center-1	Slot Size	Bore Center Distance	Bore Size	Slot Center-2	Mounting Holes
1	BH 42 MB (NEMA17)	A	B	C	D	E	F	G	H	I
2	BH 42 MB-PL (NEMA17)	53	53	50	30	4.5	32	22.1	30	Ø3.5 x PCD43.84
3	BH 57 MB (NEMA23)	70.5	66	65	40	4.5	41.5	38.2	42	Ø5.2 x PCD66.5
4	BH 57 MB-PL (NEMA23)	70	52	100	82	5X5	36	32	26	Ø5 x PCD45
5	BH 60 MB (NEMA24)	78.5	66	68	40	4.5	47	38.2	41.5	Ø5.2 x PCD66.5
6	BH 86 MB (NEMA34)	96	97.5	100	69.5	6.5	51.45	73.1	64	Ø6.8 x PCD98.4
7	BH 86 MB-PL (NEMA34)	125	76	159	140	8X16	64	80	44.5	Ø6.5 x PCD100
8	BH 110 MB (NEMA42)	133	77	150	138	5X10	67.5	56	36	Ø8.5 x PCD125.5

Please refer website www.bholanath.in for complete technical details.

Drawing : NEMA 17



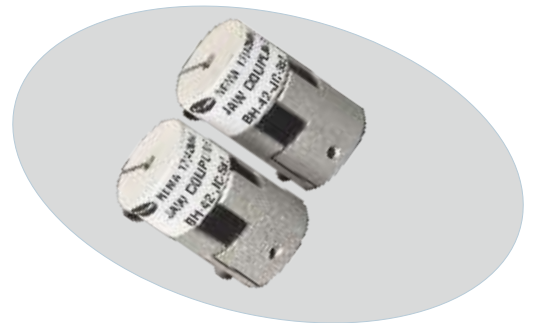
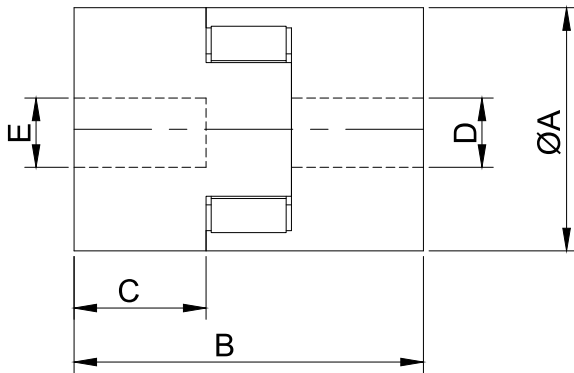
Drawing : NEMA 23,24,34,42



Rigid Coupling Models

SR. No	Model No	Bore size (mm)A- Motor End	Bore size (mm) B	Diameter (mm) D	Length (mm) L	Weight (Gms)
1	BH42-RC -5X5	Ø5	Ø5	Ø25	30	38
2	BH42-RC -5X6.35	Ø5	Ø6.35	Ø25	30	35
3	BH42-RC -5X8	Ø5	Ø8	Ø25	30	30
4	BH57-RC -6.35X8	Ø6.35	Ø8	Ø30	55	112
5	BH57-RC -8X8	Ø8	Ø8	Ø30	55	100
6	BH57-RC -8X9.5	Ø8	Ø9.5	Ø30	55	87
7	BH57-RC -10X10	Ø10	Ø10	Ø30	55	80
8	BH60-RC -8X8	Ø8	8	Ø30	55	100
9	BH60-RC -8X9.5	Ø8	9.5	Ø30	55	87
10	BH86-RC-12X8	Ø12	Ø8	Ø45	65	250
11	BH86-RC-12X12	Ø12	Ø12	Ø45	65	245
12	BH86-RC-12.7X12.7	Ø12.7	Ø12.7	Ø45	65	240
13	BH86-RC-12.7X14	Ø12.7	Ø14	Ø45	65	235
14	BH86-RC-14X14	Ø14	Ø14	Ø45	65	230
15	BH110-RC-19X19	19	19	Ø45	65	230

Jaw Coupling



Jaw Coupling Models

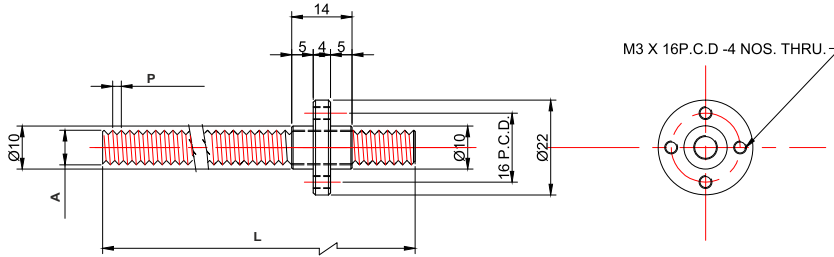
SR. No	Model No	Diameter (mm) A	Length (mm) B	C	Bore size (mm)D- Motor End	Bore size (mm) E	Weight (Gms)
1	BH42-JC - 5X5	Ø28	43.2	15.6	Ø5	Ø5	73
2	BH42-JC -5X6.35	Ø28	43.2	15.6	Ø5	Ø6.35	73
3	BH42-JC -5X8	Ø28	43.2	15.6	Ø5	Ø8	73
4	BH57-JC -6.35X8	Ø35	50.8	19.0	Ø6.35	Ø8	135
5	BH57-JC -8X8	Ø35	50.8	19.0	Ø8	Ø8	135
6	BH57-JC -8X9.5	Ø35	50.8	19.0	Ø8	Ø9.5	135
7	BH57-JC -10X10	Ø35	50.8	19.0	Ø10	Ø10	135
8	BH60-JC -8X8	Ø35	50.8	19.0	Ø8	8	135
9	BH60-JC -8X9.5	Ø35	50.8	19.0	Ø8	9.5	135
10	BH86-JC-12X8	Ø65	88	52.5	Ø12	Ø8	700
11	BH86-JC-12X12	Ø65	88	52.5	Ø12	Ø12	700
12	BH86-JC-12.7X12.7	Ø65	88	52.5	Ø12.7	Ø12.7	700
13	BH86-JC-12.7X14	Ø65	88	52.5	Ø12.7	Ø14	700
14	BH86-JC-14X14	Ø65	88	52.5	Ø14	Ø14	700
15	BH110-JC-19X19	Ø65	88	52.5	19	19	700

Please refer website www.bholanath.in for complete technical details.

