

Bholanath

Precision Engineering Pvt.Ltd.

Manufacturers of

1.8°Hybrid high Torque Step - Servo's ,
Stepper MotorS & Drives

Contents

- 👉 Bipolar & Unipolar Stepper Motors
Nema 17(42mm),23(57mm),24(60mm),34(86mm),42(110mm)
- 👉 Round Stepper Motors
- 👉 Step's Servo Motors



Nema 17(42mm)



Nema 23(57mm)



Nema 24(60mm)



Nema 34(86mm)



Nema 42(110mm)



Nema 23(57mm)
Round Stepper Motor



Nema 23(57mm)
Round Stepper Motor

Bholanath Step Servo's

Made In India

Bholanath[®]

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www.bholanath.in

Manual No - 01

Version - 1.04

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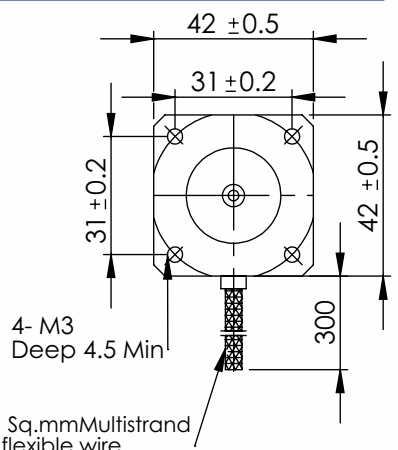
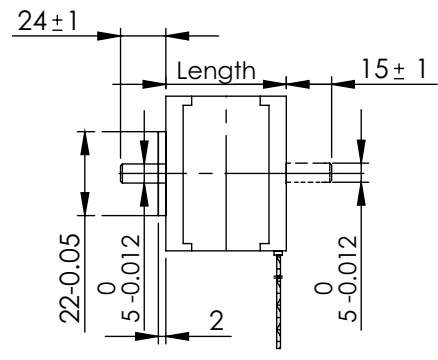
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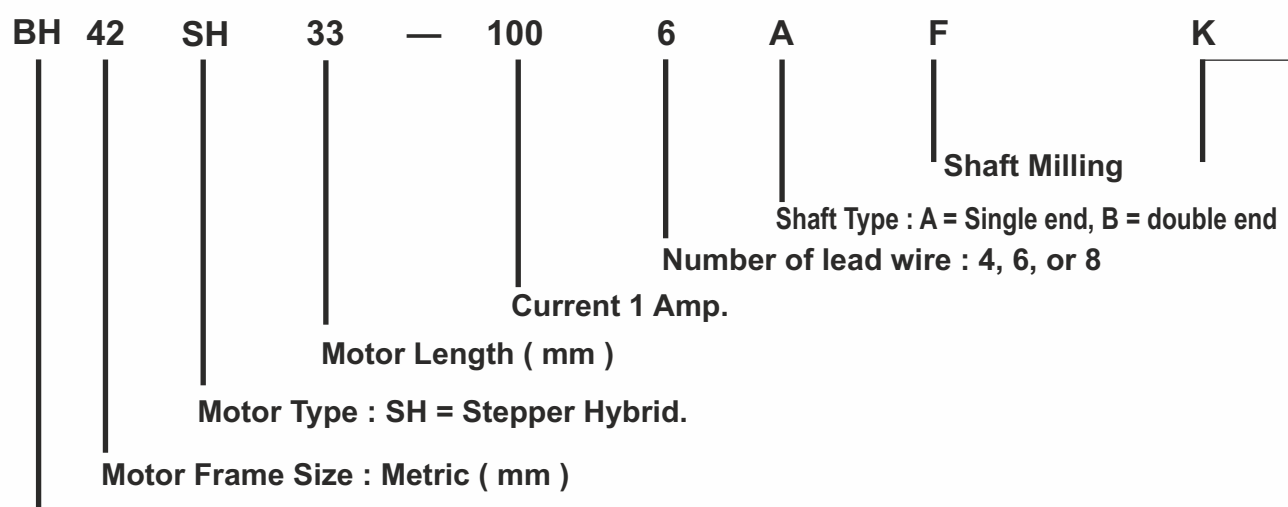
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Stepper Motor Coding Sheet



Single Corex 0.21 Sq.mm Multistrand P.V.C. Sheathed flexible wire.

Product Number Code For Hybrid Stepper Motor



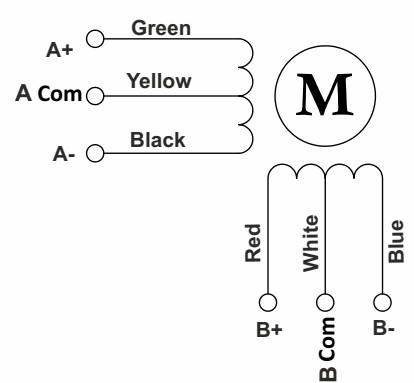
SHAFT DIA.
K - 12.7
KS - 12.0
KA - 9.5
KB - 14
KC - 17

Bholanath

Wiring Diagram

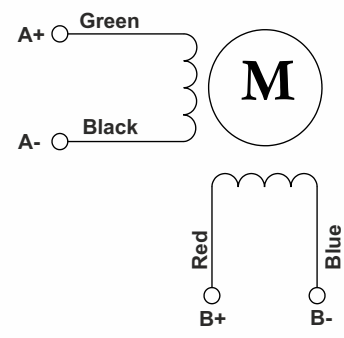
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(Unipolar Connection)

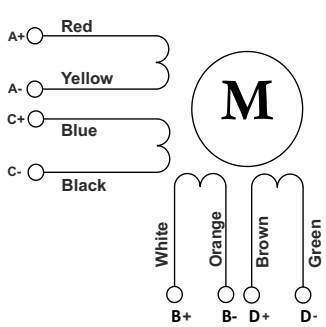


4 LEAD

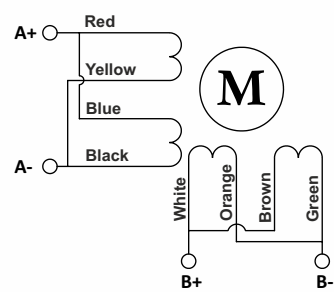
(Bipolar Connection)



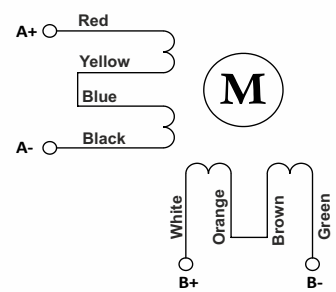
8 LEAD



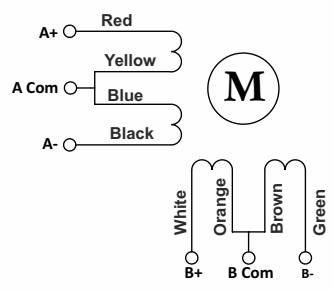
1. Bipolar (parallel) connection



1. Bipolar (Series) connection



1. Unipolar connection





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BHOLANATH STEPPER MOTORS MANUFACTURERS OF 1.8 DEGREE HYBRID STEPPER MOTORS

Bholanath Precision Engineering Pvt Ltd is ISO 9001-2008 company having experienced technocrats committed to precision and repeated accuracy. Strong experience has been developed over the years and this along with rich enthusiasm allows Bholanath team to put forth excellent products.

Our mission at Bholanath is to provide each of our clients Stepper motors which are well known for their superior performance, cost efficiency and maintenance free applications.

Bholanath stepper motors are 100% inspected in worlds best Dynamometer and controller for dynamic torques. Quality checks are done on every component from manufacturing process to assembly.

Bholanath provides 100% traceability of all motors being supplied to customers; all motors have bar codes which have motor electrical details and dynamic torque.



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DELIVERY :--

All Popular models are available ex stock and can be purchased on - line at www.bholanath.in the motors purchased are dispatched in the same day.

Bholanath uses flexible manufacturing concept wherein one motor to thousand of motors can be delivered within short periods. Typically an order of 10,000 motors can be delivered in 3 weeks time.

WEBSITE : –

On our website all our motor details are provided along with costs , you can download PDF files of stepper motors technical specifications , Torque-Speed graphs etc. Please Visit –

www.bholanath.in

INDUSTRIES :--

Bholanath Stepper motors are used in large numbers in paint dispensing machines , ATM machines , Biomedical machines , Packaging machines , Diamond machinery , Printing machines , 3d printers , Dot - Matrix printers , Robotics , Automation products , Automation of assembly lines etc.

RANGE :--

Our current Torque range is from

0.65 Kg cm to 300 Kg cm (0.1 Nm to 30 Nm torque) in the frame sizes:

NEMA 17 (42 MM) - Torque 0.65 Kg cm to 9.0 Kg cm ,
 NEMA 23 (57 MM) - Torque 3.9 Kg cm to 25 Kg cm ,
 NEMA 24 (60 MM) - Torque 7.8 Kg cm to 31 Kg cm ,
 NEMA 34 (86 MM) - Torque 26 Kg cm to 180 Kg cm ,
 NEMA 42 (110 MM) - Torque 220 Kg cm to 300 Kg cm,

Planetary Geared Stepper Motors - Reduction Gear ratio 3 to 512.



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BHOLANATH STEPPER MOTORS MANUFACTURERS OF 1.8 DEGREE HYBRID STEPPER MOTORS

NEW LAUNCHES

- I) Complete AUTOMATION From Bholanath**
- II) Rod style linear actuator stepper motors**
- III) High Temperature Stepper Motor .**
- IV) CE & EMC Marked Stepper Motor.**
- V) X & X-Y Slides .**
- V) Gantry Robot & Scara Robot .**
- VI) Rotary indexing systems**
- VII) Stepper driver Controller .**
- VII) Smart stepper Driver with Controller .**
- VIII) Smart Stepper Driver With Controller Plus Modbus.**

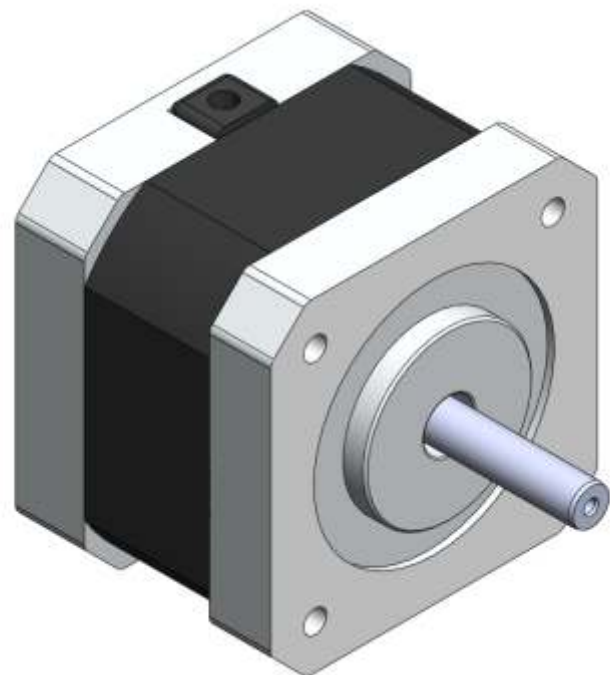
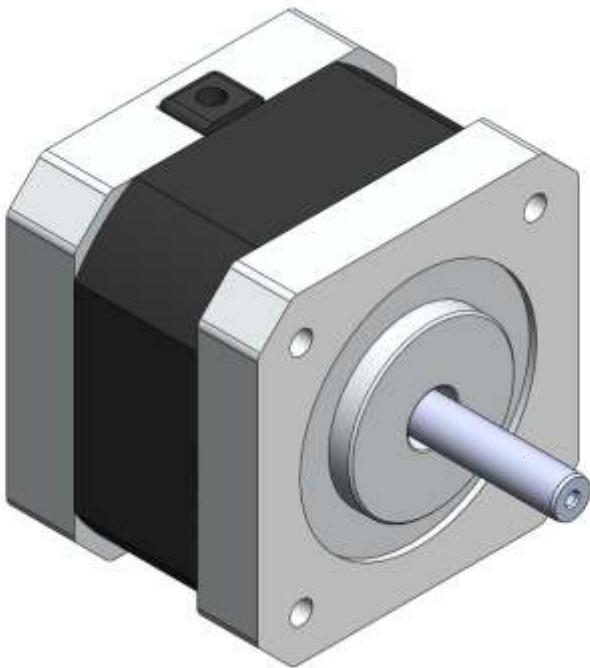


SIZE NEMA 17 & 23 (42 & 57MM)

2 - phase Stepping Motor

1.8° High Torque Hybrid Stepper Motor

NEMA17(42mm) Stepper Motor



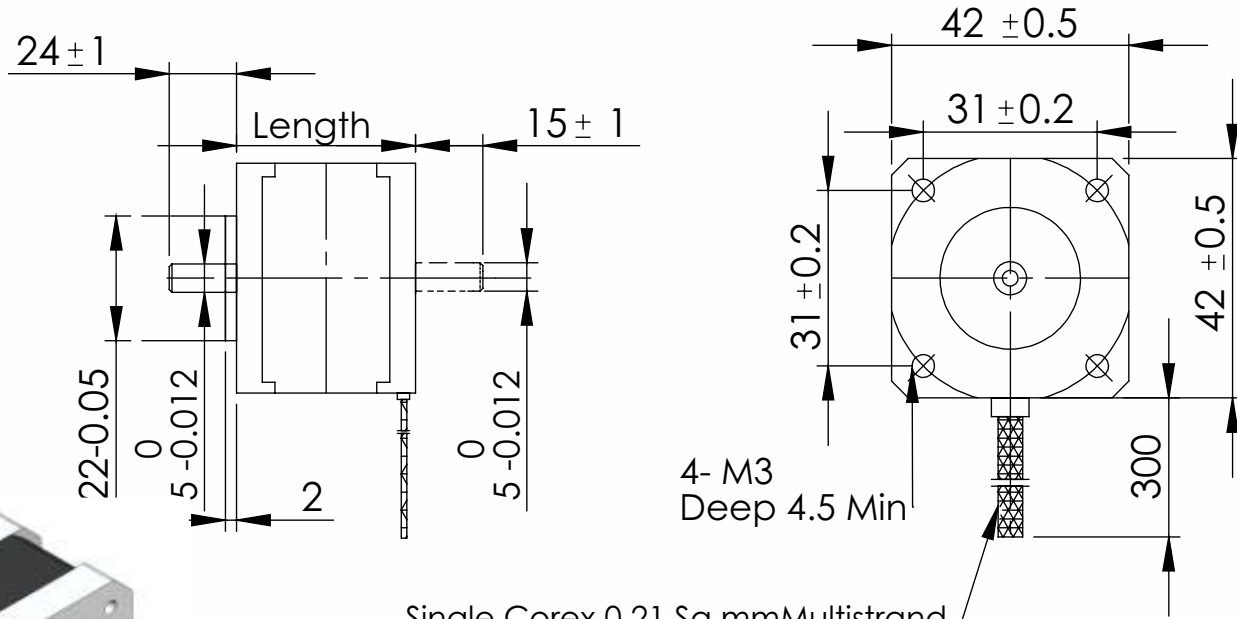


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SIZE NEMA 17 (42MM)
(SQUARE FRAME)
UNIPOLAR WINDING MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	
1	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
2	BH 42 SH 33 - 0406 A	12 - 37	9.6	0.4	24	3.3	1.58	0.158	6	35	0.22	33
3	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
4	BH 42 SH 33 - 1006 A	12 - 37	4.2	1	4.2	1.85	1.58	0.158	6	35	0.22	33
5	BH 42 SH 38 - 0406 A	12 - 37	12	0.4	30	5.1	2.59	0.259	6	54	0.28	38
6	BH 42 SH 38 - 0806 A	12 - 37	6	0.8	7.5	4.15	2.59	0.259	6	54	0.28	38
7	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
8	BH 42 SH 40 - 0506 A	24 - 37	18.1	0.5	36.2	40	5.0	0.5	6	68	0.365	40
9	BH 42 SH 40 - 0406 A	12 - 37	11.12	0.4	27.8	14.72	4.3	0.43	6	68	0.383	40
10	BH 42 SH 47 - 0406 A	12 - 37	12	0.4	30	18.05	3.17	0.317	6	68	0.36	47
11	BH 42 SH 47 - 0806 A	12 - 37	6.16	0.8	7.7	4.1	3.17	0.317	6	68	0.36	47
12	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
13	BH 42 SH 47 - 0506 A	12 - 37	9.25	0.5	18.5	14.68	6.3	0.63	6	68	0.36	47
14	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

◆ **Mechanical Drawing**



Single Corex 0.21 Sq.mm Multistrand P.V.C. Sheathed flexible wire.

All Dimensions are in mm.

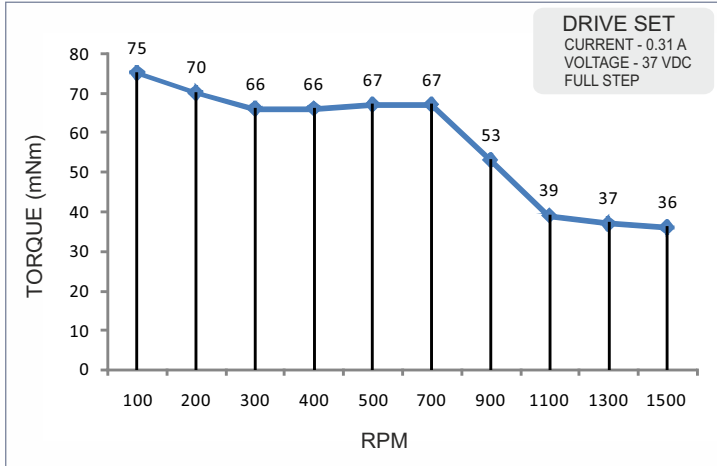




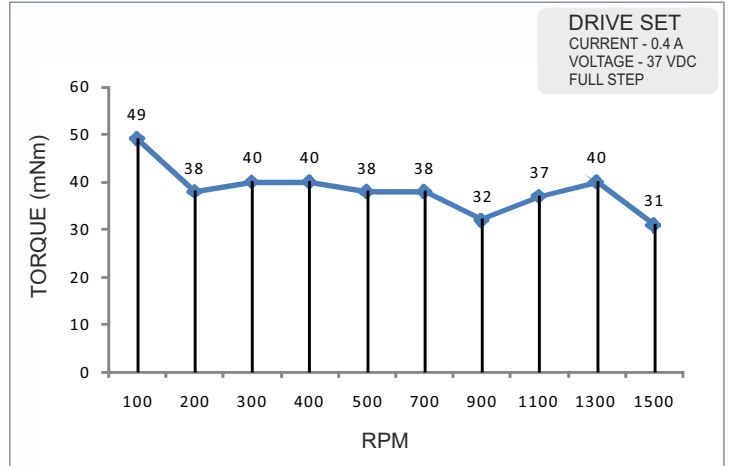
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SIZE NEMA 17 (42MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

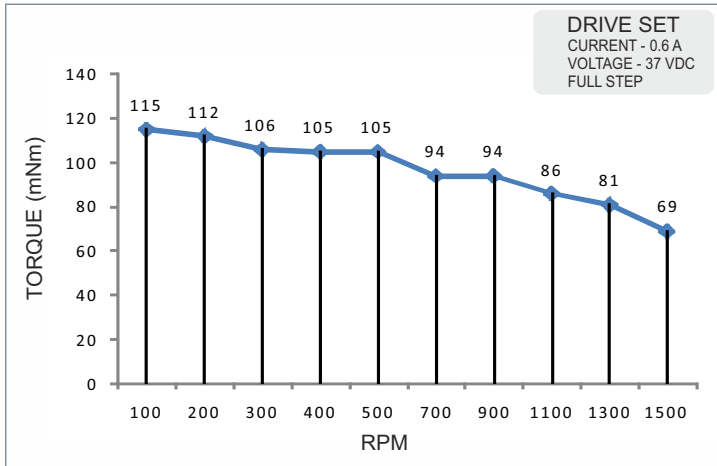
■ Model No : BH 42 SH 33 - 0316 A (1.58Kgcm)



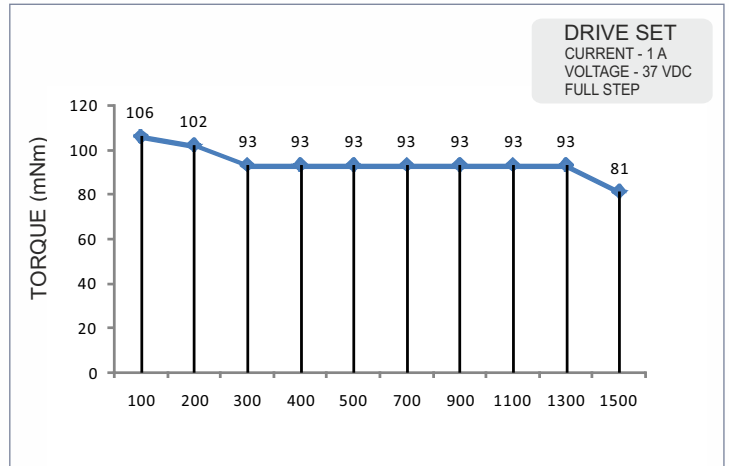
■ Model No : BH 42 SH 33 - 0406 A (1.58Kgcm)



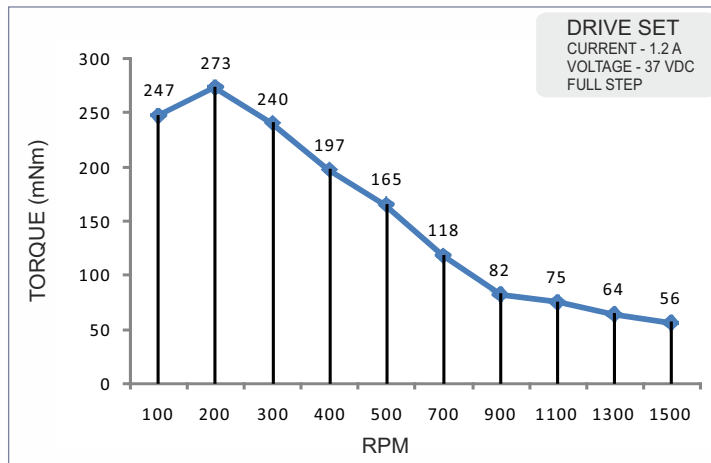
■ Model No : BH 42 SH 33 - 0606 A (1.58Kgcm)