LEAD SCREW

LEAD SCREW THREADS -

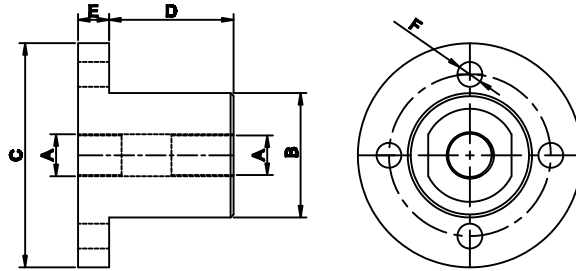
METRIC, TRAPEZOIDAL, SQUARE THREADS



SR. No.	Model No.	THREAD SIZE (A)	PITCH (P)	LEAD	THREAD FORM	MATERIAL	LENGTH (L)
			mm	mm			mm
1	BH -LS-M5.5X0.5-200	M5.5X0.5	0.5	0.5	Metric	SS 303	50 to1500
2	BH -LS-TR6X2-200	TR6X2	1.0	2.0	Trapezoidal	SS 303	50 to1500
3	BH -LS-M8X1.25 - 200	M8X1.25	1.25	1.25	Metric	SS 303	50 to1500
4	BH -LS-M8X2.0 - 200	M8X2.0	2.0	2.0	Metric	SS 303	50 to1500
5	BH -LS-TR8X8 - 200	TR8X8	2.0	8.0	Trapezoidal	SS 303	50 to1500
6	BH -LS-M10X1.50 - 200	M10X1.50	1.50	1.50	Metric	SS 303	50 to1500
7	BH -LS-M10X2.0 - 200	M10X2.0	2.0	2.0	Metric	SS 303	50 to1500
8	BH -LS-M10X3.0 - 200	M10X3.0	1.50	3.0	Metric	SS 303	50 to120
9	BH -LS-M12X1.5 - 200	M12X1.5	1.50	1.50	Metric	SS 303	50 to1500
10	BH -LS-M12X2.0 - 200	M12X2.0	2.0	2.0	Metric	SS 303	50 to1500
11	BH -LS-M14X2.0 - 200	M14X2.0	2.0	2.0	Metric	Alloy Steel	50 to1500
12	BH -LS-M16X2.0 - 200	M16X2.0	2.0	2.0	Metric	Alloy Steel	50 to1500
13	BH -LS-M18X4.0 - 200	M18X4.0	4.0	4.0	Square	Alloy Steel	50 to1500
14	BH -LS-M20X4.0 - 200	M20X4.0	4.0	4.0	Square	Alloy Steel	50 to1500

LEAD SCREWS

Anti Backlash Brass Nut



ANTI BACKLASH NUT

SR. No.	Model No.	Bore Thread Size (A)	B	C	D	E	F
		mm	mm	mm	mm	mm	mm
1	BH -ABN-M5.5X0.5	M5.5X0.5	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
2	BH -ABN-TR6X2	TR6X2	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
3	BH -ABN-M8X1.25	M8X1.25	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
4	BH -ABN-M8X2	M8X2	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
5	BH -ABN-TR8X8	TR8X8	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
6	BH -ABN-M10X1.50	M10X1.50	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
7	BH -ABN-M10X2	M10X2	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
8	BH -ABN-M10X3	M10X3	Ø20	Ø36	20	5	Ø4.0-2nos.-PCD-Ø26
9	BH -ABN-M12X1.5	M12X1.5	Ø25	Ø41	25	5	Ø4.2-4nos.-PCD-Ø30
10	BH -ABN-M12X2.0	M12X2	Ø25	Ø41	25	5	Ø4.2-4nos.-PCD-Ø30
11	BH -ABN-M14X2.0	M14X2	Ø25	Ø41	25	5	Ø4.2-4nos.-PCD-Ø30
12	BH -ABN-M16X2.0	M16X2	Ø25	Ø41	25	5	Ø4.2-4nos.-PCD-Ø30
13	BH -ABN-M18X4.0	M18X4	Ø32	Ø55	33	7	Ø6.5-4nos.-PCD-Ø42.3
14	BH -ABN-M20X4.0	M20X4	Ø32	Ø55	33	7	Ø6.5-4nos.-PCD-Ø42.3

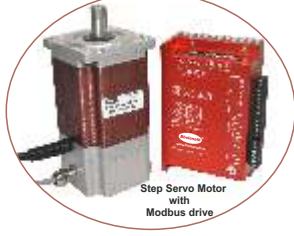
Please refer website www.bholanath.in for complete technical details.

BHOLANATH STEP SERVO MOTORS



STEP SERVO MOTORS

COMMITTED TO PRECISION



Bholanath Step Servo motors are closed loop stepping systems - high speed (>2000 RPM) stepper motors with incremental optical encoders and digital drives.

Incremental optical encoders (1000 PPR and 2500 PPR) feedback with new generation digital drives, Bholanath Step Servo motors get the reliability of servo motors.

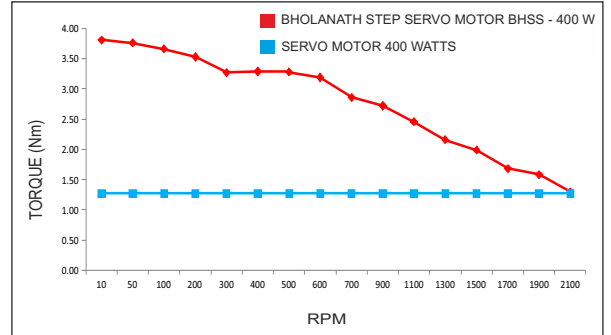
Bholanath Step Servo motors are good replacement of servo motors (15 Watts to 1800 Watts), the price being much lower than servos motors.

Bholanath Step Servo motors give high speed performance of servo motors with accurate feedback and micro stepping accuracy of stepper motors with feedback.

Bholanath Step Servo motors give better holding torque's (complete stand still position).

Comparison between Bholanath Step Servo BHSS - 400 W with 400 Watt servo motor.

As can be seen from the graph, the Bholanath Step Servo motor torque equals servomotor torque at 2000 RPM. Thus for applications up to 2000 RPM, Bholanath Step Servo motor can easily be used. At lesser RPM, say at 1000 RPM, the Bholanath Step Servo motor gives 50% more torque than servo, giving the user much better performance.



The Step Servo Motor Driver has automatic current adjustments as per load, resulting in low heat / generation, thereby giving high efficiency. Also with automatic position feedback accurate movement as per command is achieved and no separate programming required

BHSS - 15 W INTEGRATED STEP SERVO MOTOR



Committed to precision
www.bholanath.in

Closed Loop Stepping System which includes High Speed (>1000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

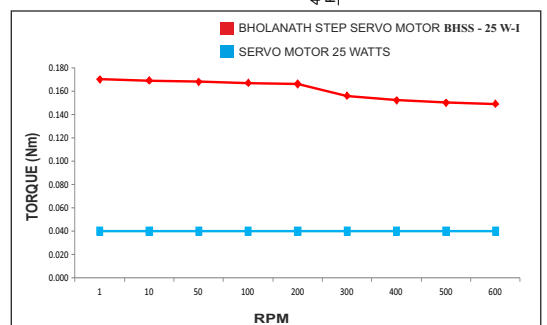
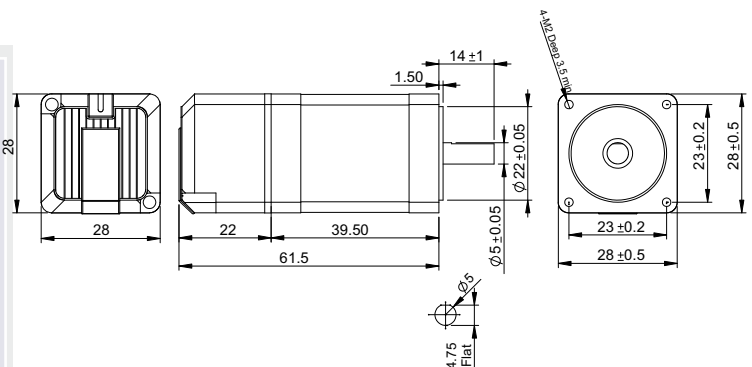
SUITABILITY - The BHSS - 15 W-I Integrated Step Servo Motor has maximum speed 600 RPM and has four times the torque of an equivalent 15W servo motor.



Characteristics

Power Input - BH-12 VDC/BH-24VDC
Encoder Options - 4096 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 0.556 Kg
Current Per Phase - 1.0 A
Torque - 0.166 Nm - 0.04 Nm
RPM - 0 - 600
Stock Temperature - (- 20° C to + 50° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max. Play (450 G Load)
Shaft Radial Play - 0.02 Max. Play (450 G Load)
Max. Radial Force - 20 N (20 MM from Front Flange)
Max. Axial Force - 8 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Electro Magnetic Brake - BR
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 15W - I - 1000 - IP 60-N



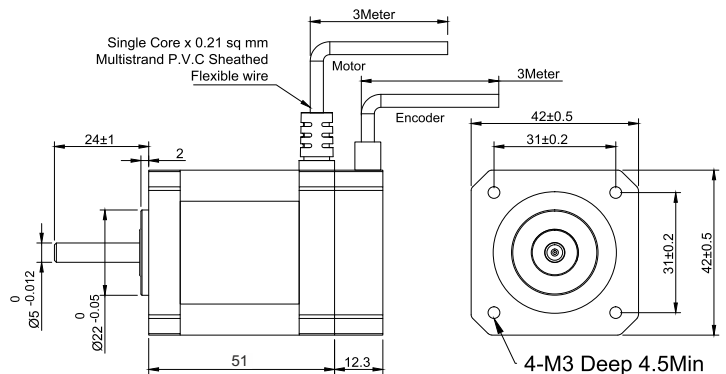
Closed Loop Stepping System which includes High Speed (>1500 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 25 W Step Servo is comparable to 25 Watts Servo Motor upto 900 RPM. The Step - Servo Motor BHSS - 25 W gives more torque at lower RPM's thus giving a better performance than 25 Watts Servo Motors as seen in the graph.

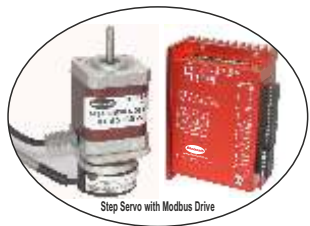
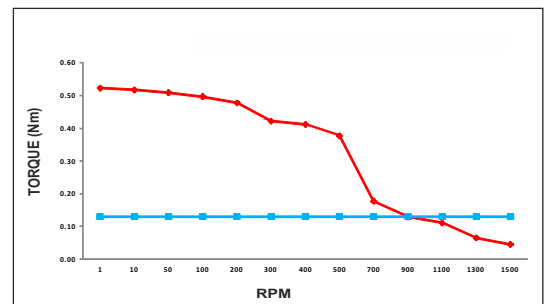
Characteristics

Power Input For Standard Model (S) - BH-36 VDC
Power Input For Ethercat Model (Ecat) - BH-36 VDC
Power Input For Modbus Model (MBUS) - BH-36 VDC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 0.556 Kg
Current Per Phase - 1.5 A
Torque - 0.7 Nm - 0.13 Nm
RPM - 0 - 1500
Stock Temperature - (- 20° C to + 50° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 28 N (20 MM from Front Flange)
Max. Axial Force - 10 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 25 W- S - 1000 - 3MTR.- IP 60-N



■ BHOANATH STEP SERVO MOTOR BHSS - 25 W
■ SERVO MOTOR 25 WATTS



BHSS - 25 W INTEGRATED STEP SERVO MOTOR

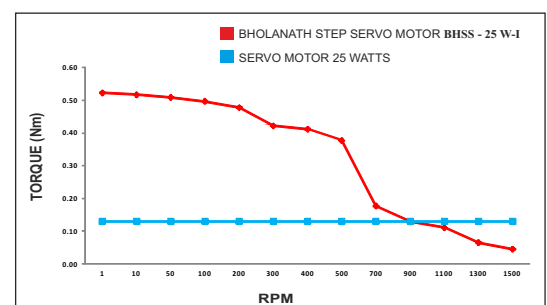
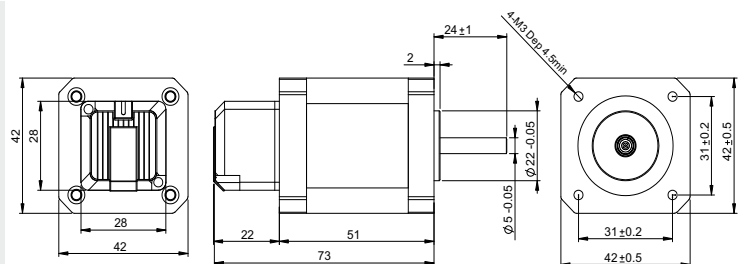
Closed Loop Stepping System which includes High Speed (>1500 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 25 W-I Integrated Step Servo is comparable to 25 Watts Servo Motor upto 900RPM. The Integrated Step - Servo Motor BHSS - 25 W-I gives more torque at lower RPM's thus giving a better performance than 25 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-36 VDC
Encoder Options - 4096 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 0.556 Kg
Current Per Phase - 1.5 A
Torque - 0.7 Nm - 0.13 Nm
RPM - 0 - 1500
Stock Temperature - (- 20° C to + 50° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 28 N (20 MM from Front Flange)
Max. Axial Force - 10 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 25 W- I - 1000 - 3MTR.- IP 60-N