■ Model No : BH 42 SH 33 - 1006 A (1.58Kgcm)



■ Model No : BH 42 SH 38 - 1206 A (2.59Kgcm)

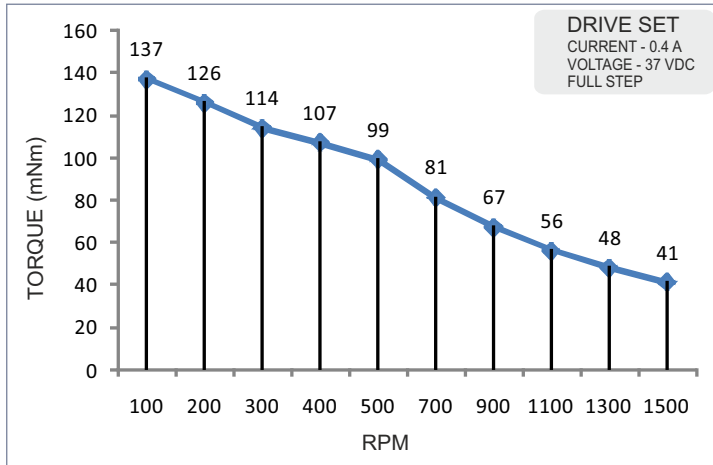




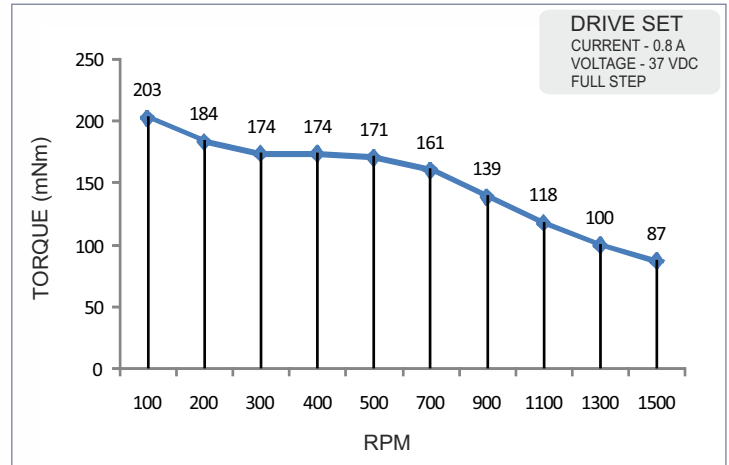
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SIZE NEMA 17 (42MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

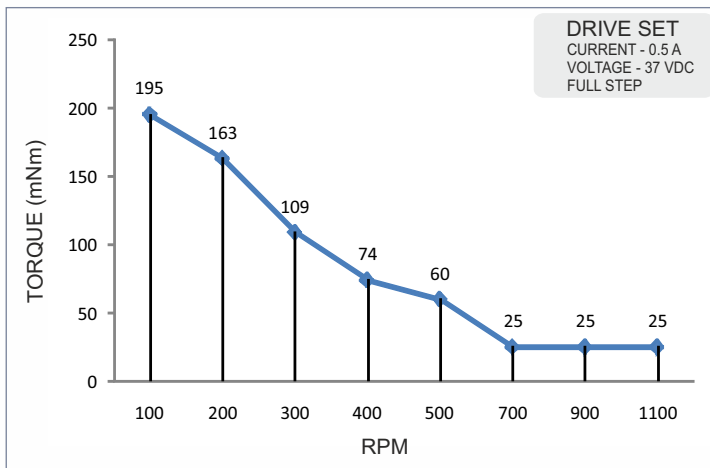
■ Model No : BH 42 SH 38 - 0406 A (2.59Kgcm)



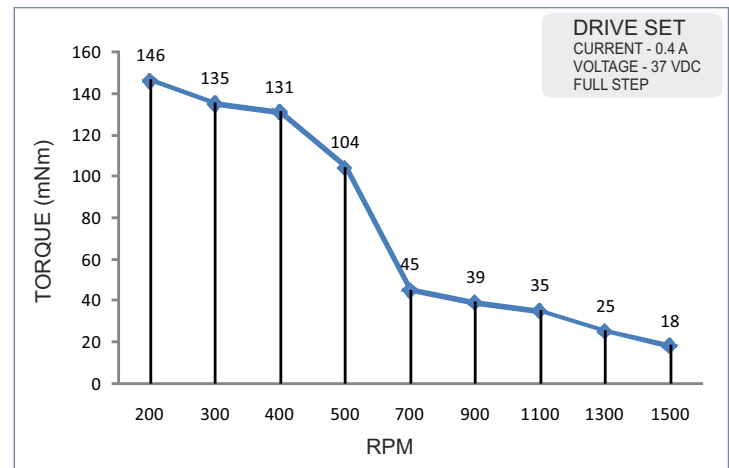
■ Model No : BH 42 SH 38 - 0806 A (2.59Kgcm)



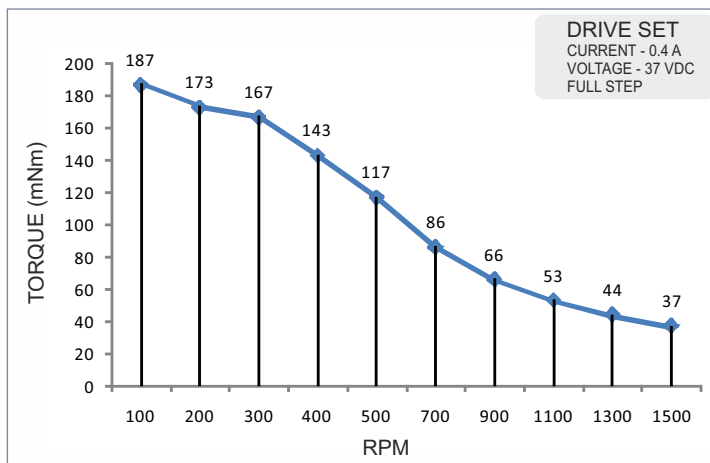
■ Model No : BH 42 SH 40 - 0506 A (5 Kgcm)



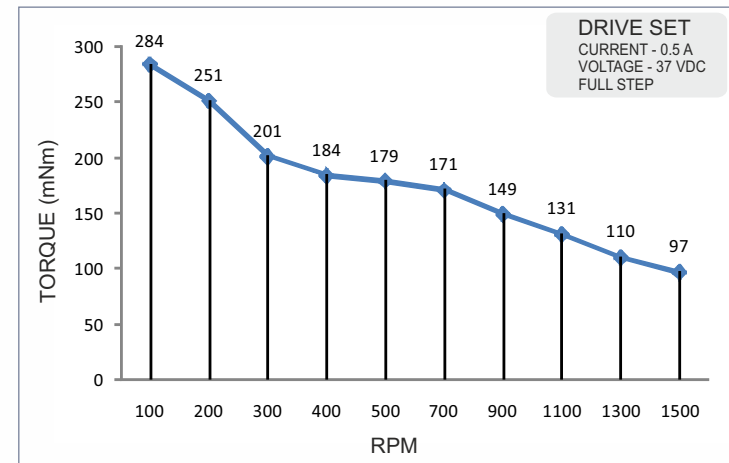
■ Model No : BH 42 SH 40 - 0406 A (4.3 Kgcm)



■ Model No : BH 42 SH 47 - 0406 A (3.17Kgcm)



■ Model No : BH 42 SH 47 - 0506 A (6.3 Kgcm)

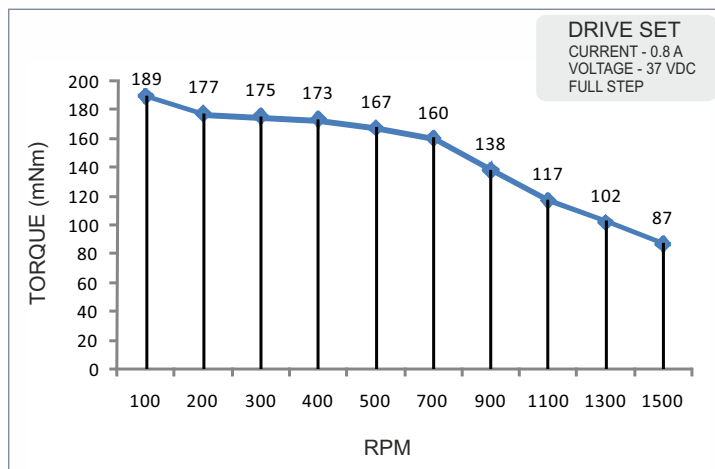




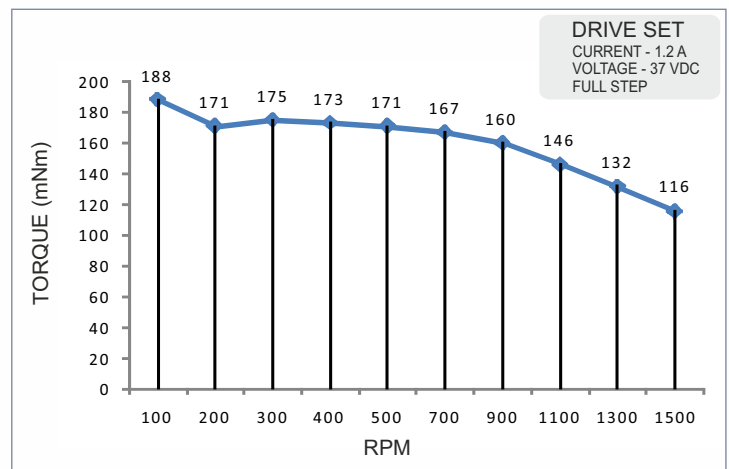
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SIZE NEMA 17 (42MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

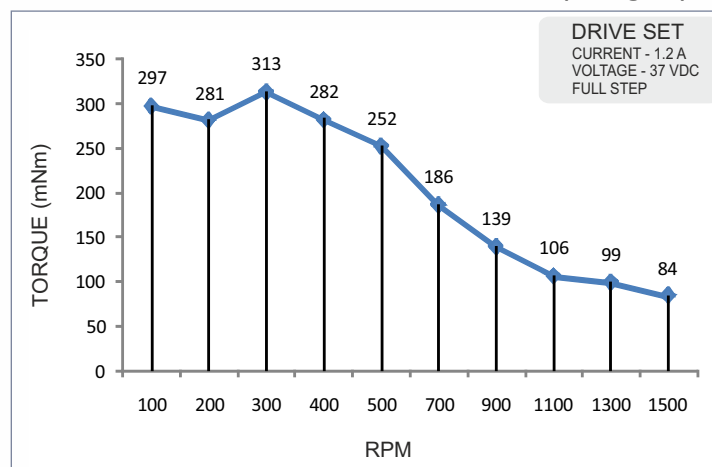
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■ Model No : BH 42 SH 47 - 1206 A (3.17Kgcm)



■ Model No : BH 42 SH 60 - 1206 A (6.5Kgcm)



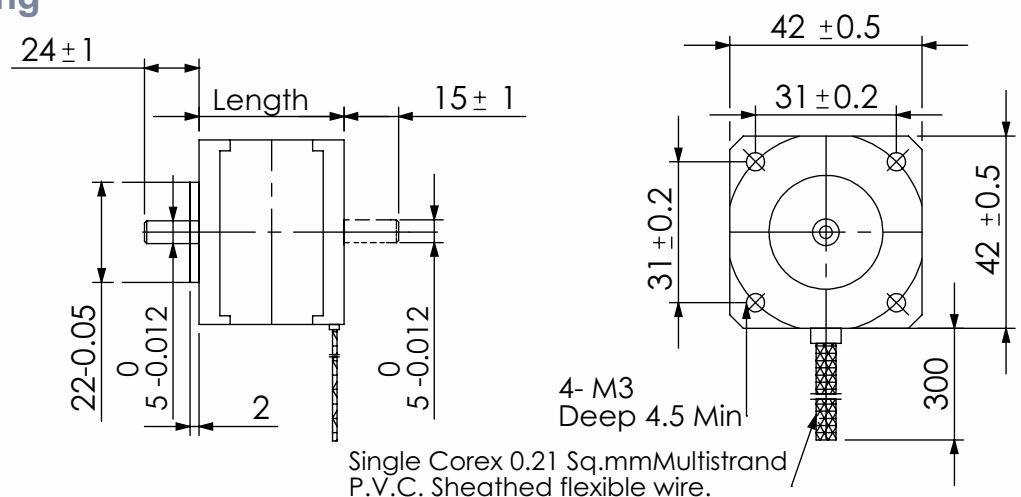
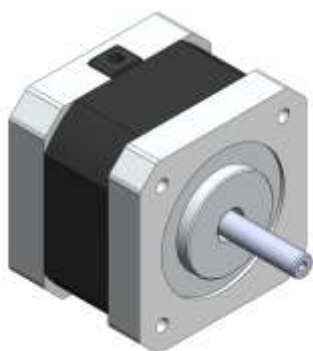


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SIZE NEMA 17 (42MM) (SQUARE FRAME) BIPOLAR WINDING MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
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
2	BH 42 SH 25 - 0404 A	12 - 24	12	0.4	30	14.14	1.2	0.12	4	35	0.117	25
1	BH 42 SH 31 - 0904 A	12 - 24	12	0.4	30	22	2.6	0.26	4	35	0.22	31
2	BH 42 SH 33 - 0404 A	12 - 24	12	0.4	30	22	2.6	0.26	4	35	0.22	33
2	BH 42 SH 33 - 1334 A	12 - 24	2.8	1.33	2.1	1.6	2.2	0.22	4	35	0.27	33
3	BH 42 SH 33 - 1304 A	12 - 24	11.7	1.3	9	7.45	3.0	0.3	4	35	0.27	33
4	BH 42 SH 33 - 1704 A	12 - 24	1.05	1.7	0.6	0.95	2.0	0.2	4	35	0.27	33
5	BH 42 SH 33 - 0604 A	12 - 24	4.39	0.6	7.28	5.82	1.2	0.12	4	35	0.27	33
6	BH 42 SH 38 - 0404 A	12 - 24	1.9	0.4	54	70	3.8	0.38	4	54	0.28	38
6	BH 42 SH 38 - 0504 A	12 - 24	1.9	0.5	3.8	5.65	2.4	0.24	4	54	0.28	38
7	BH 42 SH 38 - 1684 A	12 - 24	3.44	1.68	2.1	3.28	3.6	0.36	4	54	0.28	38
8	BH 42 SH 38 - 1004 A	12 - 24	4.6	1	4.6	5.2	3.5	0.35	4	54	0.28	38
9	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
10	BH 42 SH 40 - 0504 A	18 - 37	17.75	0.5	35.5	40	5.0	0.5	4	68	0.368	40
11	BH 42 SH 40 - 1204 A	12 - 24	3.36	1.2	2.86	4.65	4.0	0.40	4	68	0.360	40
12	BH 42 SH 47 - 1004 A	12 - 24	7.8	1	7.8	9.5	4.2	0.42	4	68	0.365	47
13	BH 42 SH 47 - 1704 A	12 - 24	2.89	1.7	1.7	2.5	4.4	0.44	4	68	0.365	47
14	BH 42 SH 47 - 1504 A	12 - 24	4.2	1.5	2.8	5.7	5.5	0.55	4	68	0.365	47
15	BH 42 SH 51 - 1504 A	12 - 24	4.86	1.5	3.2	6	7	0.7	4	84	0.410	51
15	BH 42 SH 60 - 0854 A	24 - 50	10.2	0.85	12	18	9	0.9	4	102	0.487	60

◆ Mechanical Drawing



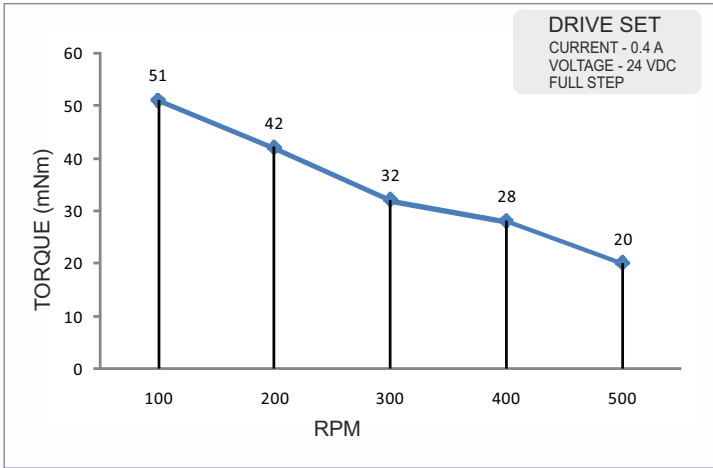
All Dimensions are in mm.



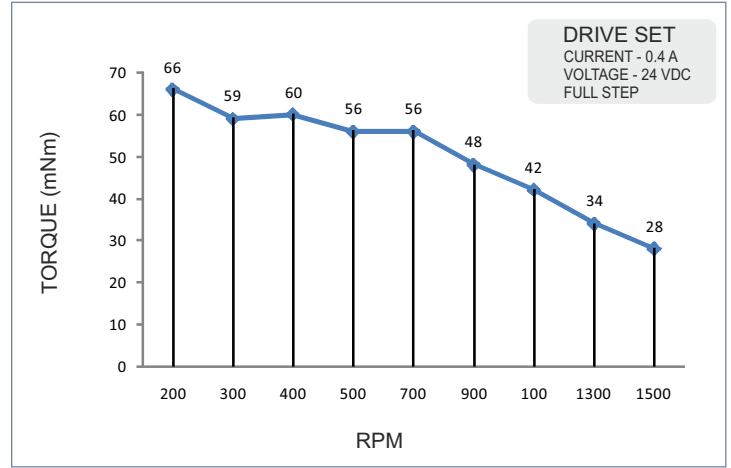
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SIZE NEMA 17 (42MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

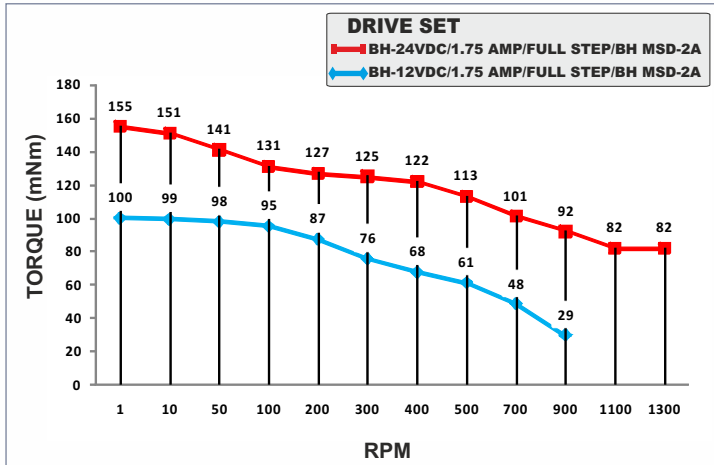
Model No : BH 42 SH 20 - 0404 A (0.065 Kgcm)



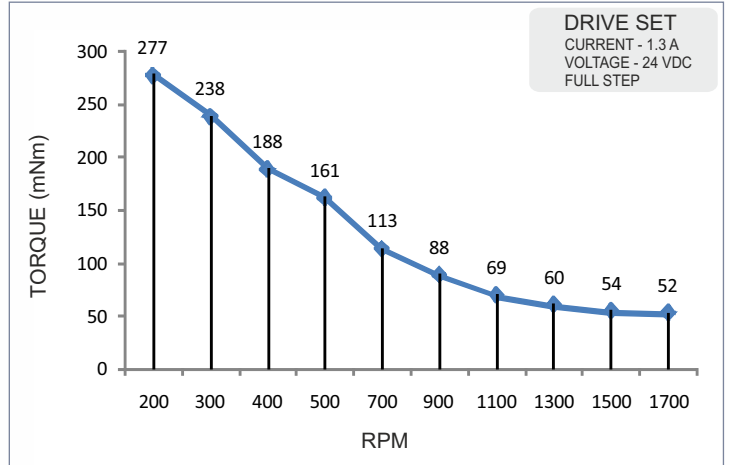
Model No : BH 42 SH 25 - 0404 A (0.12 Kgcm)



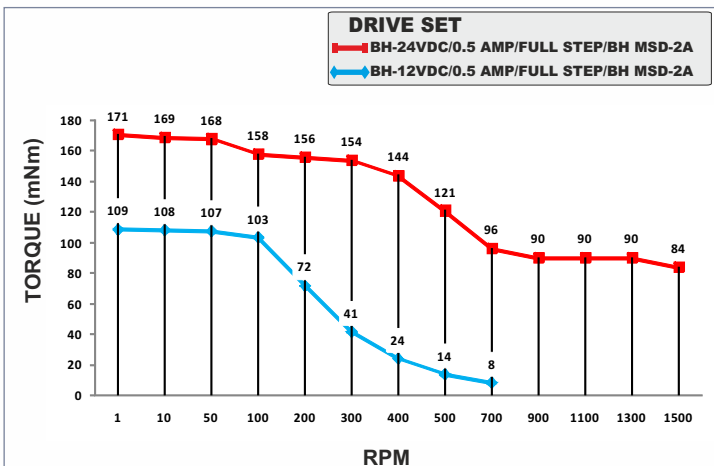
Model No : BH 42 SH 33 - 1704 A (2.0 Kgcm)



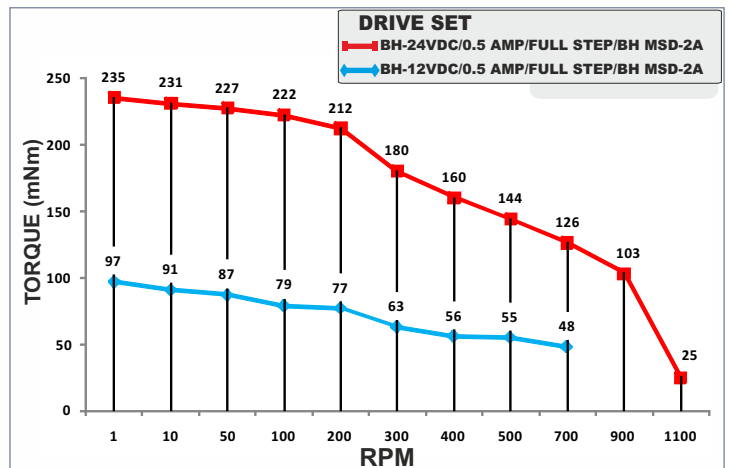
Model No : BH 42 SH 33 - 1304 A (3.0 Kgcm)



Model No : BH 42 SH 33 - 0604 A (1.2 Kgcm)



Model No : BH 42 SH 33 - 0404 A (2.6 Kgcm)

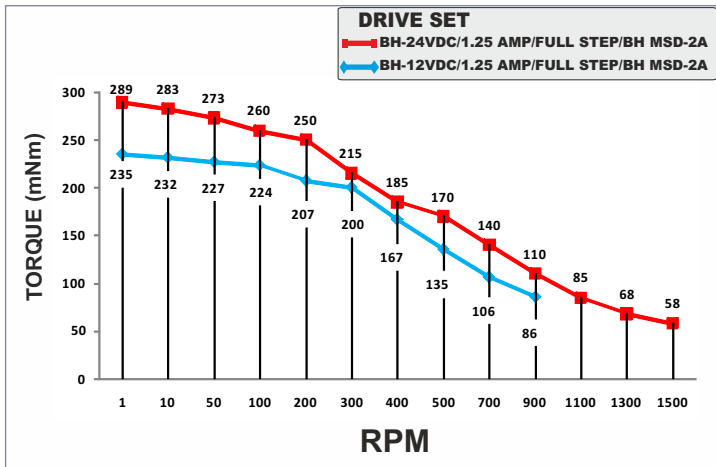




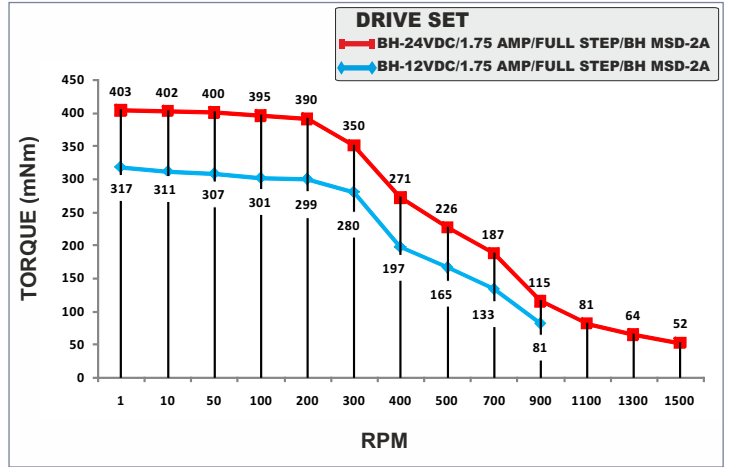
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**SIZE NEMA 17 (42MM)
(SQUARE FRAME)
BIPOLAR MOTORS - GRAPH**

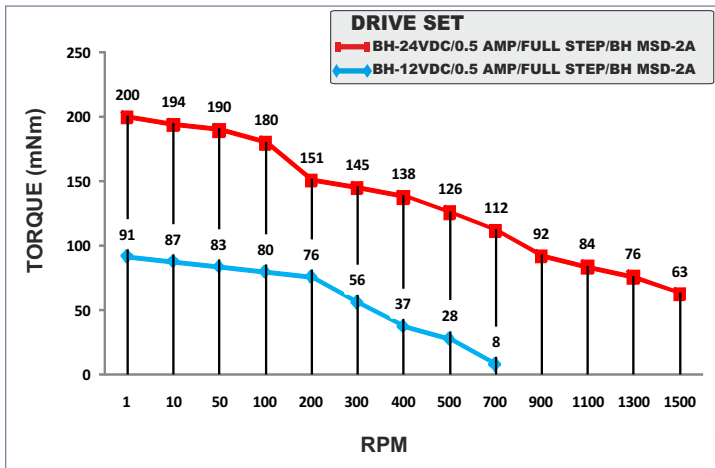
■ Model No : BH 42 SH 33 - 1334 A (2.2 Kgcm)



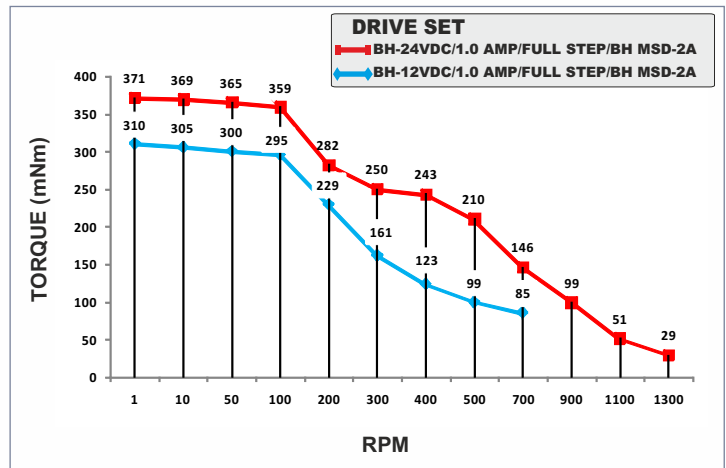
■ Model No : BH 42 SH 38 - 1684 A (3.6 Kgcm)



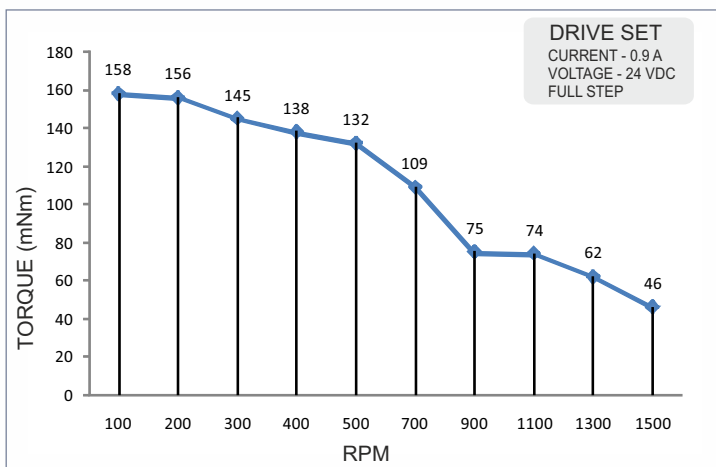
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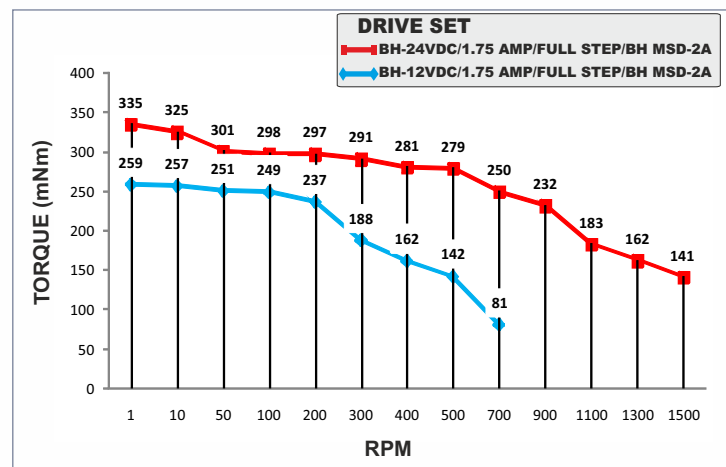
■ Model No : BH 42 SH 38 - 1004 A (3.5 Kgcm)



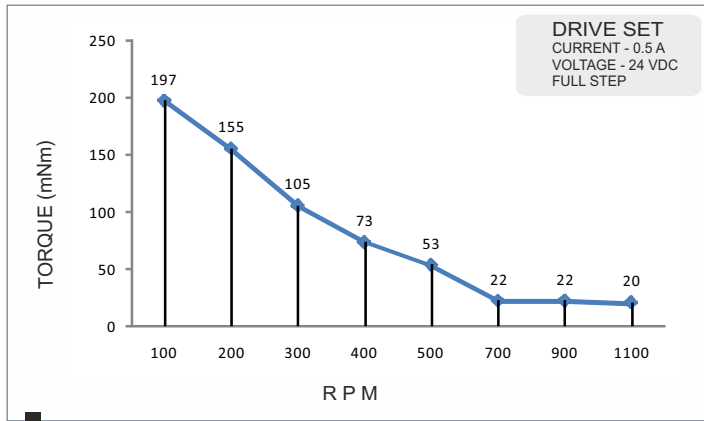
Model No : BH 42 SH 31 - 0904 A (2.6 Kgcm)



■ Model No : BH 42 SH 40 - 1704 A (4.5 Kgcm)



■ Model No : BH 42 SH 40 - 0504 A (5.0 Kgcm)



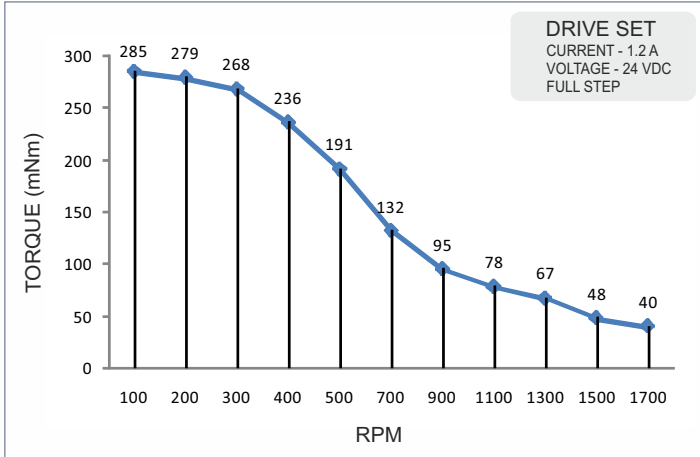
COMMITTED TO PRECISION

SIZE NEMA 17 (42MM)

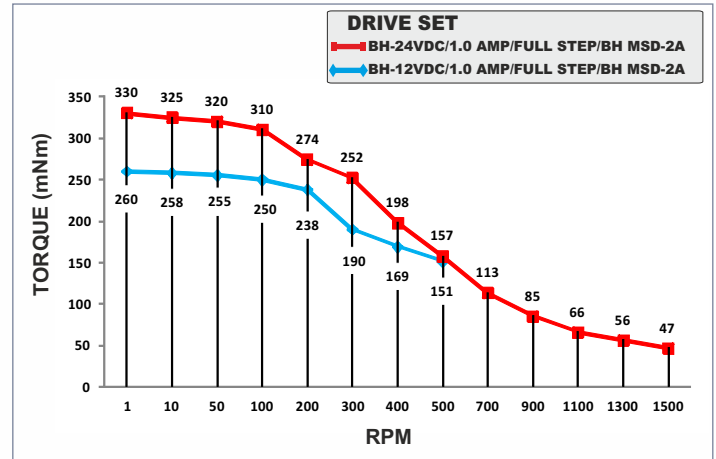
(SQUARE FRAME)

BIPOLAR MOTORS - GRAPH

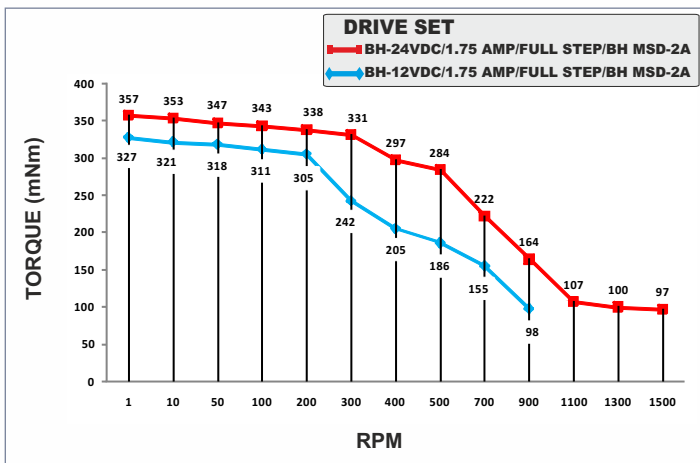
■ Model No : BH 42 SH 40 - 1204 A (4.2 Kgcm)



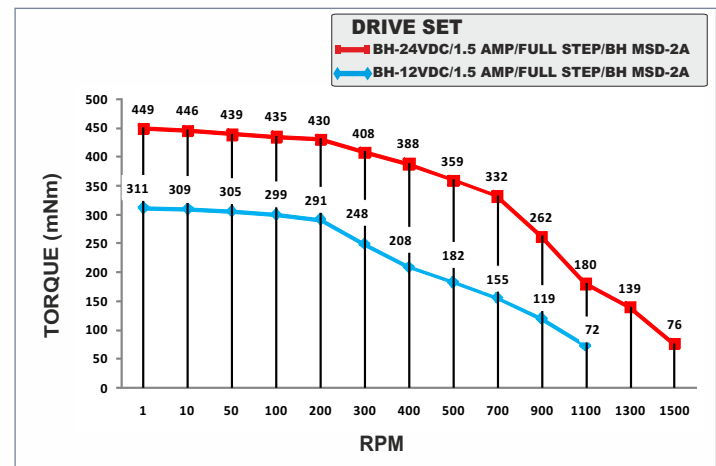
■ Model No : BH 42 SH 47 - 1004 A (4.2 Kgcm)



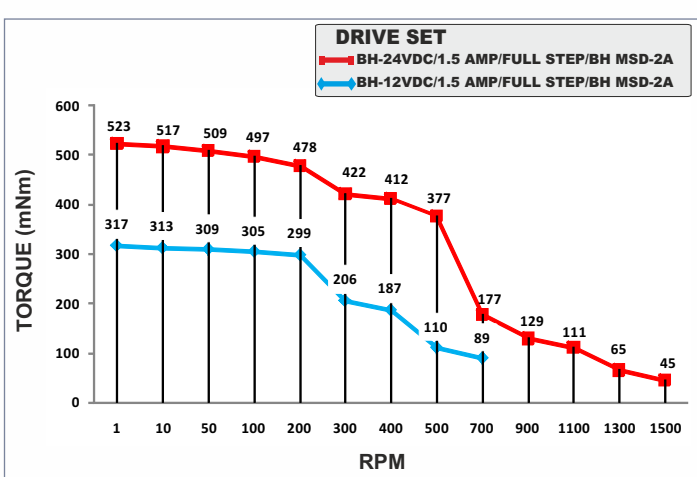
■ Model No : BH 42 SH 47 - 1704 A (4.4 Kgcm)



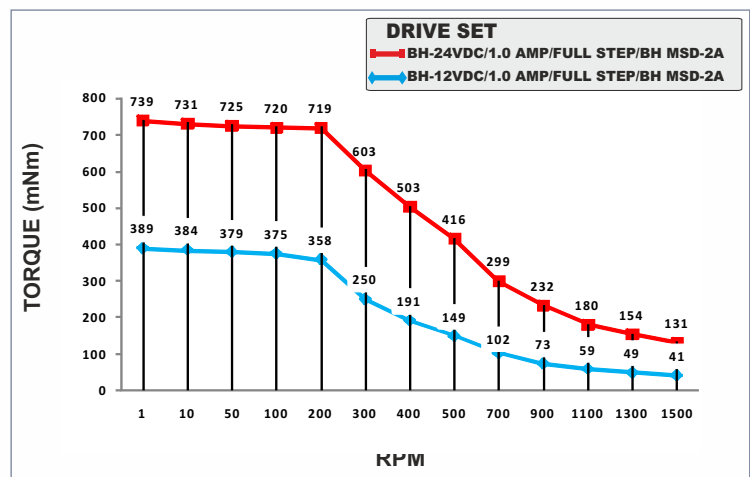
■ Model No : BH 42 SH 47 - 1504 A (5.5 Kgcm)



Model No : BH 42 SH 51 - 1504 A (7.0 Kgcm)



■ Model No : BH 42 SH 60 - 0854 A (9.0 Kgcm)





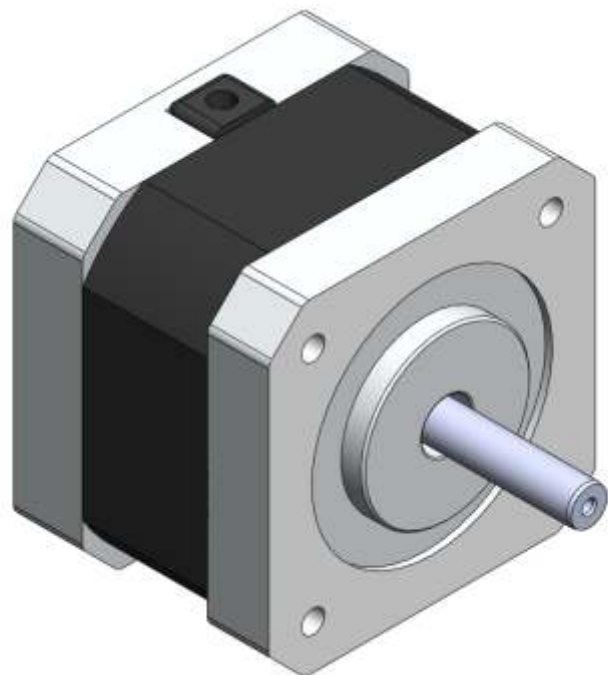
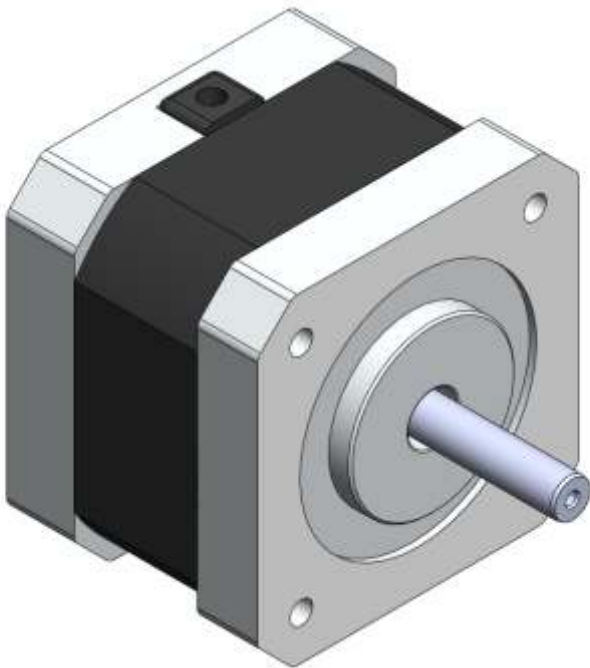
SIZE NEMA 17 & 23 (42 & 57MM)

2 - phase Stepping Motor

1.8° High Torque Hybrid Stepper Motor

MEDICA MOTORS

Stepper Motor



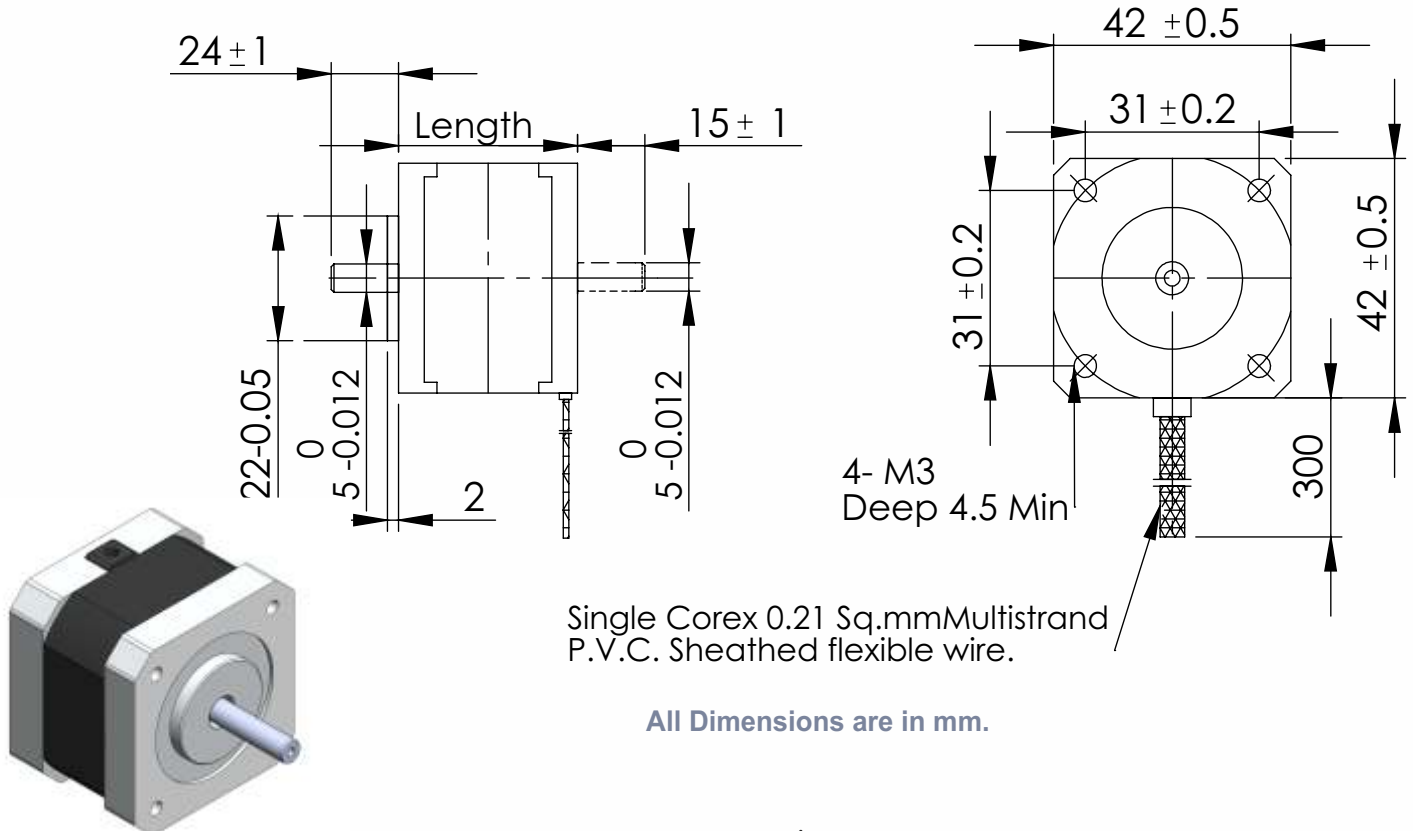


COMMITTED TO PRECISION

SIZE NEMA 17 (42MM)
(SQUARE FRAME)
UNIPOLAR WINDING MEDICA MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
1	BH 42 SH 33 - 0316 A-B6	12 - 37	11.94	0.31	38.5	16.18	2.0	0.2	6	35	0.22	33
3	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
4	BH 42 SH 33 - 1006 A-B6	12 - 37	4.2	1	4.2	2.0	2.35	0.235	6	35	0.22	33
7	BH 42 SH 38 - 1206-B10	12 - 37	4.2	1.2	3.5	1.6	3.01	0.301	6	54	0.28	38
12	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
14	BH 42 SH 60 - 1206 A-B12	18 - 37	7.22	1.2	6.02	3.87	5.1	0.51	6	102	0.5	60