BHSS - 50 W STEP SERVO MOTOR



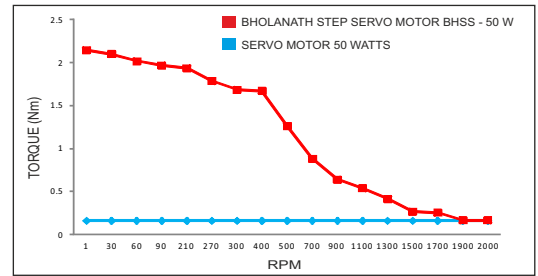
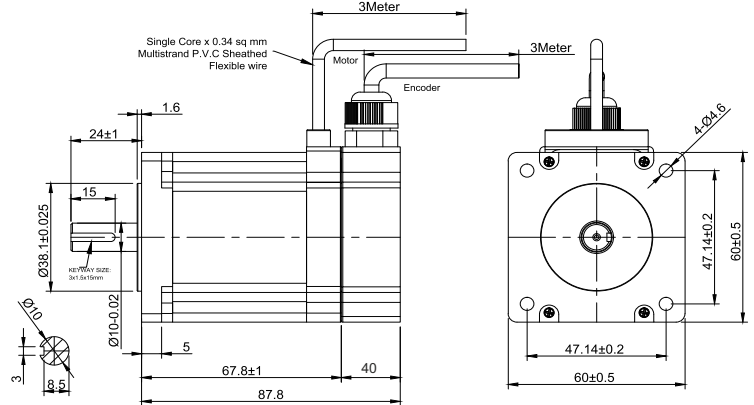
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 50 W Step Servo is comparable to 50 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 50 W gives more torque at lower RPM's thus giving a better performance than 50 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-48 VDC
Power Input For Ethercat Model (Ecat) - BH-48 VDC
Power Input For Modbus Model (MBUS) - BH-48 VDC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.45 Kg
Current Per Phase - 2.8 A
Torque - 2.1 Nm - 0.16 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-50 W-S - 1000 - 3MTR.- IP 60-N



BHSS - 50 W INTEGRATED STEP SERVO MOTOR

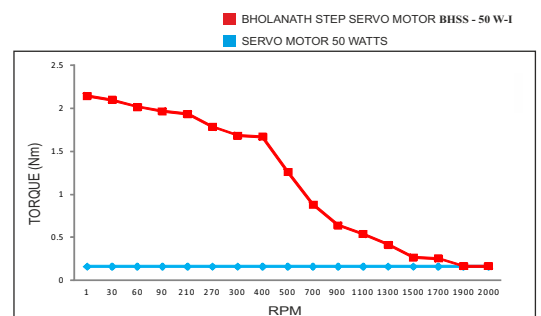
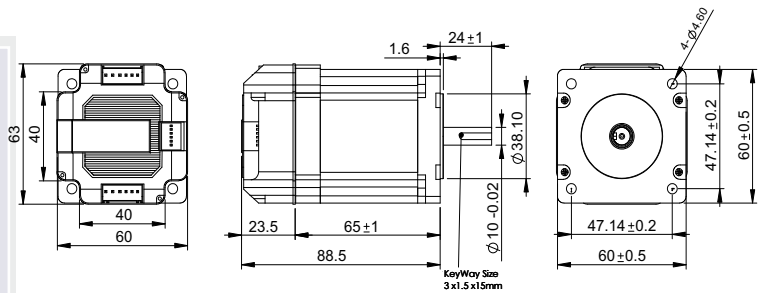
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 50 W-I Integrated Step Servo is comparable to 50 Watts Servo Motor up to 2000RPM. The Integrated Step - Servo Motor BHSS - 50 W-I gives more torque at lower RPM's thus giving a better performance than 50 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-48VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.45 Kg
Current Per Phase - 2.8 A
Torque - 2.1 Nm - 0.16 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-50W - I - 1000 - IP 60-N



BHSS - 100 W STEP SERVO MOTOR

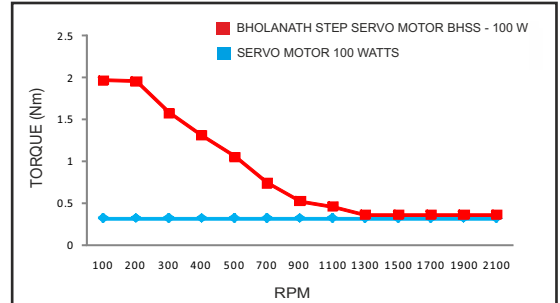
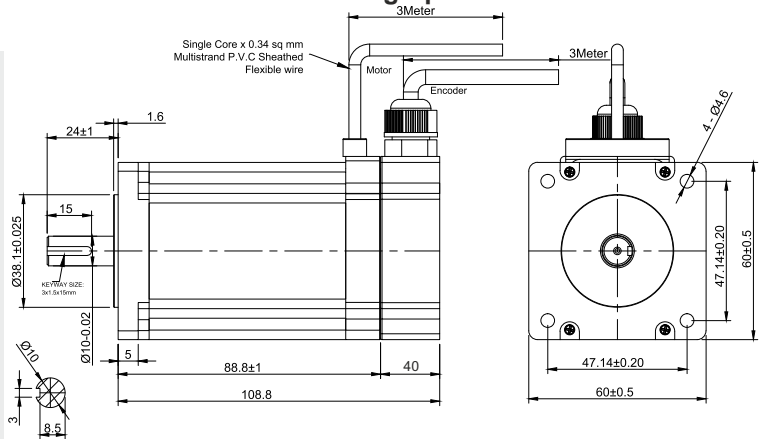
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 100 W Step Servo is comparable to 100 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 100 W gives more torque at lower RPM's thus giving a better performance than 100 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-48 VDC
Power Input For Ethercat Model (Ecat) - BH-48 VDC
Power Input For Modbus Model (MBUS) - BH-48 VDC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.85 Kg
Current Per Phase - 2.8 A
Torque - 2.3Nm - 0.32 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 100 W- S - 1000 - 3MTR - IP 60-N



BHSS - 100 W INTEGRATED STEP SERVO MOTOR

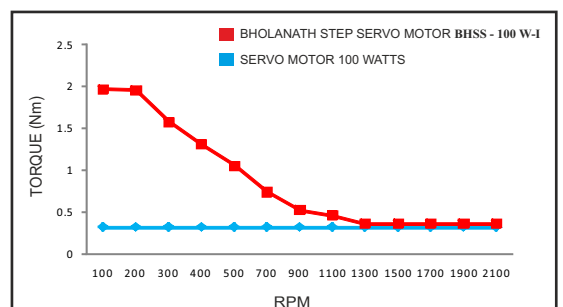
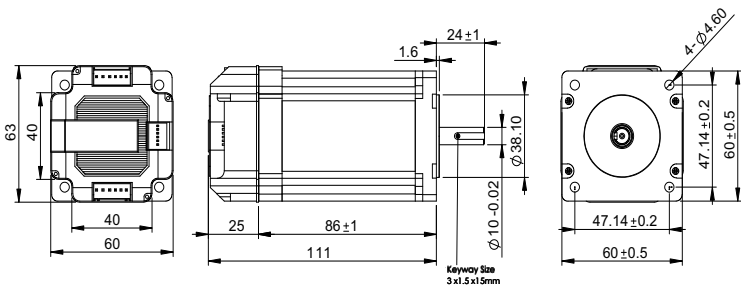
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 100 W-I Integrated Step Servo is comparable to 100 Watts Servo Motor upto 2000 RPM. The Integrated Step - Servo Motor BHSS - 100 W-I gives more torque at lower RPM's thus giving a better performance than 100 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-48VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.85 Kg
Current Per Phase - 2.8 A
Torque - 2.3 Nm - 0.32 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 100W - I - 1000 - IP 60-N