◆ Mechanical Drawing



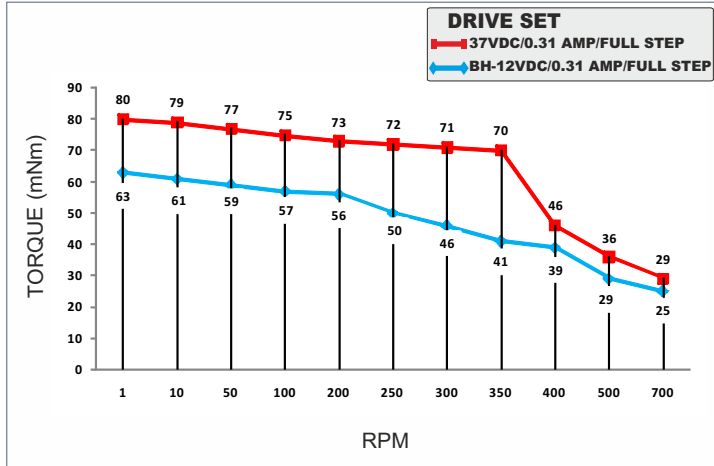


COMMITTED TO PRECISION

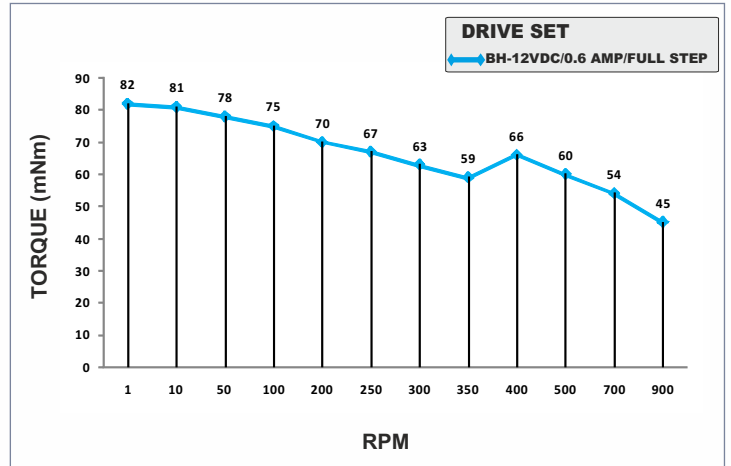
SIZE NEMA 17 (42MM) (SQUARE FRAME)

UNIPOLAR MEDICA MOTORS - GRAPH

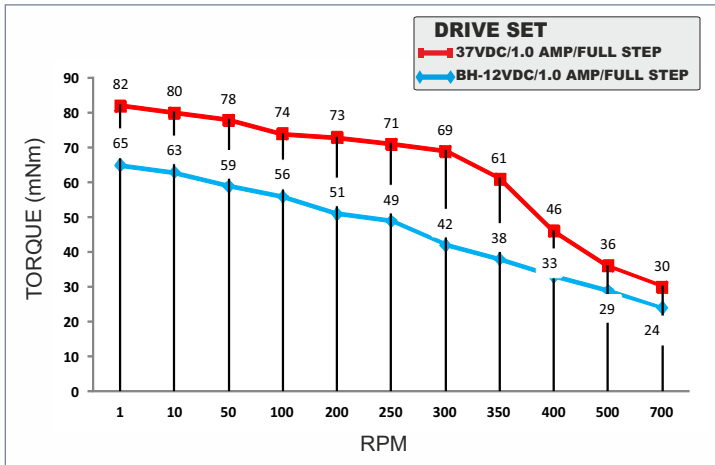
■ Model No : BH 42 SH 33 - 0316 A-B6 (2.0Kgcm)



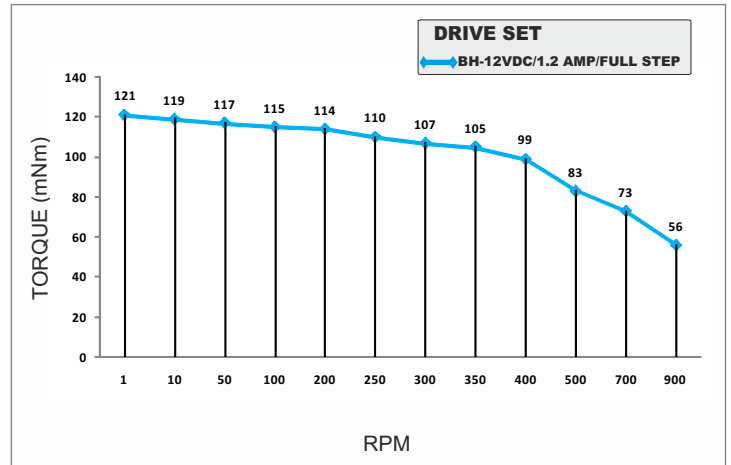
■ Model No : BH 42 SH 33 - 0606 A-B6(2.12 Kgcm)



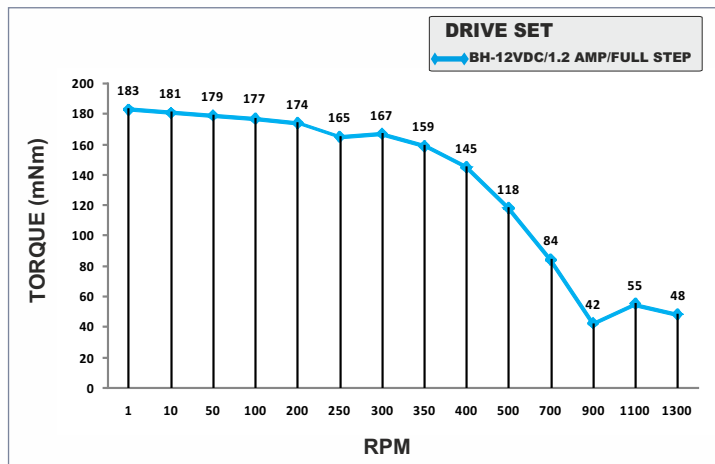
■ Model No : BH 42 SH 33 - 1006 A-B6 (2.35 Kgcm)



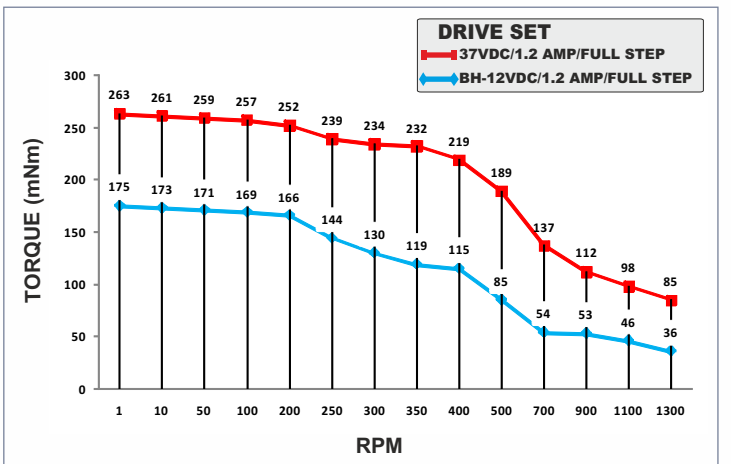
■ Model No : BH 42 SH 38 - 1206 A-B10(3.01Kgcm)



■ Model No : BH 42 SH 47 - 1206 A-B12(4.55Kgcm)



■ Model No : BH 42 SH 60 - 1206 A-B12(5.1Kgcm)



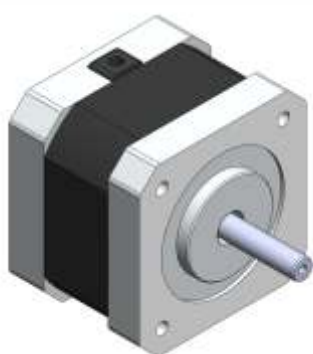
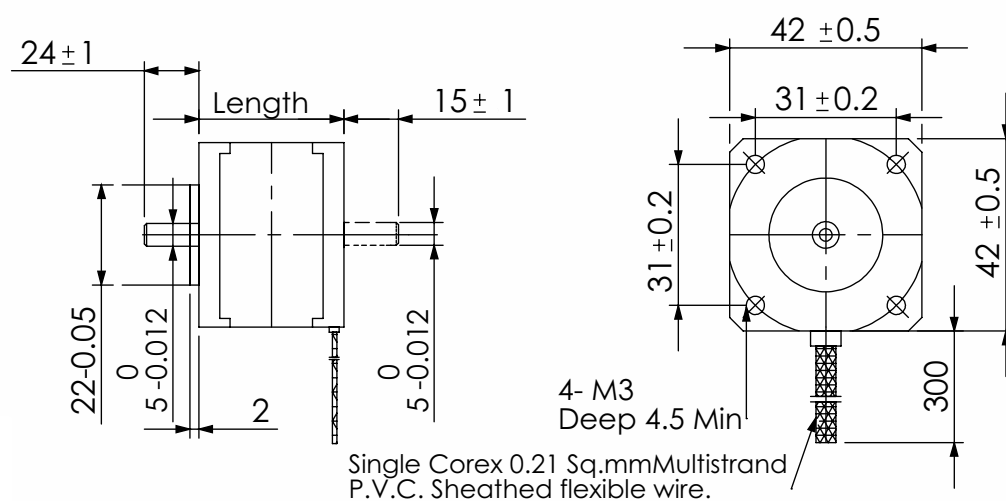


COMMITTED TO PRECISION

SIZE NEMA 17 (42MM) (SQUARE FRAME) BIPOLAR WINDING MEDICA MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		$g\text{-cm}^2$	Kg	mm
2	BH 42 SH 33 - 1334 A-B6	12 - 24	2.8	1.33	2.1	2.19	1.8	0.18	4	35	0.27	33
2	BH 42 SH 33 - 0404 A-B6	12 - 24	12	0.4	30	27.3	1.85	0.185	4	35	0.22	33
8	BH 42 SH 38 - 1004 A-B10	12 - 24	4.6	1	4.6	5.26	2.3	0.23	4	54	0.27	38
7	BH 42 SH 38 - 1684 A-B10	12 - 24	2.86	1.68	2.05	3.08	3.2	0.32	4	54	0.27	38
11	BH 42 SH 40 - 1204 A-B10	12 - 24	3.52	1.2	2.1	4.19	2.7	0.27	4	68	0.360	40
9	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
13	BH 42 SH 47 - 1704 A-B12	12 - 24	2.89	1.7	1.7	2.87	3.8	0.38	4	68	0.365	47
12	BH 42 SH 47 - 1004 A-B12	12 - 24	7.8	1	7.8	9.52	4.0	0.4	4	68	0.365	47
14	BH 42 SH 47 - 1504 A-B12	12 - 24	4.2	1.5	2.8	5.95	4.12	0.412	4	68	0.365	47
15	BH 42 SH 51 - 1504 A-B12	12 - 24	4.86	1.5	3.2	6.15	4.5	0.45	4	84	0.410	51
15	BH 42 SH 60 - 0854 A-B12	24 - 48	10.2	0.85	12	17.23	4.8	0.48	4	102	0.487	60

◆ Mechanical Drawing



All Dimensions are in mm.



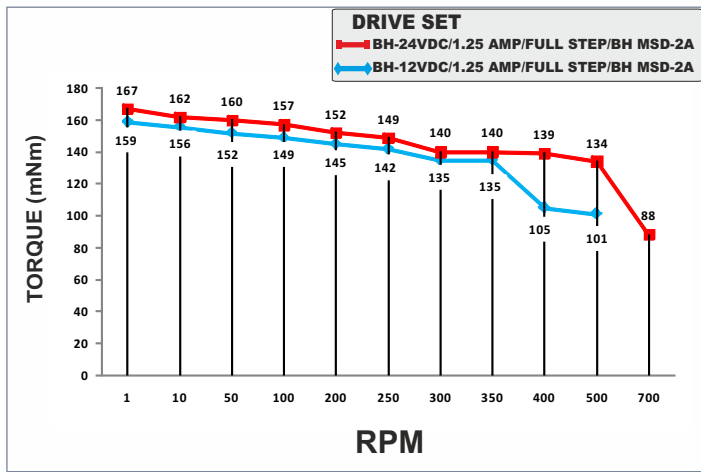
COMMITTED TO PRECISION

SIZE NEMA 17 (42MM)

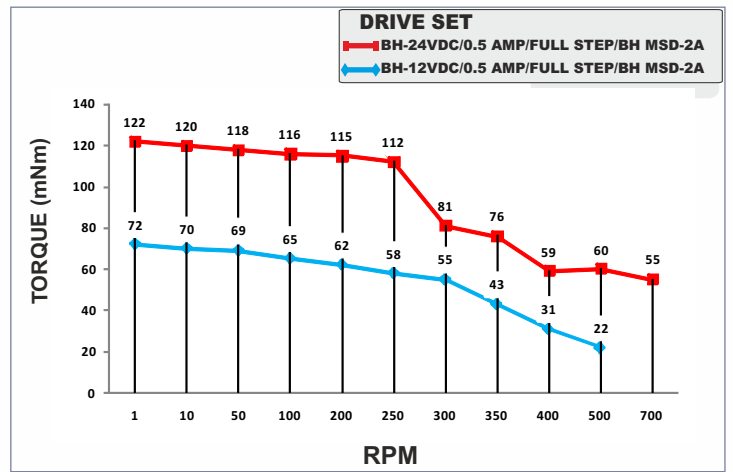
(SQUARE FRAME)

BIPOLAR MEDICA MOTORS - GRAPH

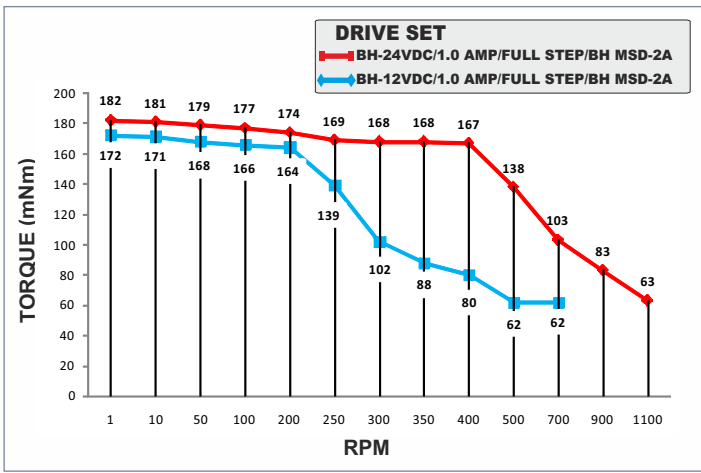
Model No : BH 42 SH 33 - 1334 A-B6(1.8 Kgcm)



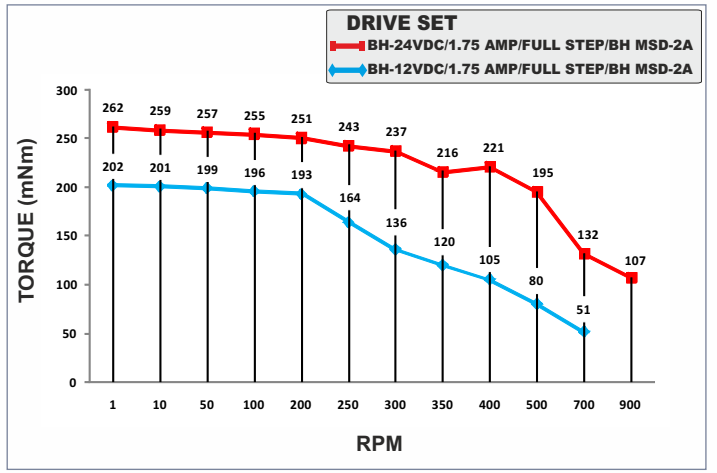
Model No : BH 42 SH 33 - 0404 A-B6(1.85 Kgcm)



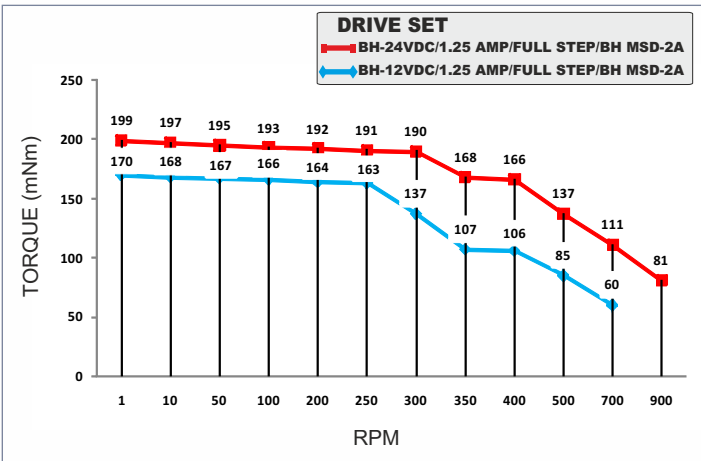
Model No : BH 42 SH 38 - 1004 A-10 (2.3 Kgcm)



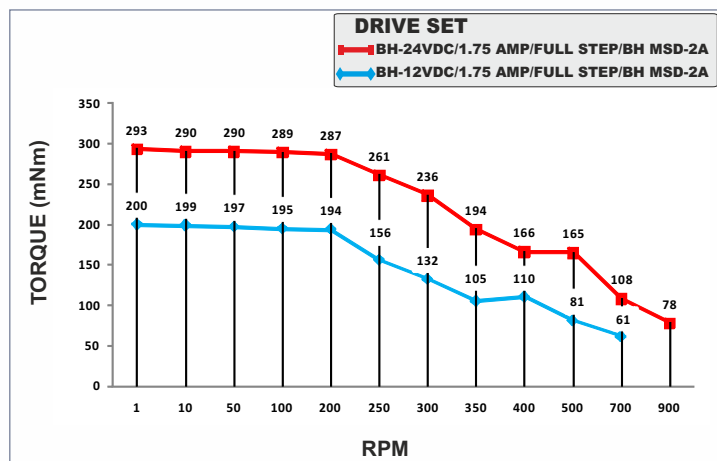
Model No : BH 42 SH 38 - 1684 A (3.2 Kgcm)



Model No : BH 42 SH 40 - 1204 A (2.7 Kgcm)



Model No : BH 42 SH 40 - 1704 A (3.7 Kgcm)





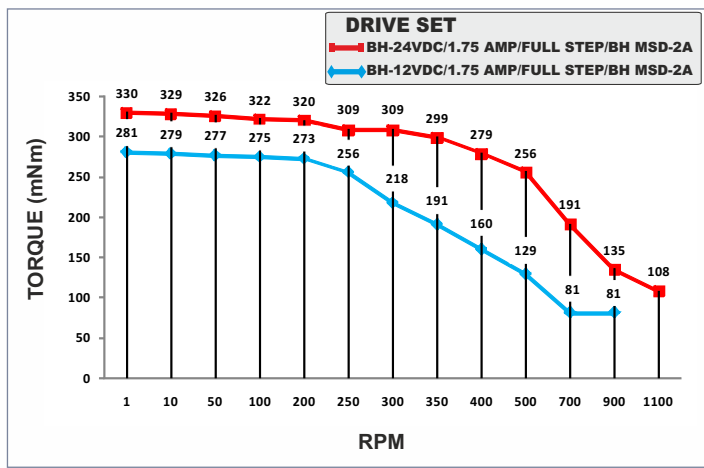
COMMITTED TO PRECISION

SIZE NEMA 17 (42MM)

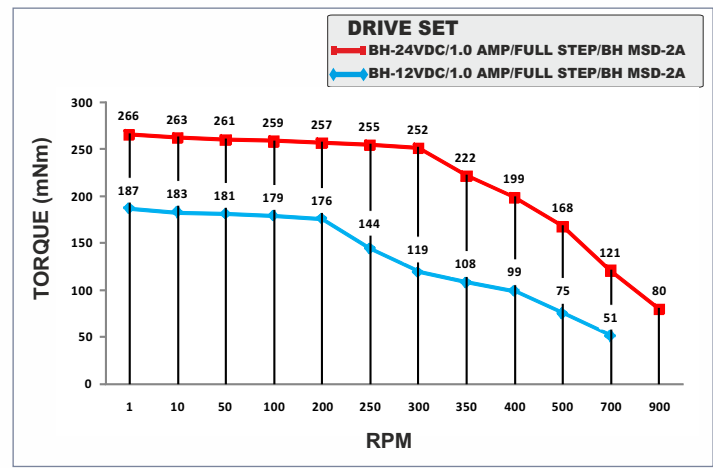
(SQUARE FRAME)

BIPOLAR MEDICA MOTORS - GRAPH

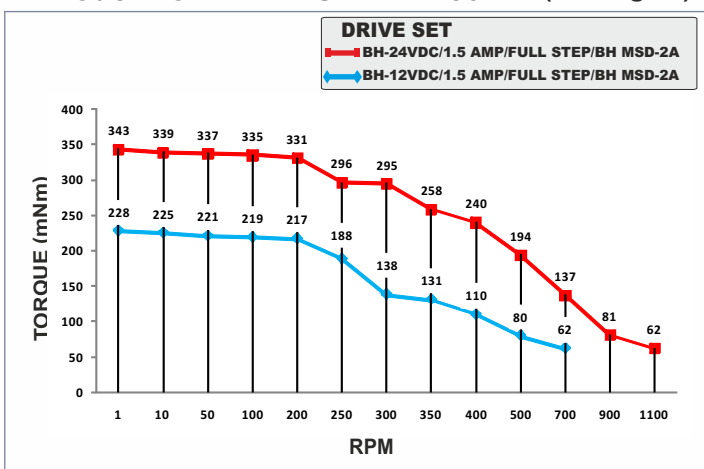
■ Model No : BH 42 SH 47 - 1704 A (3.8 Kgcm)



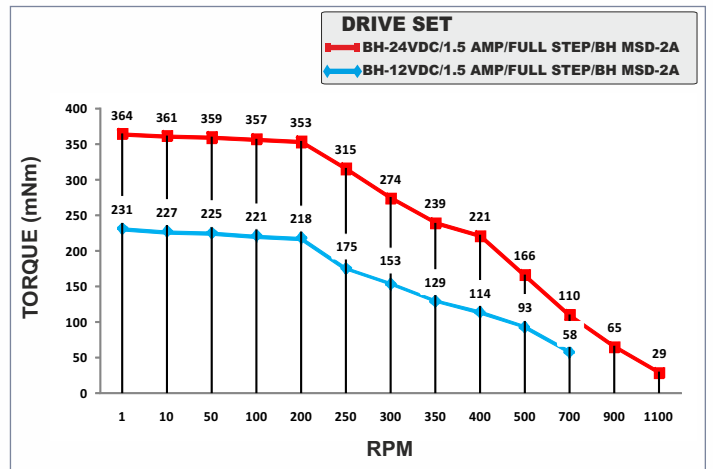
Model No : BH 42 SH 47 - 1004 A (4.0 Kgcm)



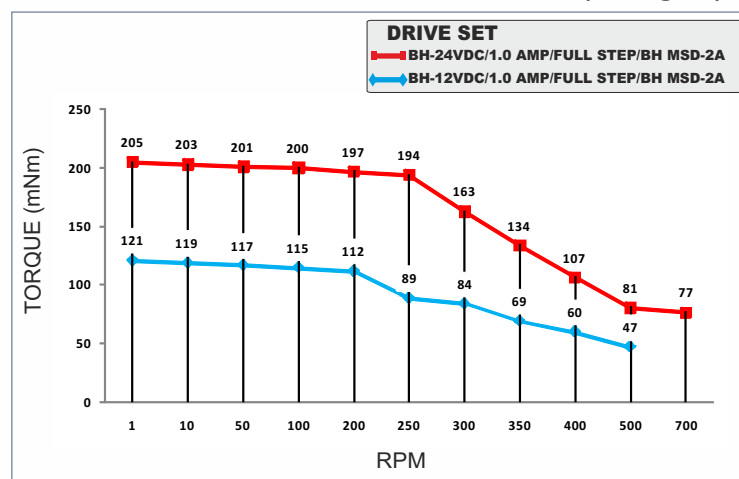
■ Model No : BH 42 SH 47 - 1504 A (4.12 Kgcm)



Model No : BH 42 SH 51 - 1504 A (4.5 Kgcm)

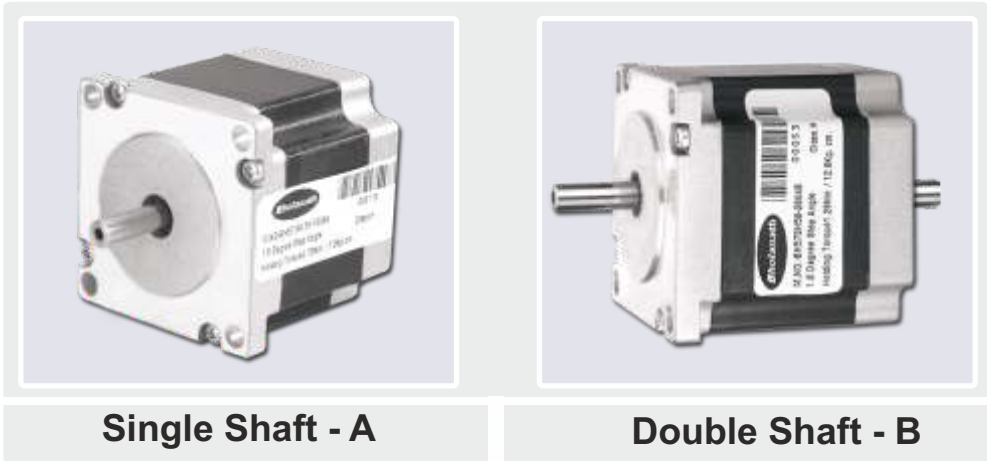


■ Model No : BH 42 SH 60 - 0854 A (4.8 Kgcm)





SIZE NEMA 23 (57MM) 2 - phase Stepping Motor 1.8° High Torque Hybrid Stepper Motor



Single Shaft - A

Double Shaft - B

Characteristics

Step Angle
1.8°

Step Angle Accuracy
± 3Arc Minute

Insulation Class
H

Ambient Temperature
- 20°C + 50°C

Temperature Rise - 80° C Max.
(Rated Current Phase 2 ON)

Insulation Resistance
100 M Ohms Min.500 VDC

Dielectric Strength
500 VAC For One Minute

Shaft Radial Play
0.02 Max. Play (450 G Load)

Shaft Axial Play
0.08 Max. Play (450 G Load)

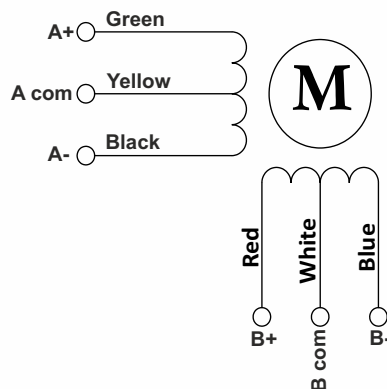
Max.Radial Force
75 N (20MM From Front Flange)

Max.Axial Force
15 N

Connection

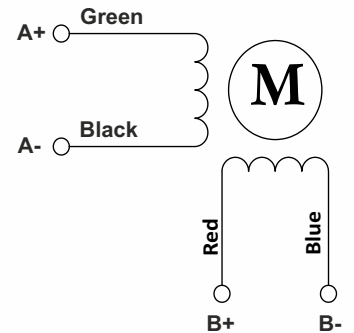
Lead No	Color	Gauge	Function
1	Green	UL 1430 SWG 34	Phase A
2	Black	UL 1430 SWG 34	Phase A-
3	Yellow	UL 1430 SWG 34	Common
4	Red	UL 1430 SWG 34	Phase B
5	Blue	UL 1430 SWG 34	Phase B-
6	White	UL 1430 SWG 34	Common

Wiring Diagram



(Unipolar Connection)
6 LEAD

Wiring Diagram



(Bipolar Connection)
4 LEAD

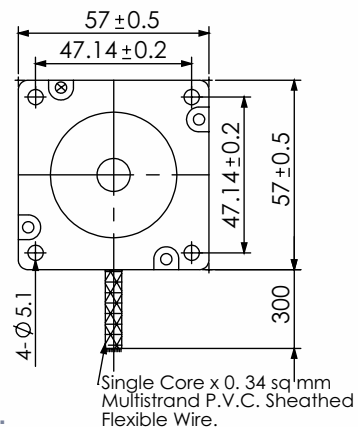
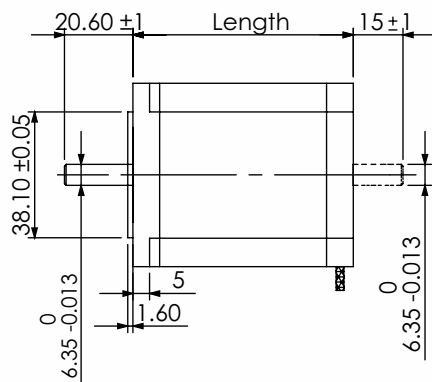


COMMITTED TO PRECISION

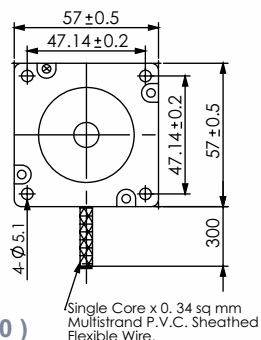
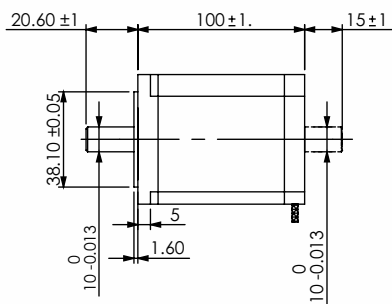
SIZE NEMA 23 (57MM) (SQUARE FRAME) UNIPOLAR WINDING MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
1	BH 57 SH 41 - 1006 A	18 - 37	5.7	1	5.7	3.9	3.9	0.39	6	120	0.46	41
2	BH 57 SH 41 - 2006 A	18 - 37	2.9	2	1.45	1.05	3.9	0.39	6	120	0.46	41
3	BH 57 SH 41 - 3006 A	18 - 37	1.95	3	0.65	0.7	3.9	0.39	6	120	0.46	41
4	BH 57 SH 51 - 1006 A	18 - 37	6.6	1	6.6	6.1	7.2	0.72	6	275	0.65	51
5	BH 57 SH 51 - 2006 A	18 - 37	3.4	2	1.7	2.1	7.2	0.72	6	275	0.65	51
6	BH 57 SH 51 - 3006 A	18 - 37	2.37	3	0.79	1	7.2	0.72	6	275	0.65	51
7	BH 57 SH 56 - 1006 A	18 - 37	7.4	1	7.4	7.5	9	0.9	6	300	0.74	56
8	BH 57 SH 56 - 2006 A	18 - 37	4.3	2	2.15	2.6	9	0.9	6	300	0.74	56
9	BH 57 SH 56 - 3006 A	18 - 37	2.34	3	0.78	1	9	0.9	6	300	0.74	56
10	BH 57 SH 76 - 1006 A	24 - 37	8.6	1	8.6	7.8	13.5	1.35	6	480	1.05	76
11	BH 57 SH 76 - 2006 A	24 - 37	4.4	2	2.2	3.3	13.5	1.35	6	480	1.05	76
12	BH 57 SH 76 - 3006 A	24 - 37	3	3	1	1.3	13.5	1.35	6	480	1.05	76
13	BH 57 SH 100-3006 A	24 - 37	9	3	3	6.5	25	2.5	6	600	1.5	100
14	BH 57 SH 100-4006 A	24 - 37	6.52	4	1.63	3.4	25	2.5	6	600	1.7	100

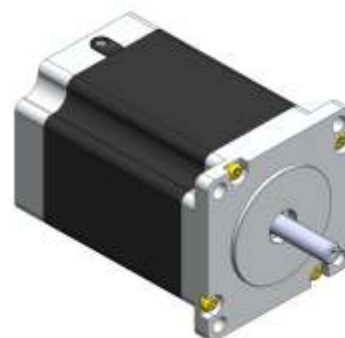
◆ Mechanical Drawing



All Dimensions are in mm.



(Model No - BH 57 SH 100/110)

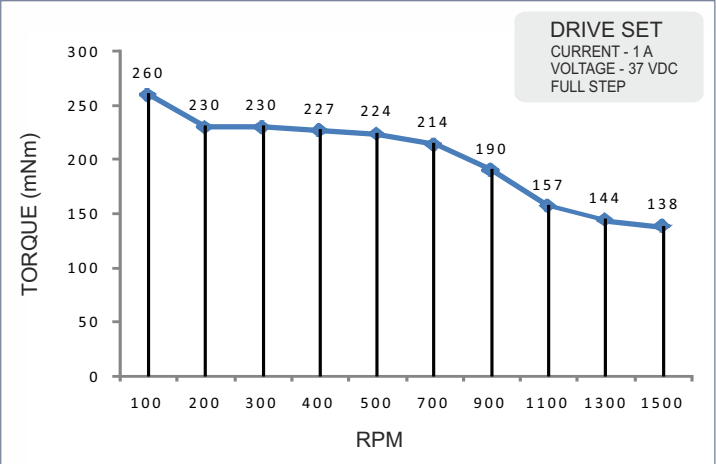




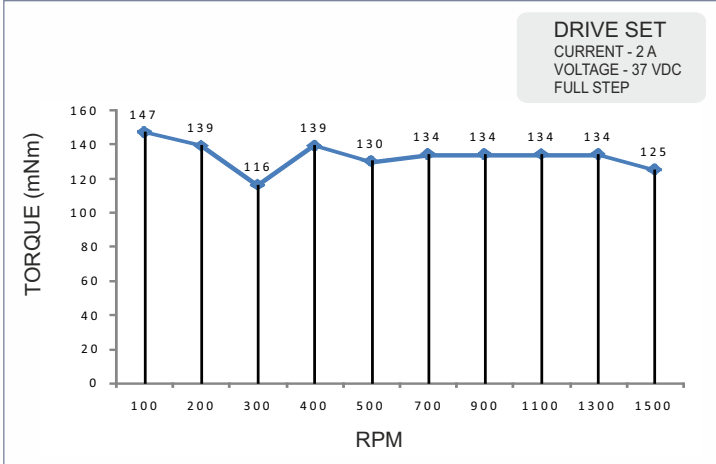
COMMITTED TO PRECISION

SIZE NEMA 23 (57MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

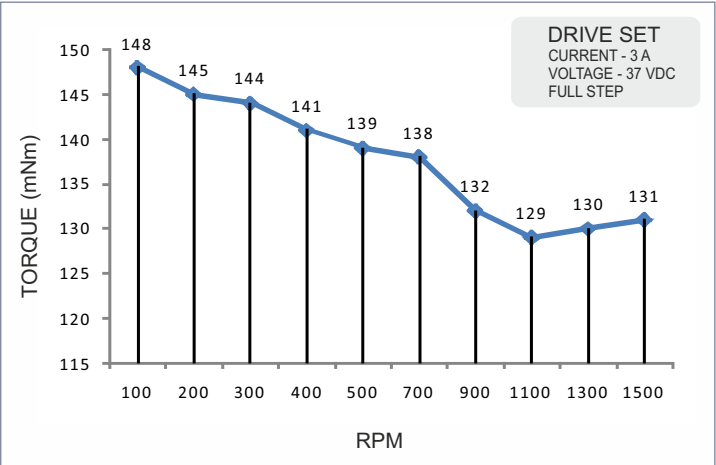
■ Model No : BH 57 SH 41 - 1006 A (3.9 Kgcm)



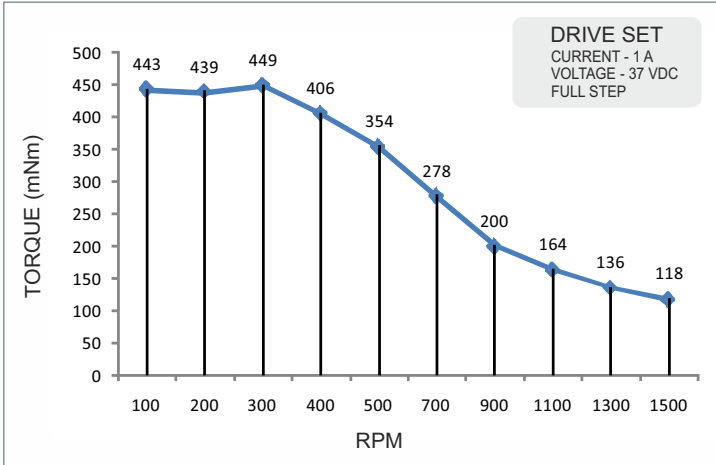
■ Model No : BH 57 SH 41 - 2006 A (3.9 Kgcm)



■ Model No : BH 57 SH 41 - 3006 A (3.9 Kgcm)



■ Model No : BH 57 SH 51 - 1006 A (7.2 Kgcm)

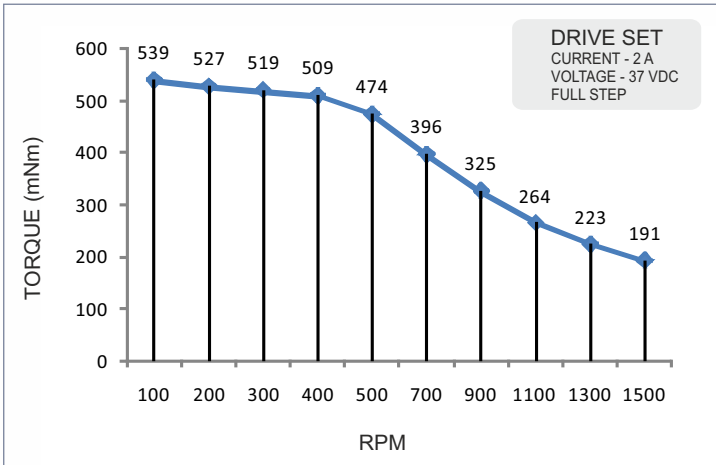




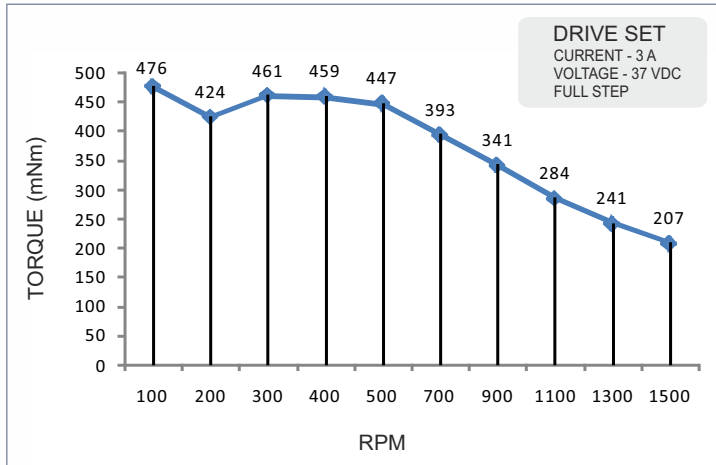
COMMITTED TO PRECISION

SIZE NEMA 23 (57MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

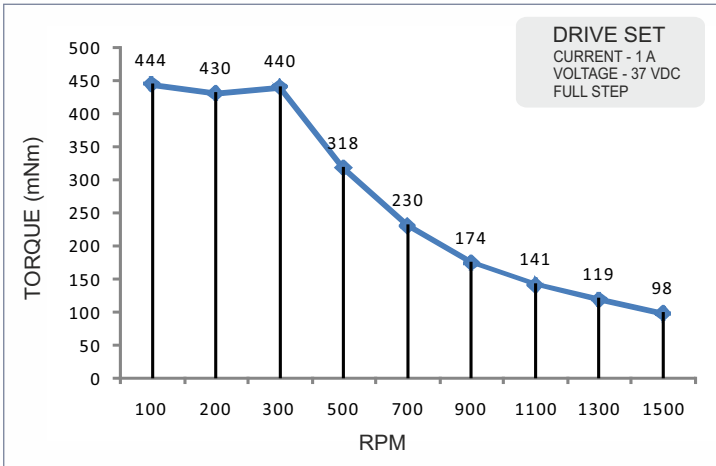
■ Model No : BH 57 SH 51 - 2006 A (7.2 Kgcm)



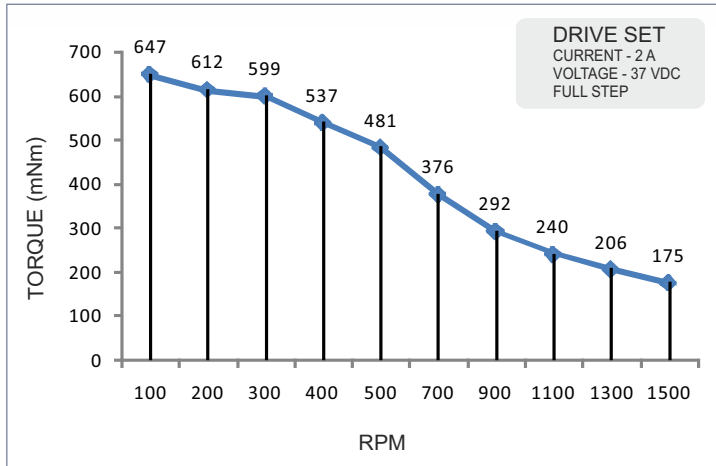
■ Model No : BH 57 SH 51 - 3006 A (7.2 Kgcm)



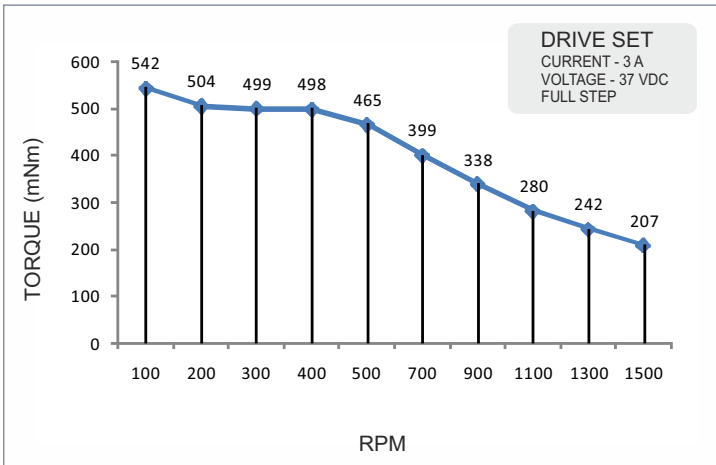
■ Model No : BH 57 SH 56 - 1006 A (9.0 Kgcm)



■ Model No : BH 57 SH 56 - 2006 A (9.0 Kgcm)



■ Model No : BH 57 SH 56 - 3006 A (9.0 Kgcm)