BHSS - 200 W STEP SERVO MOTOR

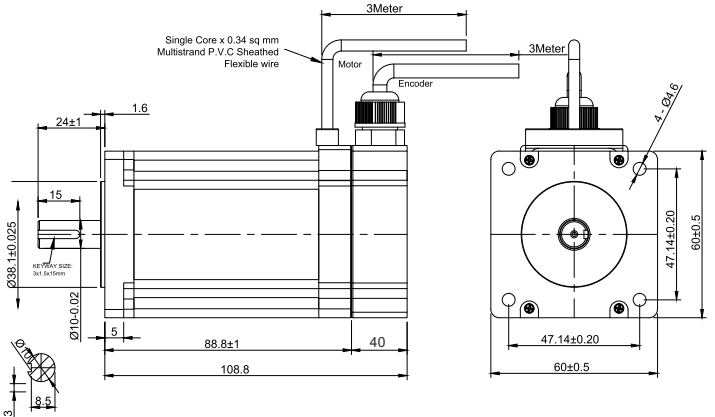
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 200 W Step Servo is comparable to 200 Watts Servo Motor upto 1100RPM. The Step - Servo Motor BHSS - 200 W gives more torque at lower RPM's thus giving a better performance than 200 Watts Servo Motors as seen in the graph.

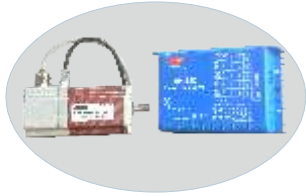
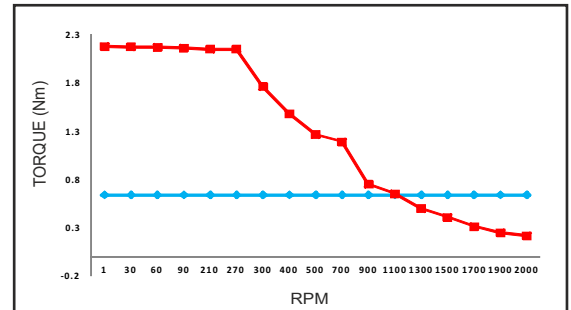
Characteristics

Power Input For Standard Model (S) - BH-48 VDC
Power Input For Ethercat Model (Ecat) - BH-48 VDC
Power Input For Modbus Model (MBUS) - BH-48 VDC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.85 Kg
Current Per Phase - 2.8 A
Torque - 3.1 Nm - 0.32 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
 Pulse Standard Model - S
 Modbus Model - MBUS
 Ethercat Model - ECAT
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Helical Gearbox - HL
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-25 W- S - 1000 - 3MTR.- IP 60-N



■ BHOLANATH STEP SERVO MOTOR BHSS - 200 W
 ■ SERVO MOTOR 200 WATTS



BHSS - 200 W - INTEGRATED STEP SERVO MOTOR

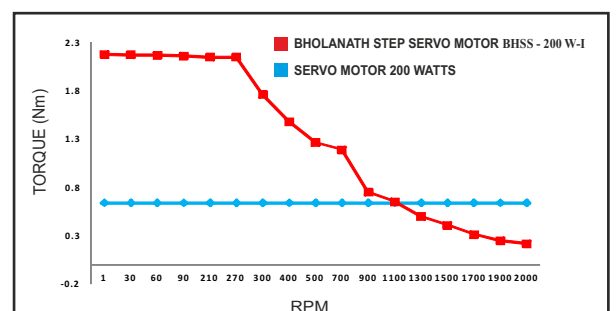
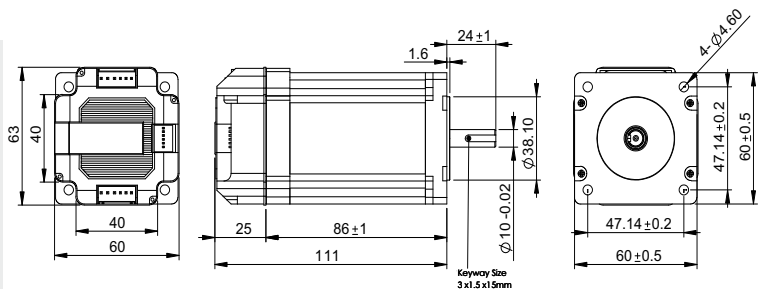
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 200 W-I Integrated Step Servo is comparable to 200 Watts Servo Motor upto 1100 RPM. The Integrated Step - Servo Motor BHSS - 200 W-I gives more torque at lower RPM's thus giving a better performance than 200 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-48VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 1.85 Kg
Current Per Phase - 2.8 A
Torque - 2.2 Nm - 0.32 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 75 N (20 MM from Front Flange)
Max. Axial Force - 15 N (20 MM from Front Flange)

Motor Options Available -
 Integrated Model - I
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Helical Gearbox - HL
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-200W - I - 1000 - IP 60-N



BHSS - 200 W-HT STEP SERVO MOTOR

Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 200 W-HT Step Servo is comparable to 200 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 200 W-HT gives more torque at lower RPM's thus giving a better performance than 200 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAc
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 2.70 Kg
Current Per Phase - 4.0 A
Torque - 3.7 Nm - 0.64 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

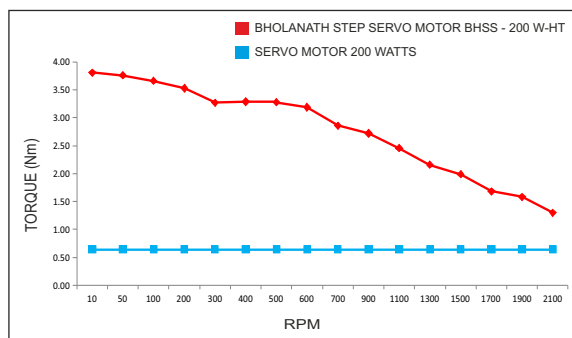
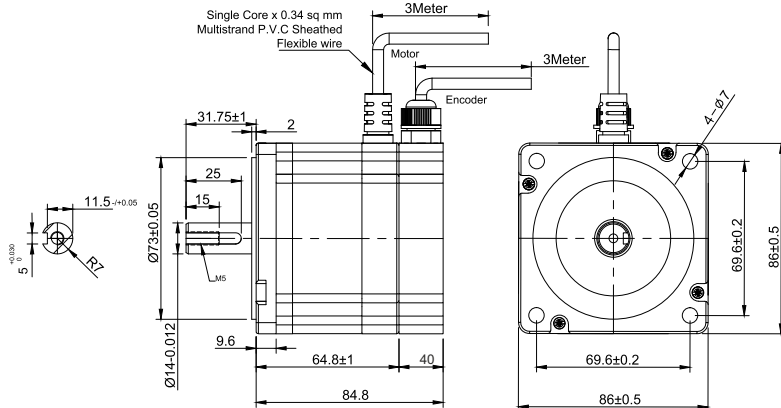
Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-200 W-HT - S - 1000 - 3MTR. - IP 60-N