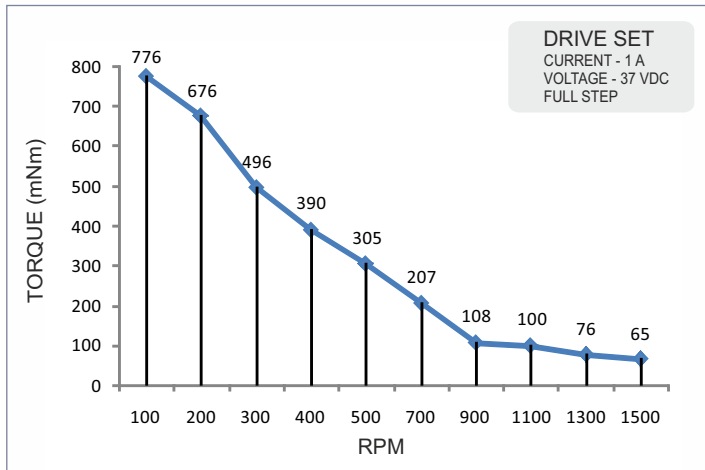




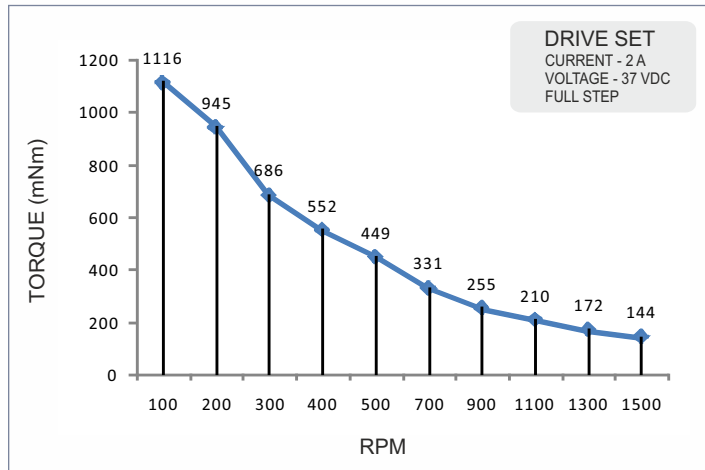
COMMITTED TO PRECISION

SIZE NEMA 23 (57MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

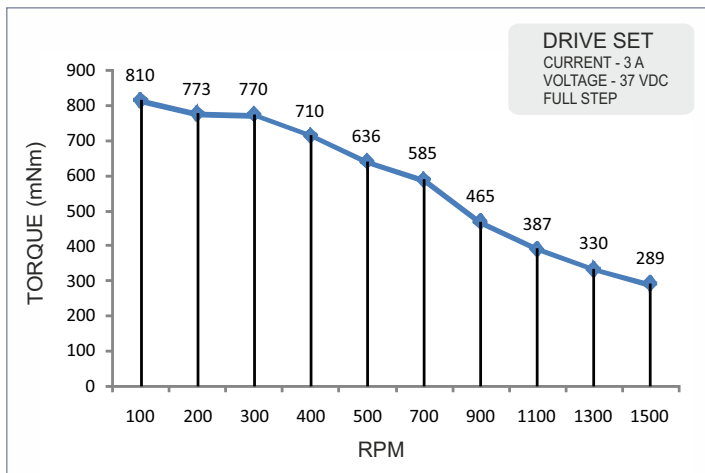
■ Model No : BH 57 SH 76 - 1006 A (13.5 Kgcm)



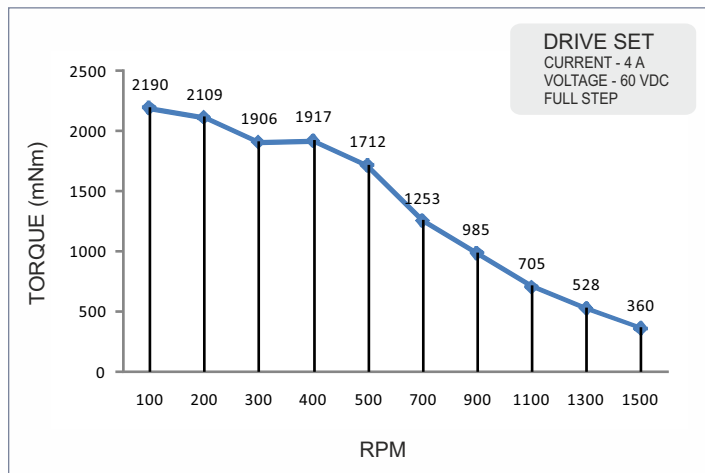
■ Model No : BH 57 SH 76 - 2006 A (13.5 Kgcm)



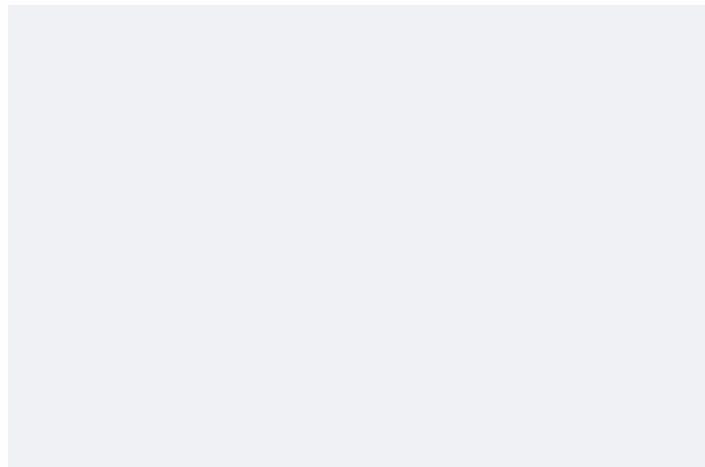
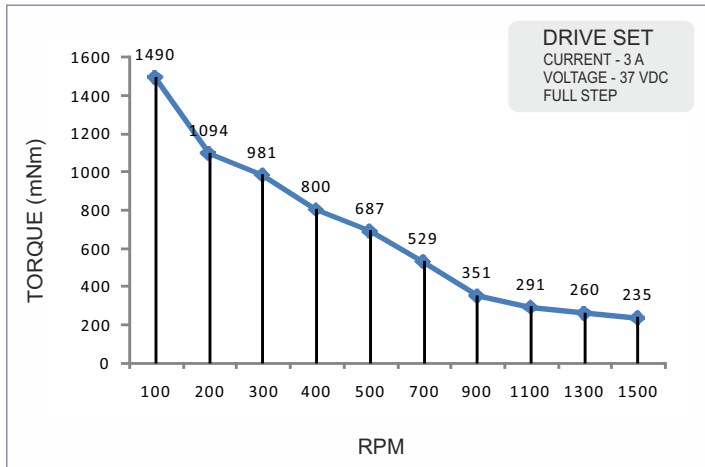
■ Model No : BH 57 SH 76 - 3006 A (13.5 Kgcm)



■ Model No : BH 57 SH 110 - 4006 A (25.0 Kgcm)



■ Model No : BH 57 SH 100 - 3006 A (25.0 Kgcm)



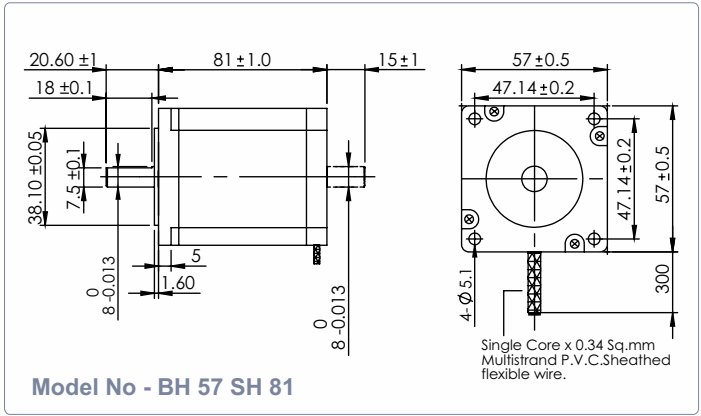
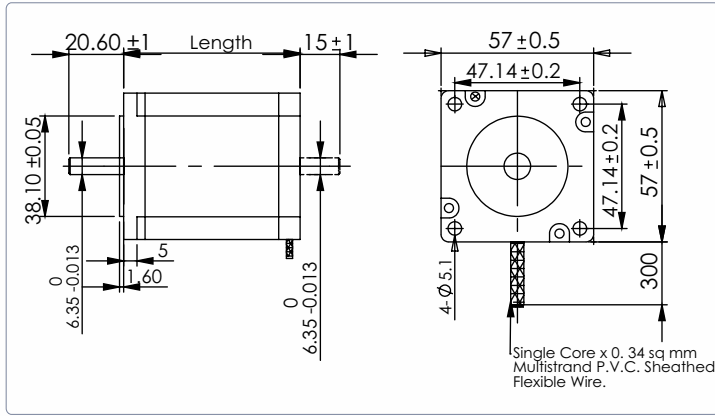


COMMITTED TO PRECISION

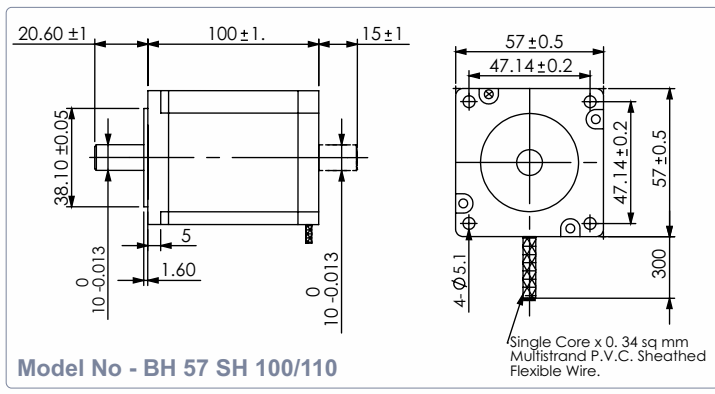
SIZE NEMA 23 (57MM) (SQUARE FRAME) BIPOLAR WINDING MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
1	BH 57 SH 39.5 - 2804 A	24 - 48	2.66	2.8	0.95	1.8	6	0.6	4	120	0.45	39.5
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
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
3	BH 57 SH 51 - 1504 A	24 - 48	2.7	1.5	1.8	4.5	8.0	0.8	4	275	0.65	51
4	BH 57 SH 56 - 2004 A	24 - 48	3.6	2	1.8	4.1	12.6	1.26	4	300	0.72	56
5	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	BH 57 SH 56 - 3004 A-SO	24 - 48	3.0	3.0	1.01	2.7	17	1.7	4	300	0.72	56
7	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
8	BH 57 SH 81 - 2804 A	24 - 48	3.65	2.8	1.3	4.9	22	2.2	4	500	1.2	81
9	BH 57 SH 81 - 4004 A	24 - 48	2	4	0.5	1.4	22	2.2	4	500	1.2	81
10	BH 57 SH 100-3004 A	24 - 48	4.65	3	1.55	6.75	25	2.5	4	600	1.5	100

◆ Mechanical Drawing



All Dimensions are in mm.

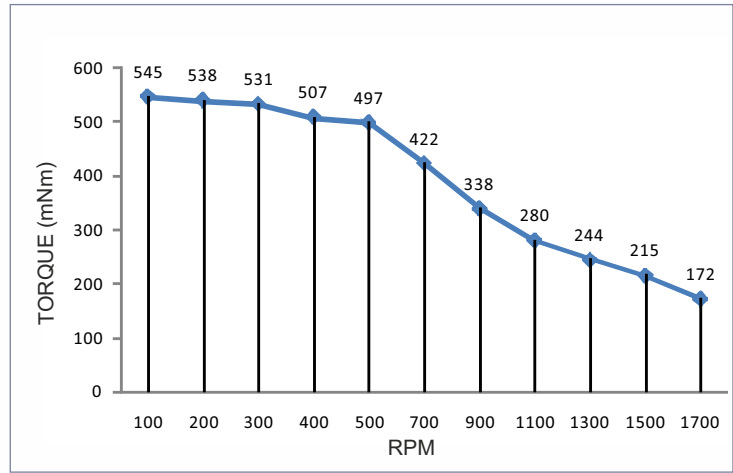




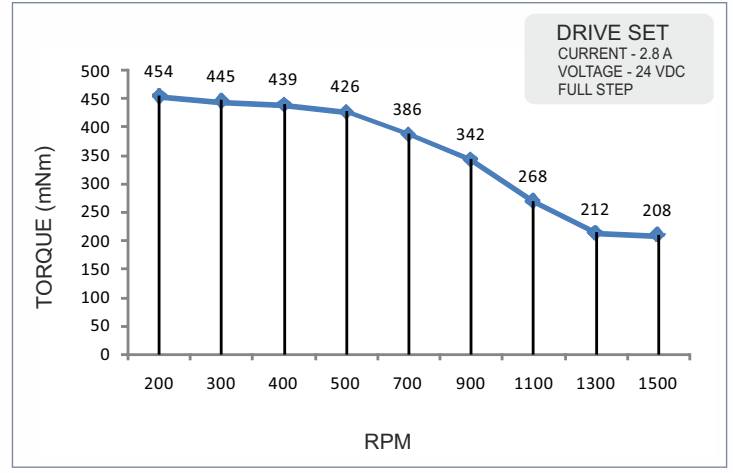
COMMITTED TO PRECISION

SIZE NEMA 23 (57MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

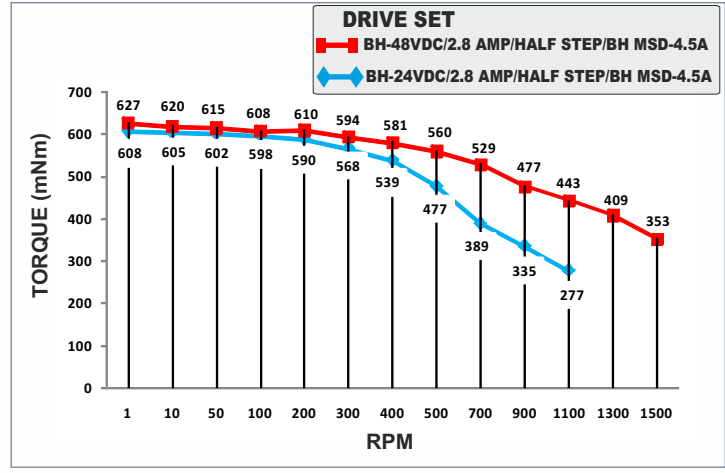
Model No : BH 57 SH 39.5 - 2804 A (6 Kgcm)



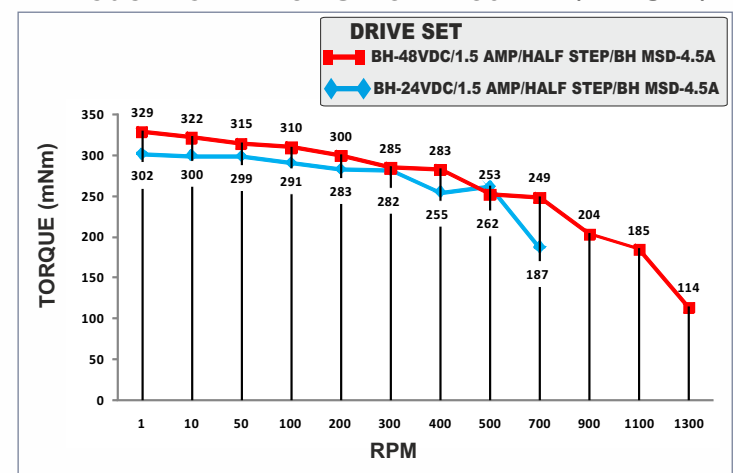
Model No : BH 57 SH 41 - 2804 A (5.5 Kgcm)



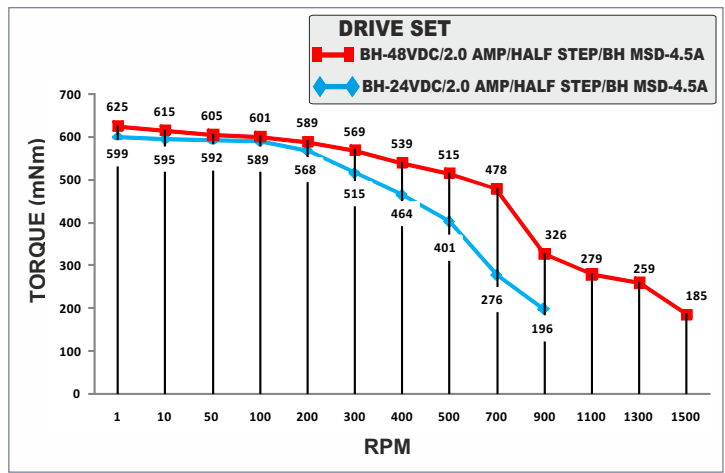
Model No : BH 57 SH 51 - 2804 A (10.1 Kgcm)



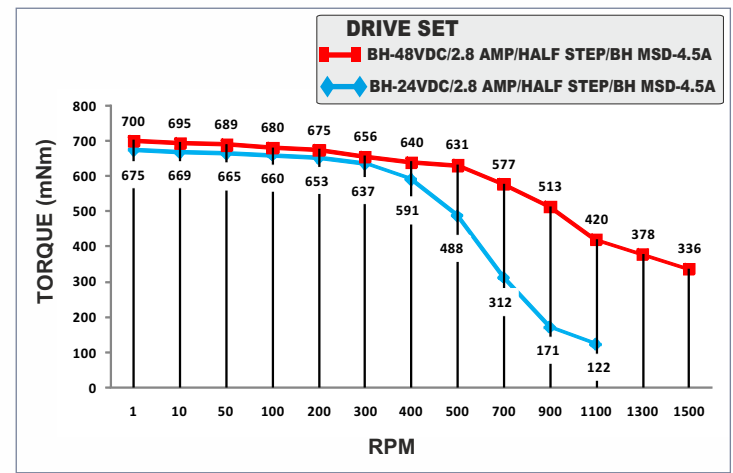
Model No : BH 57 SH 51 - 1504 A (8.0 Kgcm)



Model No : BH 57 SH 56 - 2004 A (12.6 Kgcm)



Model No : BH 57 SH 56 - 2804 A (17 Kgcm)



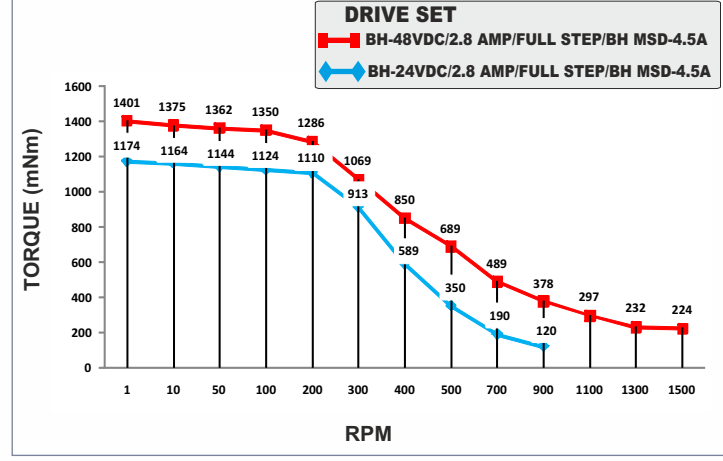
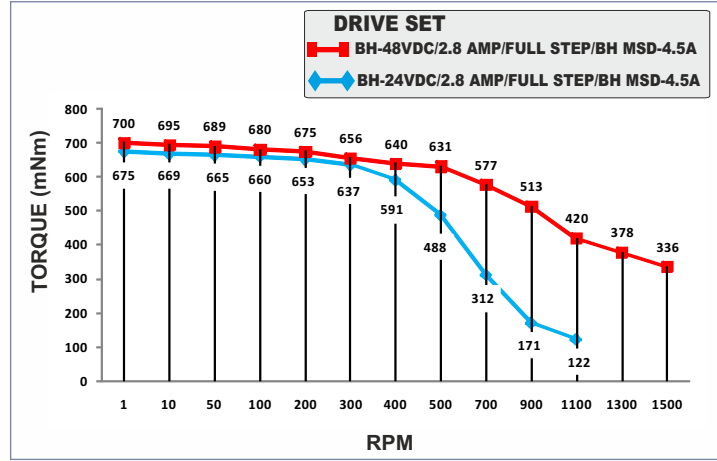


COMMITTED TO PRECISION

SIZE NEMA 23 (57MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

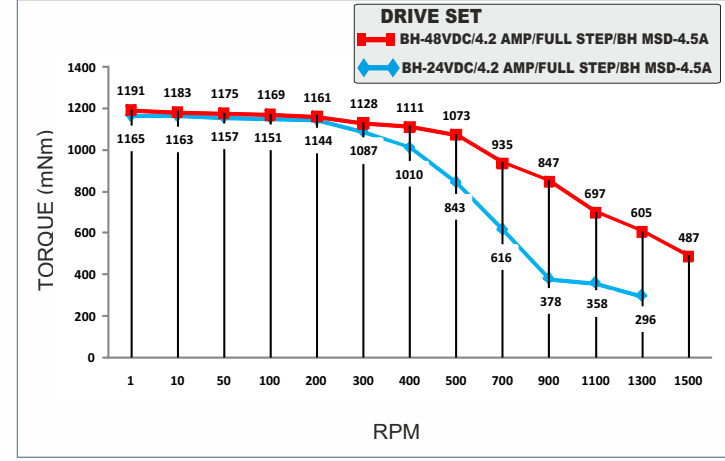
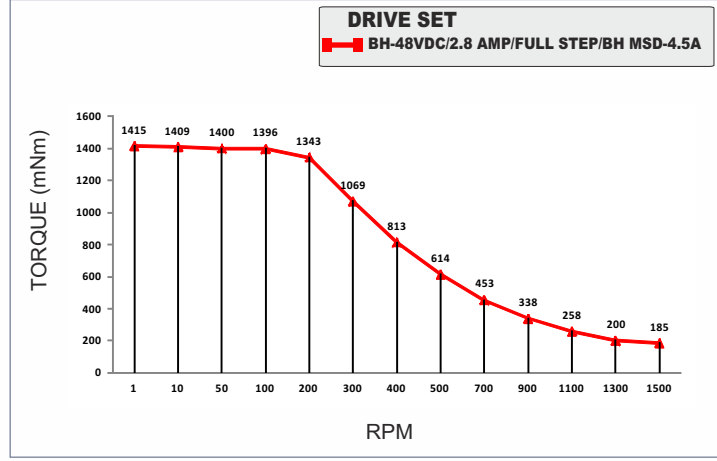
■ Model No : BH 57 SH 56 - 2804 A (12.6 Kgcm)

■ Model No : BH 57 SH 76 - 2804 A (18.9 Kgcm)

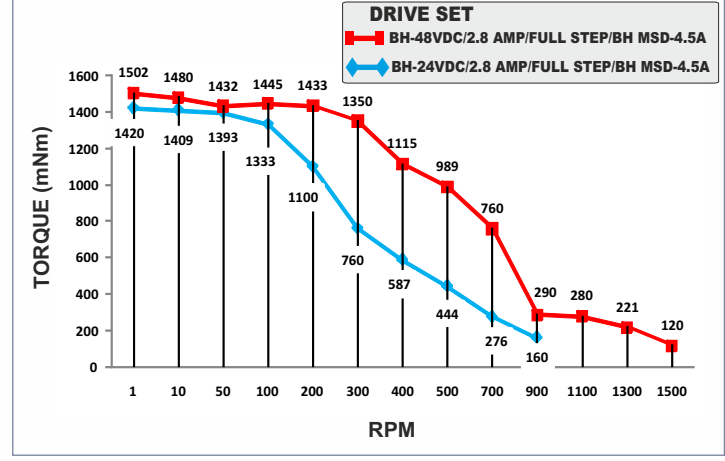


■ Model No : BH 57 SH 81 - 2804 A (22.0 Kgcm)

■ Model No : BH 57 SH 81 - 4004 A (22.0 Kgcm)



■ Model No : BH 57 SH 100 - 3004 A (25.0 Kgcm)





SIZE NEMA 23 (56MM)
2 - phase Stepping Motor
1.8° High Torque Hybrid Stepper Motor

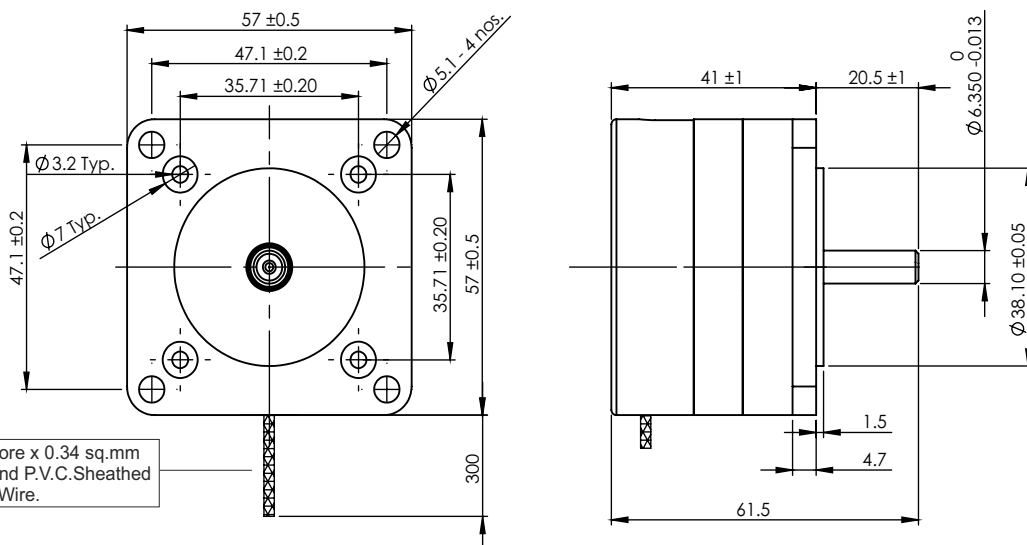
56 SH ROUND MOTORS

Stepper Motor



SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH56 SH 41 (Round Frame Size)
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

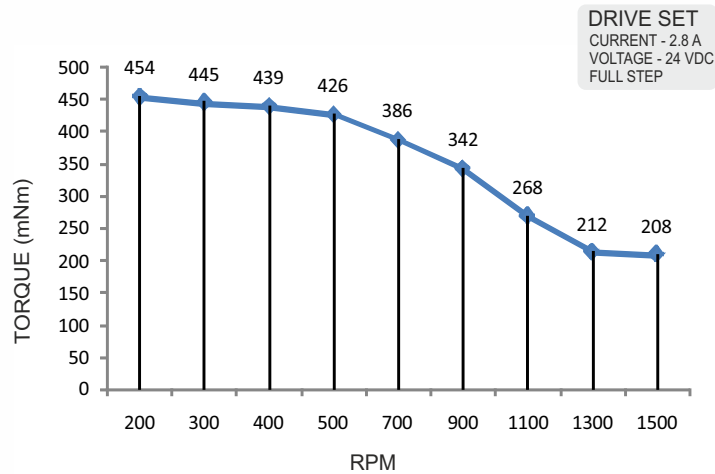
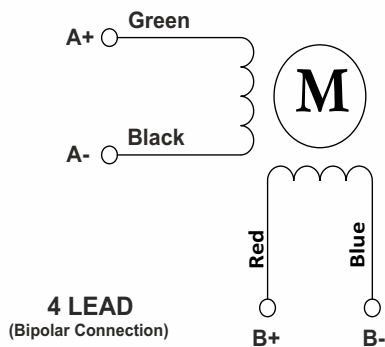
- Step Angle - 1.8°
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature -- 20°C + 50°C
- Temperature Rise - 80° C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. Play (450 G Load)
- Shaft Axial Play 0.08 Max. Play (450 G Load)
- Max.Radial Force 28 N (20MM From Front Flange)
- Max.Axial Force 10 N

SPECIFICATION

BH56SH41-2804A

	MODEL		Bipolar
1	Rated Voltage	V	2.66
2	Current / Phase	A	2.8
3	Resistance / Phase	± 10% Ω	0.95
4	Inductance / Phase	± 20% mH	1.8
5	Holding Torque	Nm	0.55
6	Rotor Inertia	G-CM ²	120
7	Weight	KG.	0.45
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram

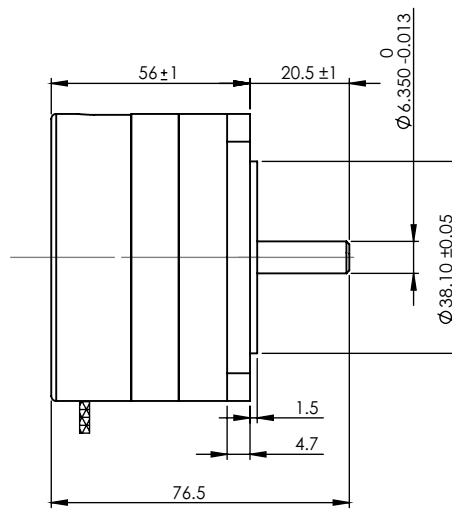
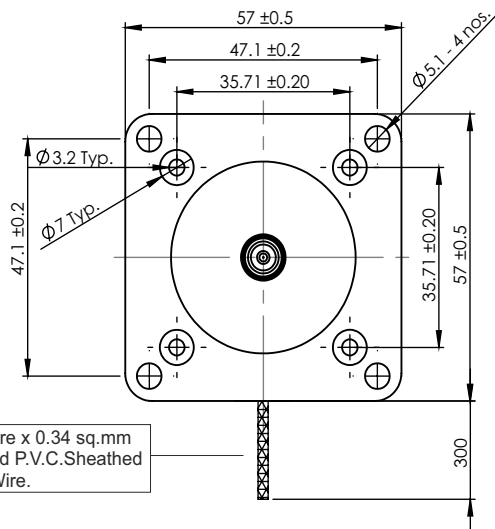


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11, Kembros Ind.Estate , Sonapur Lane , Bhandup (W), Mumbai - 400078.
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 Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 56 SH 56 (Round Frame Size)
HIGH TORQUE HYBRID



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

TECHNICAL DATA

CHARACTERISTICS

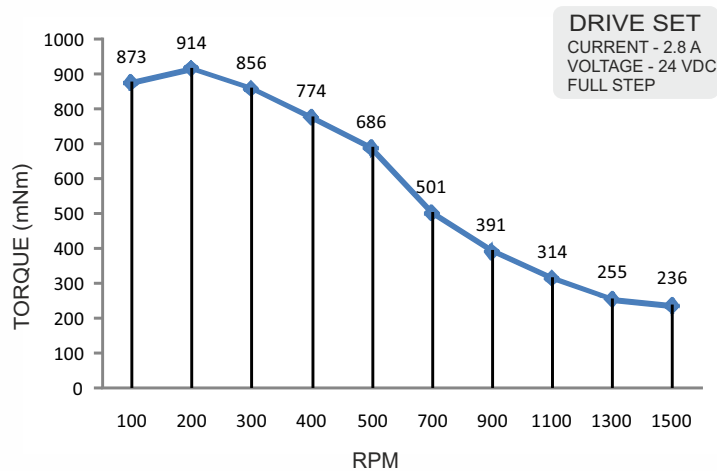
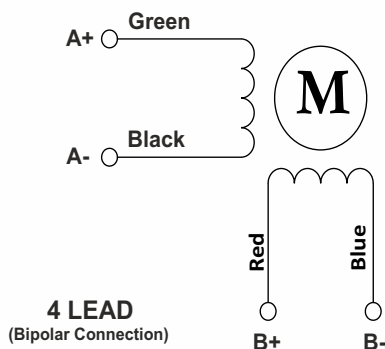
- Step Angle - 1.8°
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature - - 20°C + 50°C
- Temperature Rise - 80°C Max.
(Rated Current Phase 2 ON)
- Insulation Resistance
100 M Ohms Min.500 VDC
- Dielectric Strength
500 VAC For One Minute
- Shaft Radial Play
0.02 Max. Play (450 G Load)
- Shaft Axial Play
0.08 Max. Play (450 G Load)
- Max.Radial Force
28 N (20MM From Front Flange)
- Max.Axial Force
10 N

SPECIFICATION

BH56SH56-2804A

	MODEL		Bipolar
1	Rated Voltage	V	2.8
2	Current / Phase	A	2.8
3	Resistance / Phase	± 10% Ω	1.01
4	Inductance / Phase	± 20% mH	2.5
5	Holding Torque	Nm	1.26
6	Rotor Inertia	G-CM ²	300
7	Weight	KG.	0.72
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram

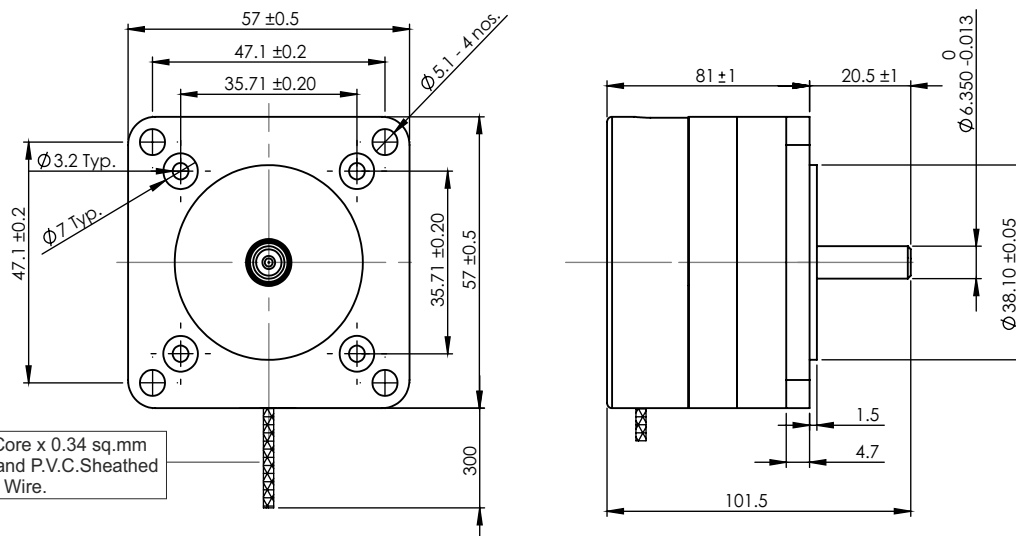


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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 56 SH 81 (Round Frame Size)
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

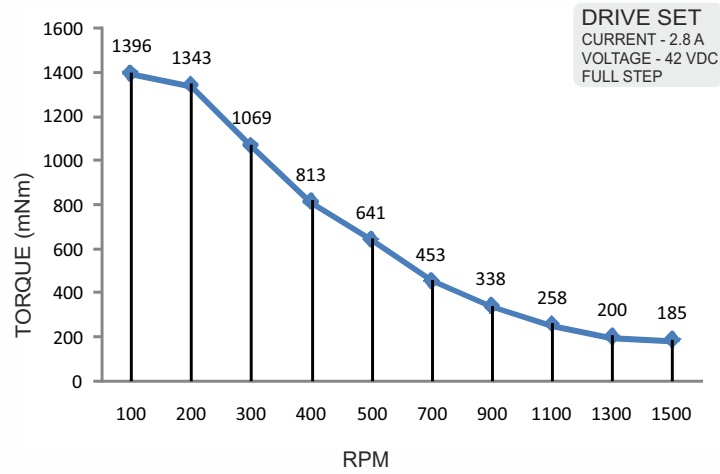
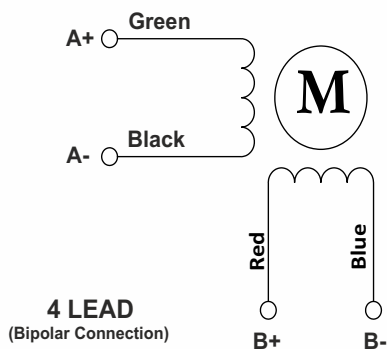
- Step Angle - 1.8°
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature -- 20°C + 50°C
- Temperature Rise - 80° C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. Play (450 G Load)
- Shaft Axial Play 0.08 Max. Play (450 G Load)
- Max.Radial Force 28 N (20MM From Front Flange)
- Max.Axial Force 10 N

SPECIFICATION

BH56SH81-2804A

	MODEL	Bipolar
1	Rated Voltage	V 3.65
2	Current / Phase	A 2.8
3	Resistance / Phase	± 10% Ω 1.3
4	Inductance / Phase	± 20% mH 4.9
5	Holding Torque	Nm 2.2
6	Rotor Inertia	G-CM ² 500
7	Weight	KG. 1.5
8	No of Lead	N ⁰ 4
9	Operating Voltage	VDC 24 - 48

Wiring Diagram

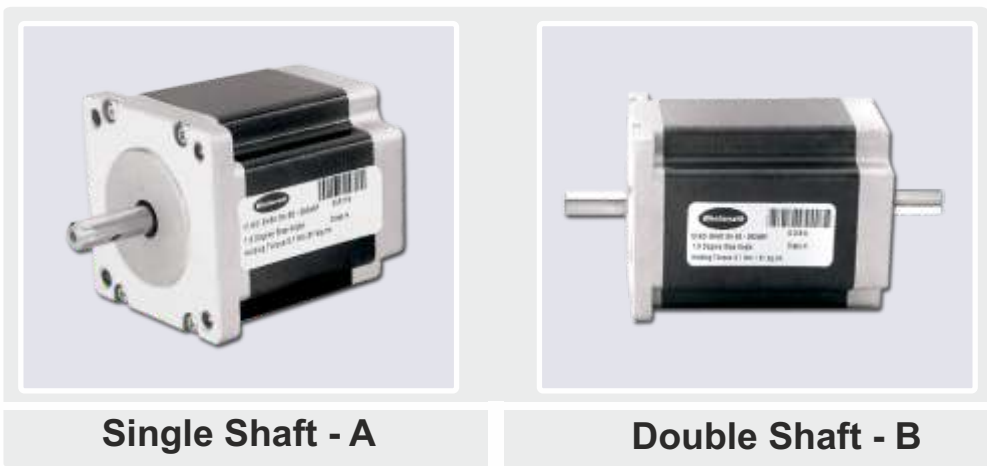


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Mobile No : 9920903825/9322820165/9930514603/9819515543/9323166582.



SIZE NEMA 24 (60MM) 2 - phase Stepping Motor 1.8° High Torque Hybrid Stepper Motor



Characteristics

Step Angle
1.8°

Step Angle Accuracy
± 3 Arc minute

Insulation Class
H

Ambient Temperature
- 20°C + 50°C

Temperature Rise - 80° C Max.
(Rated Current Phase 2 ON)

Insulation Resistance
100 M Ohms Min.500 VDC

Dielectric Strength
500 VAC For One Minute

Shaft Radial Play
0.02 Max. Play (450 G Load)

Shaft Axial Play
0.08 Max. Play (450 G Load)

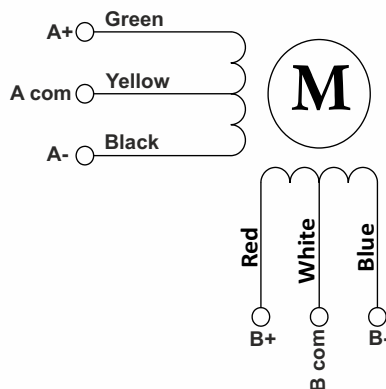
Max.Radial Force
75 N (20MM From Front Flange)

Max.Axial Force
15 N

Connection

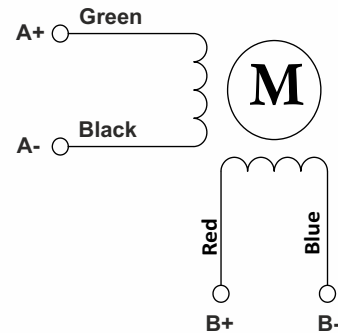
Lead No	Color	Gauge	Function
1	Green	UL 1430 SWG 34	Phase A
2	Black	UL 1430 SWG 34	Phase A-
3	Yellow	UL 1430 SWG 34	Common
4	Red	UL 1430 SWG 34	Phase B
5	Blue	UL 1430 SWG 34	Phase B-
6	White	UL 1430 SWG 34	Common

Wiring Diagram



(Unipolar Connection)
6 LEAD

Wiring Diagram



(Bipolar Connection)
4 LEAD

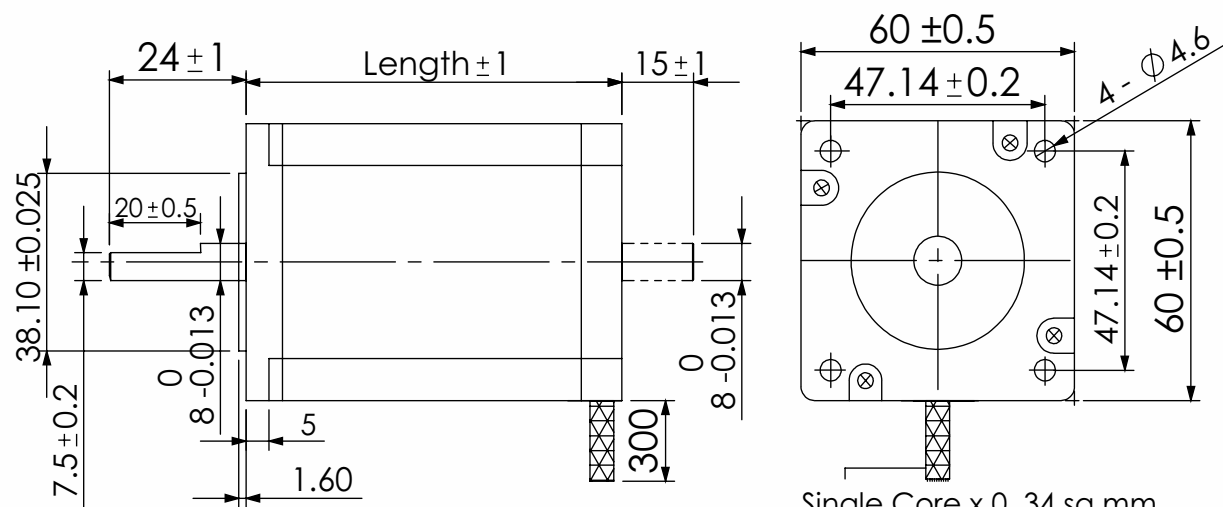


COMMITTED TO PRECISION

**SIZE NEMA 24 (60MM)
(SQUARE FRAME)
UNIPOLAR WINDING MOTORS**

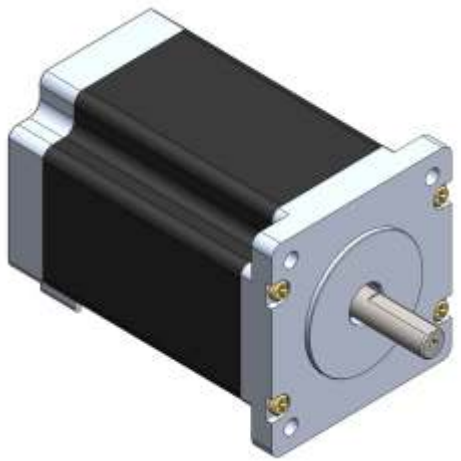
Sr. No.	Model No	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor Inertia	Weight	Length
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
1	BH 60 SH 45 - 2006 AF	18 - 37	3.2	2	1.6	2	7.8	0.78	6	275	0.6	45
2	BH 60 SH 56 - 2006 AF	18 - 37	3.6	2	1.8	2.4	11.7	1.17	6	400	0.77	56
3	BH 60 SH 65 - 2006 AF	18 - 37	4.92	2	2.46	4.15	15	1.5	6	570	1.2	65
4	BH 60 SH 86 - 2006 AF	18 - 37	6.6	2	3.3	6.8	22	2.2	6	840	1.4	86

◆ Mechanical Drawing



All Dimensions are in mm.