Step Servo Motor with Modbus drive



Step Servo Motor with Ethercat drive



BHSS - 200 W-HT INTEGRATED STEP SERVO MOTOR

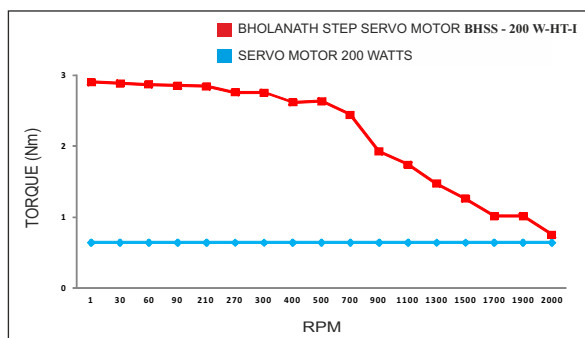
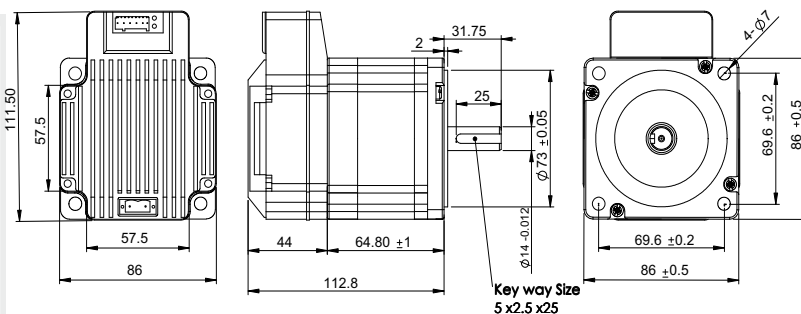
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 200 W-HT Integrated Step Servo is comparable to 200 Watts Servo Motor upto 2000RPM. The Integrated Step - Servo Motor BHSS - 200 W-HT gives more torque at lower RPM's thus giving a better performance than 200 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-72VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 2.70 Kg
Current Per Phase - 4.0 A
Torque - 2.74 Nm - 0.64 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-200W-HT-I - 1000 -IP 60-N



BHSS - 400 W STEP SERVO MOTOR

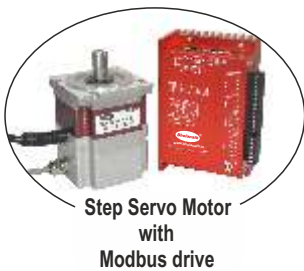
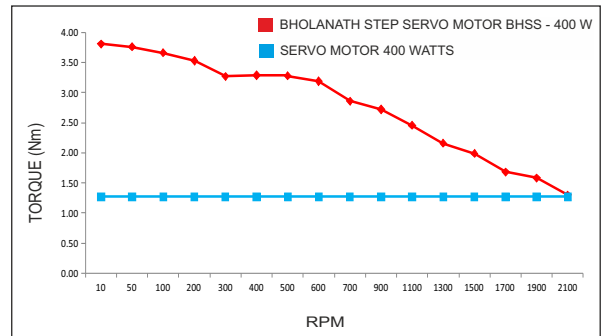
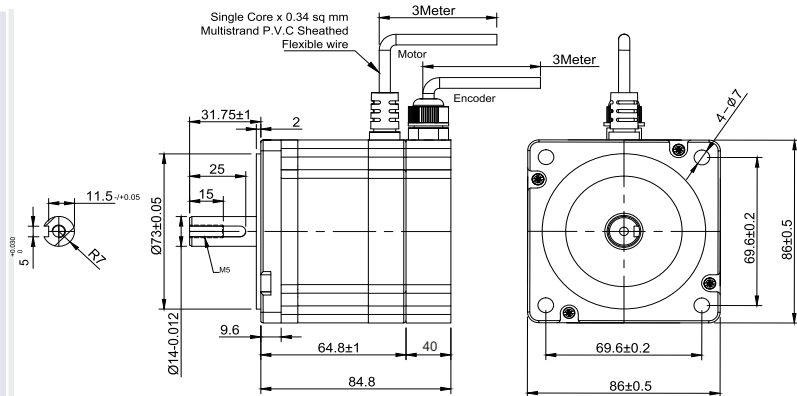
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 400 W Step Servo is comparable to 400 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 400 W gives more torque at lower RPM's thus giving a better performance than 400 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 2.70 Kg
Current Per Phase - 4.0 A
Torque - 3.8 Nm - 1.27 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model- MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 400 W- S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive



Step Servo Motor with Ethercat drive

BHSS - 400 W INTEGRATED STEP SERVO MOTOR

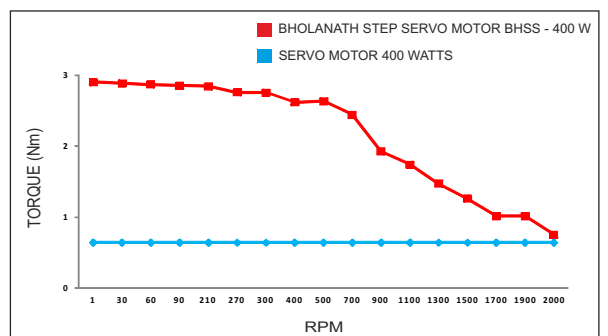
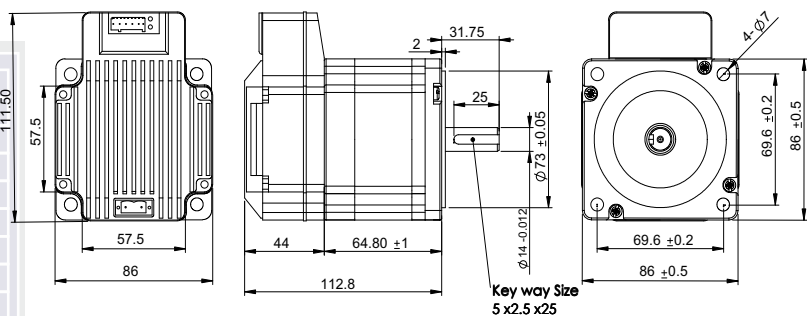
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 400 W Integrated Step Servo is comparable to 400 Watts Servo Motor upto 2000RPM. The Integrated Step - Servo Motor BHSS - 400 W gives more torque at lower RPM's thus giving a better performance than 400 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-72VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 2.70 Kg
Current Per Phase - 4.0 A
Torque - 2.8 Nm - 1.27 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 400W - I - 1000 - IP 60-N



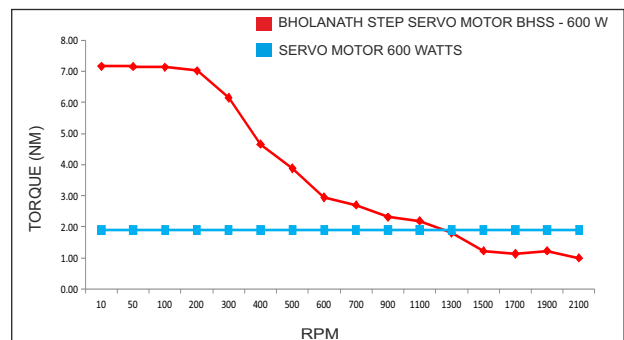
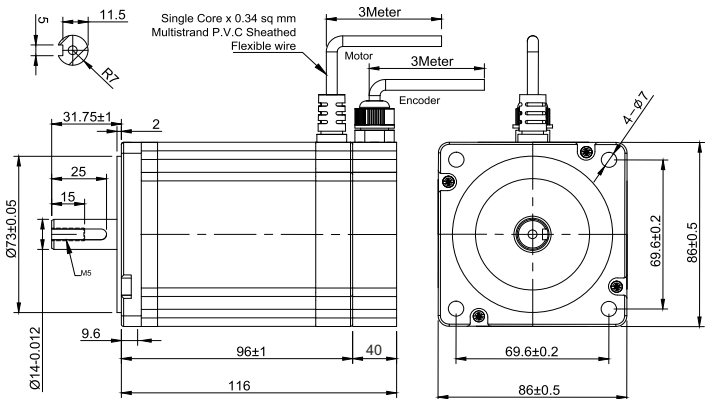
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 600 W Step Servo is comparable to 600 Watts Servo Motor upto 1300 RPM. The Step - Servo Motor BHSS - 600 W gives more torque at lower RPM's thus giving a better performance than 600 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight Of Motor - 3.5 Kg
Current Per Phase - 4.0 A
Torque - 7.1 Nm - 1.9 Nm
RPM of Motor - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 600 W-HT - S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive



Step Servo Motor with Ethercat drive

BHSS - 600W INTEGRATED STEP SERVO MOTOR

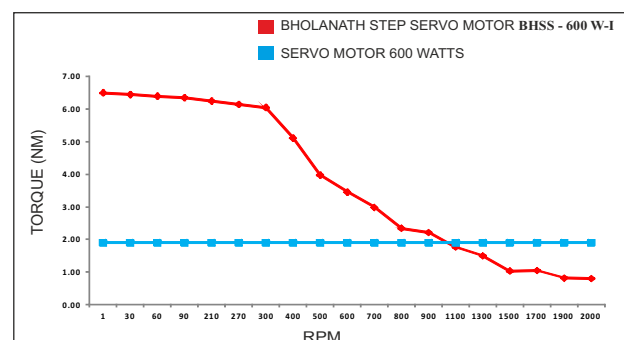
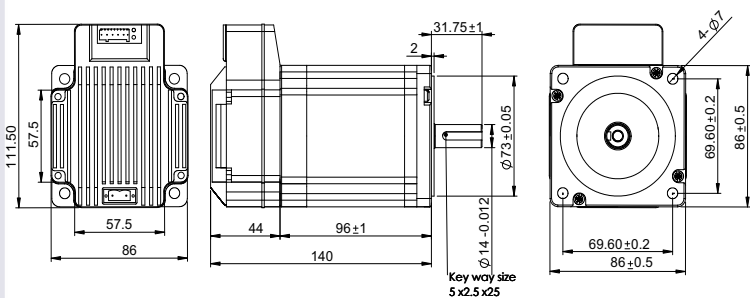
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 600 W Integrated Step Servo is comparable to 600 Watts Servo Motor upto 1100RPM. The Integrated Step - Servo Motor BHSS - 600 W gives more torque at lower RPM's thus giving a better performance than 600 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - BH-72VDC
Encoder Options - 1000 PPR
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight Of Motor - 3.5 Kg
Current Per Phase - 4.0 A
Torque - 6.8 Nm - 1.9 Nm
RPM of Motor - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Integrated Model - I
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 600W - I - 1000 - IP 60-N



BHSS - 750 W STEP SERVO MOTOR

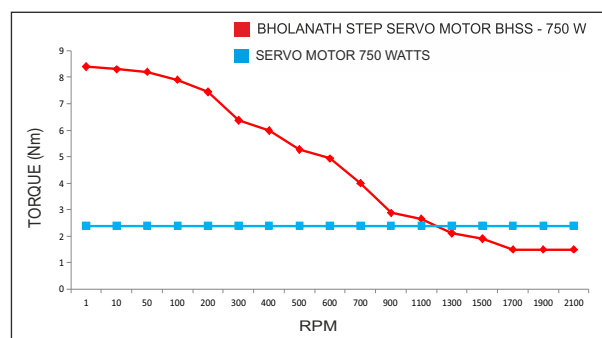
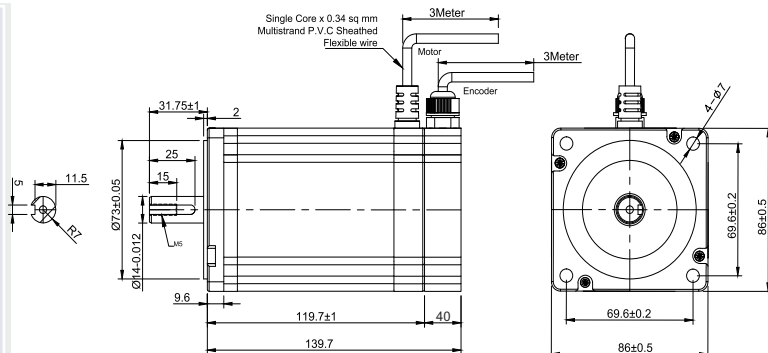
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 750 W Step Servo is comparable to 750 Watts Servo Motor upto 1300 RPM. The Step - Servo Motor BHSS - 750 W gives more torque at lower RPM's thus giving a better performance than 750 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 4.95 Kg
Current Per Phase - 6.0 A
Torque - 8.70 Nm - 2.39 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max. Play (450 G Load)
Shaft Radial Play - 0.02 Max. Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 750 W-HT - S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive

Step Servo Motor with Ethercat drive

BHSS - 1000 W STEP SERVO MOTOR

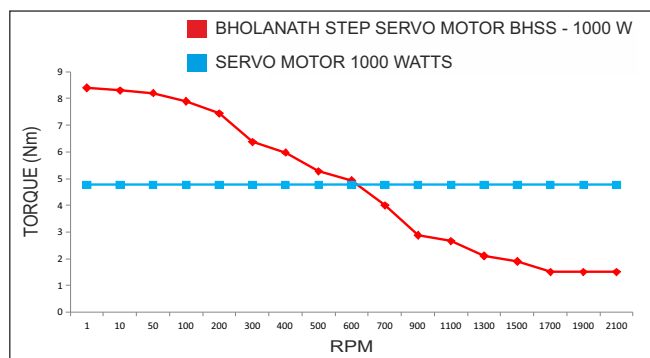
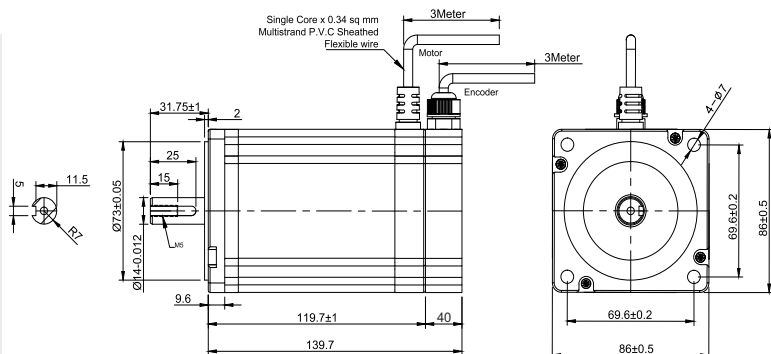
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 1000 W Step Servo is comparable to 1000 Watts Servo Motor upto 600 RPM. The Step - Servo Motor BHSS - 1000 W gives more torque at lower RPM's thus giving a better performance than 1000 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 4.95 Kg
Current Per Phase - 6.0 A
Torque - 8.70 Nm - 4.77 Nm
RPM - 0 - 2000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max. Play (450 G Load)
Shaft Radial Play - 0.02 Max. Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model - MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 1000 W- S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive

Step Servo Motor with Ethercat drive

BHSS - 1500 W STEP SERVO MOTOR

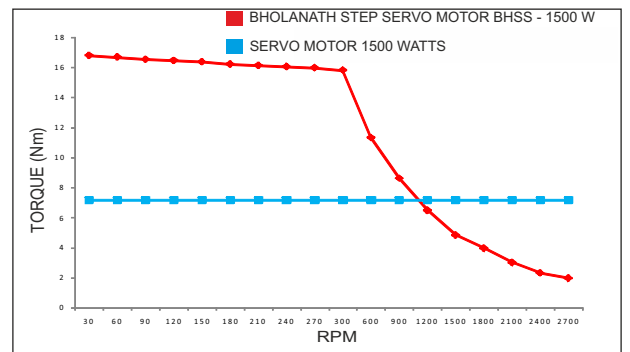
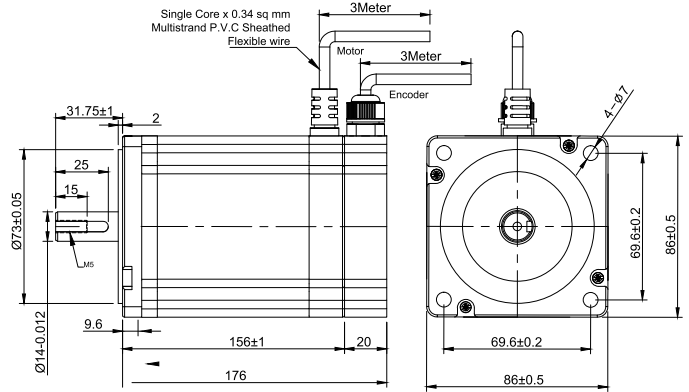
Closed Loop Stepping System which includes High Speed (>1500 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 1500 W Step Servo is comparable to 1500 Watts Servo Motor upto 1200 RPM. The Step - Servo Motor BHSS - 1500 W gives more torque at lower RPM's thus giving a better performance than 1500 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 6.45 Kg
Current Per Phase - 6.2 A
Torque - 18 Nm - 7.16 Nm
RPM - 0 - 1500
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Ma. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model- MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 600 W-HT - S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive



Step Servo Motor with Ethercat drive

BHSS - 1800 W STEP SERVO MOTOR

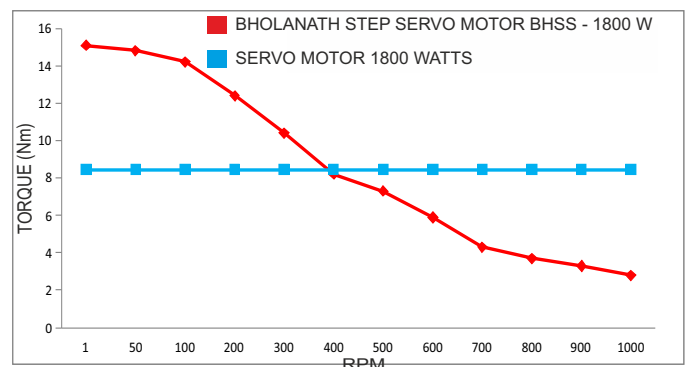
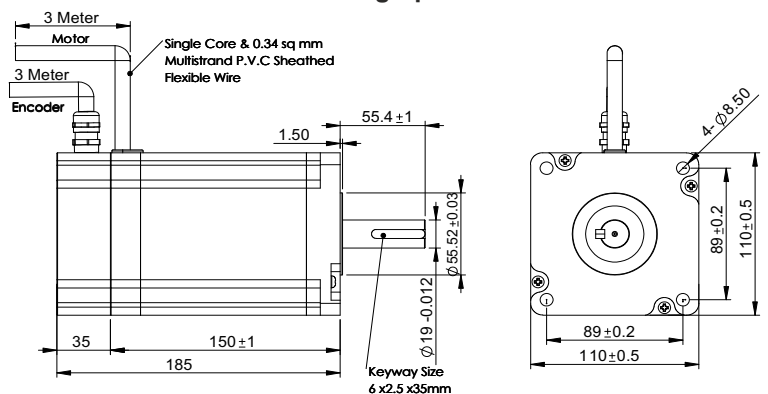
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 1800 W Step Servo is comparable to 1800 Watts Servo Motor upto 400 RPM. The Step - Servo Motor BHSS - 1800 W gives more torque at lower RPM's thus giving a better performance than 1800 Watts Servo Motors as seen in the graph.

Characteristics

Power Input For Standard Model (S) - BH-120VAC
Power Input For Ethercat Model (Ecat) - BH-75VAC
Power Input For Modbus Model (MBUS) - BH-75VAC
Encoder Options - 1000 PPR/2500 PPR
Cable Length - 3 / 5 Meters
Motor - Bipolar Hybrid Stepper Motor
Step Angle - 1.8 Degree
Degree Of Protection - DIN 40050 IP 60 / IP 65
Insulation Class - H
Weight - 8.4 Kg
Current Per Phase - 6.5 A
Torque - 15 Nm - 8.44 Nm
RPM - 0 - 1000
Stock Temperature - (- 10° C to + 70° C)
Operation Temperature - (- 10° C to + 40° C)
Shaft Axial Play - 0.08 Max.Play (450 G Load)
Shaft Radial Play - 0.02 Max.Play (450 G Load)
Max. Radial Force - 220 N (20 MM from Front Flange)
Max. Axial Force - 60 N (20 MM from Front Flange)

Motor Options Available -
Pulse Standard Model - S
Modbus Model- MBUS
Ethercat Model - ECAT
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Helical Gearbox - HL
CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 1800 W- S - 1000 - 3MTR.- IP 60-N



Step Servo Motor with Modbus drive



Step Servo Motor with Ethercat drive

BHOLANATH COOL STEPPERS™

MANUFACTURING FACILITY



Bholanath Team



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