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

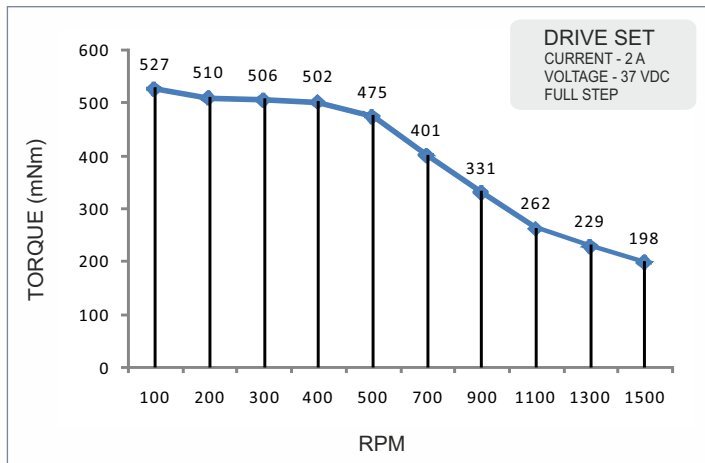




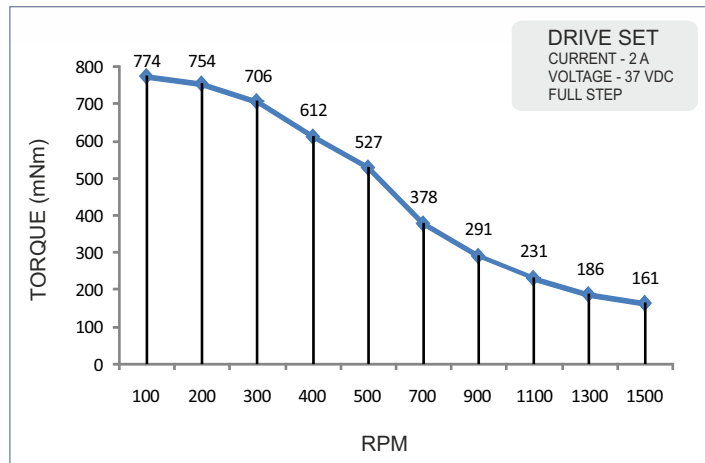
COMMITTED TO PRECISION

SIZE NEMA 24 (60MM) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

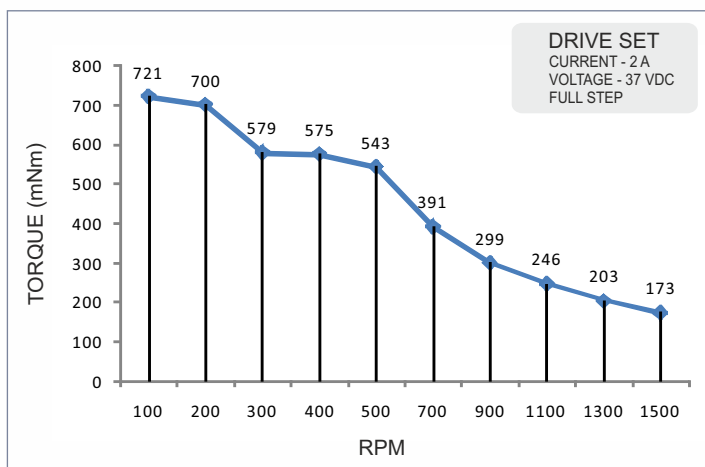
■ Model No : BH 60 SH 45 - 2006 A (7.8 Kgcm)



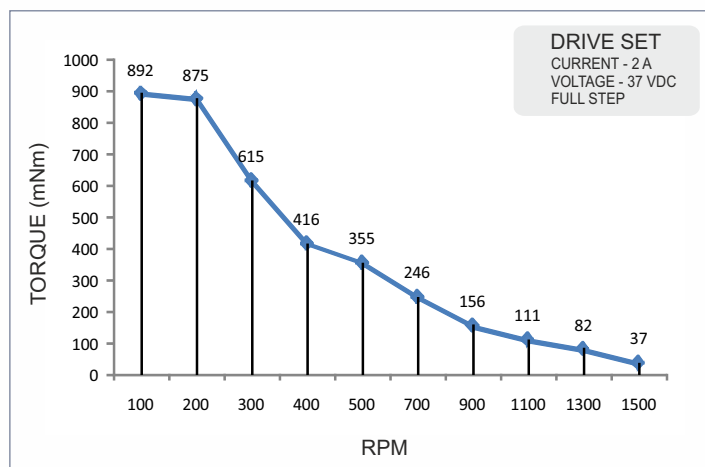
■ Model No : BH 60 SH 56 - 2006 A (11.7 Kgcm)



■ Model No : BH 60 SH 65 - 2006 A (15.0 Kgcm)



■ Model No : BH 60 SH 86 - 2006 A (22.0 Kgcm)



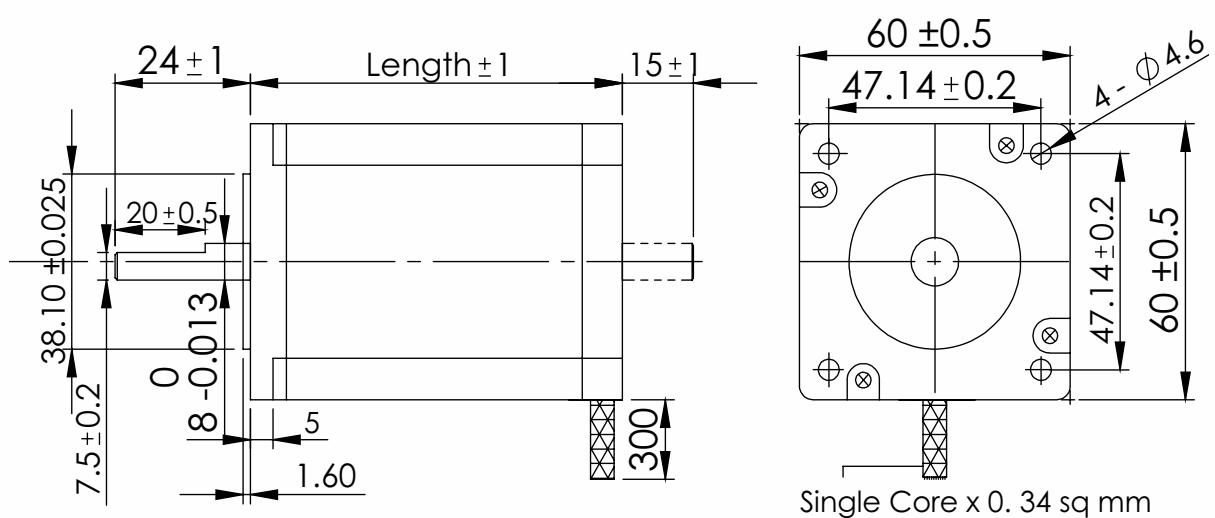


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SIZE NEMA 24 (60MM) (SQUARE FRAME) BIPOLAR WINDING MOTORS

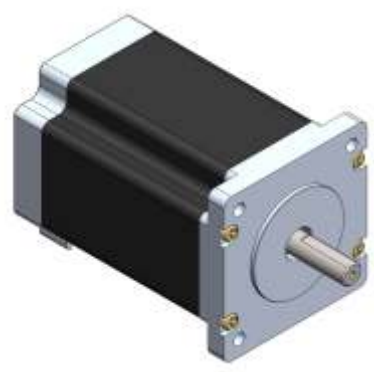
Sr. No.	Model No	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor Inertia	Weight	Length
		VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
1	BH 60 SH 45 - 1404 AF	24 - 48	4.2	1.4	3	7.2	11	1.1	4	275	0.6	45
2	BH 60 SH 45 - 2804 AF	24 - 48	2.1	2.8	0.75	2	11	1.1	4	275	0.6	45
3	BH 60 SH 56 - 1404 AF	24 - 48	5.04	1.4	3.6	10.1	16.5	1.65	4	400	0.77	56
4	BH 60 SH 56 - 2804 AF	24 - 48	2.52	2.8	0.9	2.4	16.5	1.65	4	400	0.77	56
5	BH 60 SH 65 - 1404 AF	24 - 48	6.86	1.4	4.9	15.35	21	2.1	4	570	1.2	65
6	BH 60 SH 65 - 2804 AF	24 - 48	3.36	2.8	1.2	4.2	21	2.1	4	570	1.2	65
7	BH 60 SH 86 - 1404 AF	24 - 48	9.31	1.4	6.65	31.5	31	3.1	4	840	1.4	86
8	BH 60 SH 86 - 2804 AF	24 - 48	4.48	2.8	1.6	6.5	31	3.1	4	840	1.4	86
9	BH 60 SH 86 - 3204 AF	24 - 48	7.2	3.2	2.25	10.81	42	4.2	4	840	1.4	86
10	BH 60 SH 86 - 4004 AF	24 - 48	2.76	4.0	0.69	2.65	31	3.1	4	840	1.4	86

◆ Mechanical Drawing



All Dimensions are in mm.

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

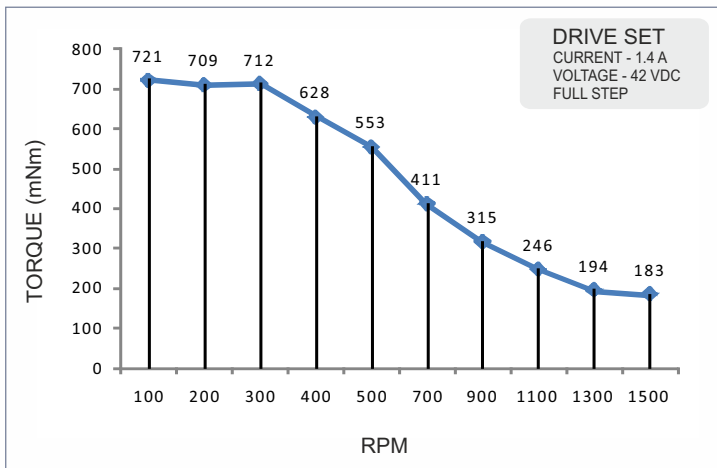




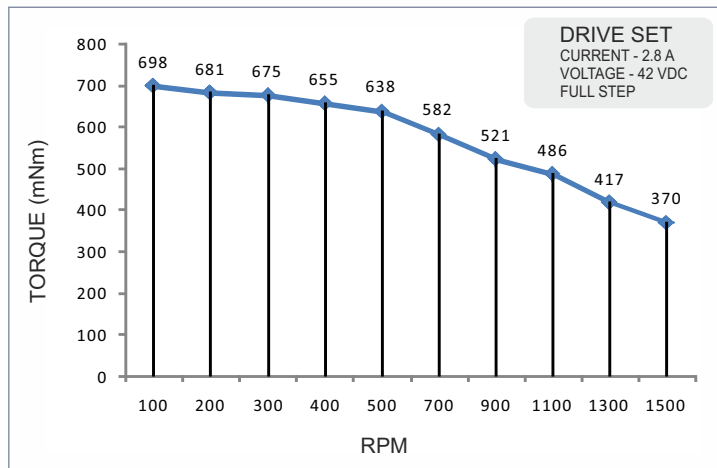
COMMITTED TO PRECISION

SIZE NEMA 24 (60MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

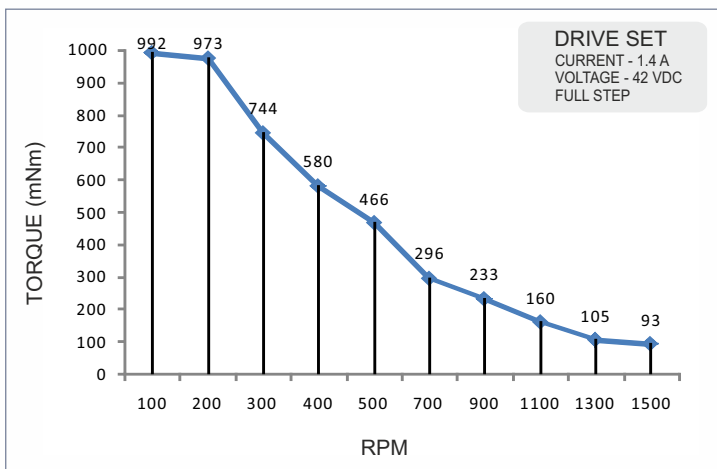
■ Model No : BH 60 SH 45 - 1404 A (11.0 Kgcm)



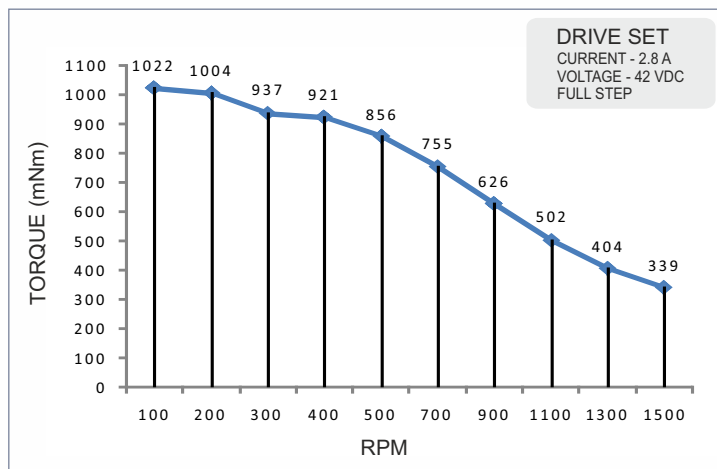
■ Model No : BH 60 SH 45 - 2804 A (11.0 Kgcm)



■ Model No : BH 60 SH 56 - 1404 A (16.5 Kgcm)



■ Model No : BH 60 SH 56 - 2804 A (16.5 Kgcm)

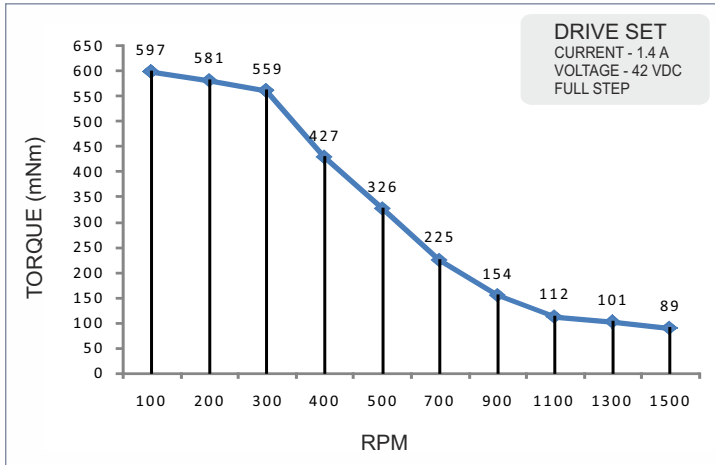




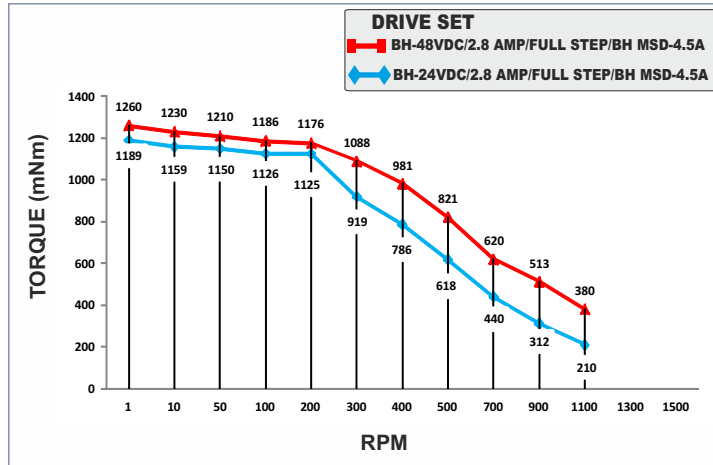
COMMITTED TO PRECISION

SIZE NEMA 24 (60MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

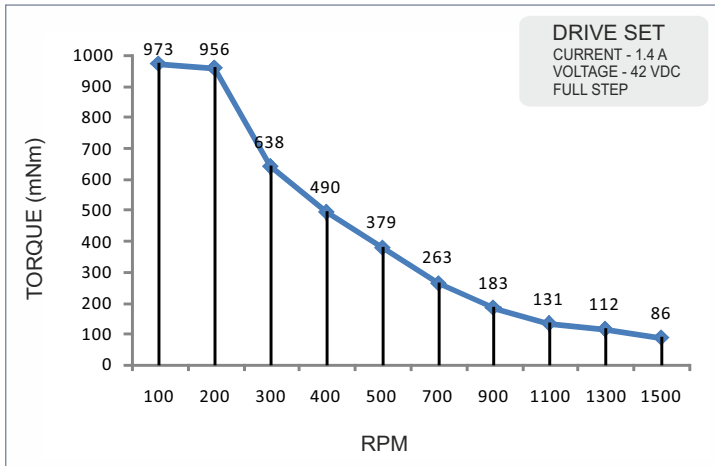
■ Model No : BH 60 SH 65 - 1404 A (21.0 Kgcm)



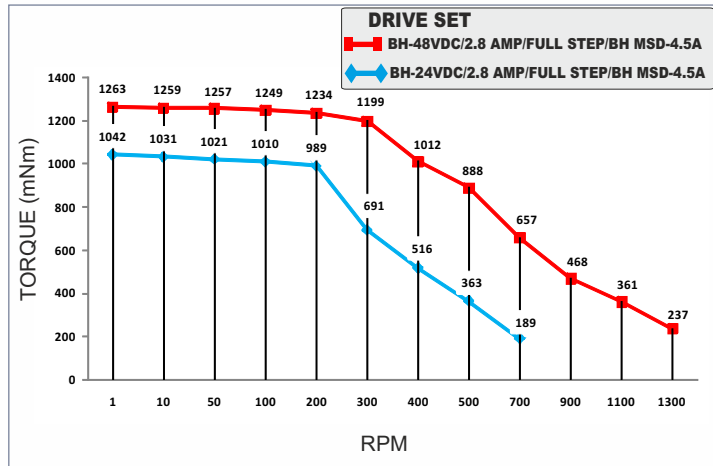
■ Model No : BH 60 SH 65 - 2804 A (21.0 Kgcm)



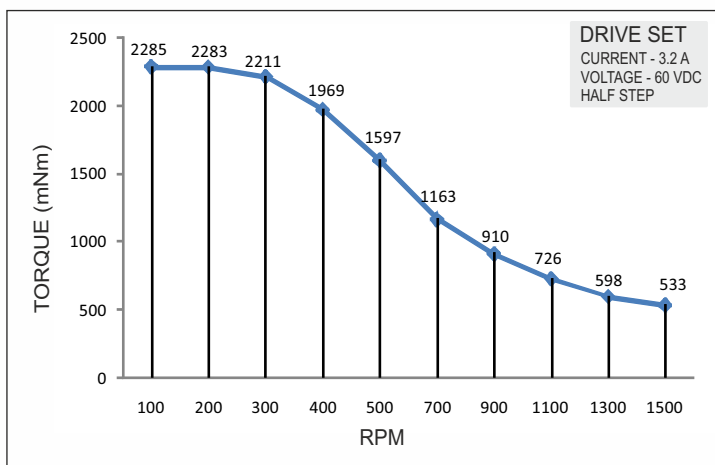
■ Model No : BH 60 SH 86 - 1404 A (31.0 Kgcm)



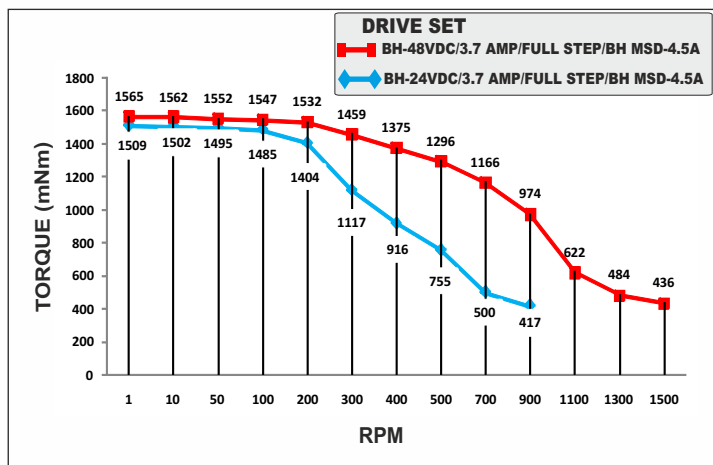
■ Model No : BH 60 SH 86 - 2804 A (31.0 Kgcm)



■ Model No : BH 60 SH 86 - 3204 A (42.0 Kgcm)



■ Model No : BH 60 SH 86 - 4004 A (31.0 Kgcm)





SIZE NEMA 34 (86MM)

2 - phase Stepping Motor

1.8° High Torque Hybrid Stepper Motor



Single Shaft - A



Double Shaft - B

Characteristics

Step Angle
1.8°

Step Angle Accuracy
± 3 arc Minute

Insulation Class
H

Ambient Temperature
- 20°C + 50°C

Temperature Rise - 80° C Max.
(Rated Current Phase 2 ON)

Insulation Resistance
100 M Ohms Min.500 VDC

Dielectric Strength
820 VAC For One Minute

Shaft Radial Play
0.02 Max. Play (450 G Load)

Shaft Axial Play
0.08 Max. Play (450 G Load)

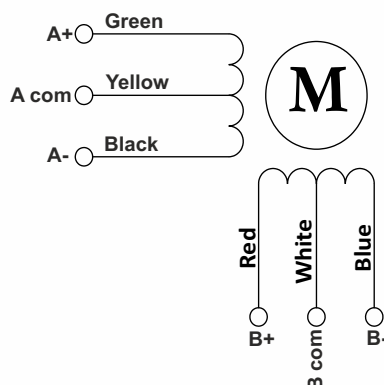
Max.Radial Force
220 N (20MM From Front Flange)

Max.Axial Force
60 N

Connection

Lead No	Color	Gauge	Function
1	Green	UL 1430 SWG 34	Phase A
2	Black	UL 1430 SWG 34	Phase A-
3	Yellow	UL 1430 SWG 34	Common
4	Red	UL 1430 SWG 34	Phase B
5	Blue	UL 1430 SWG 34	Phase B-
6	White	UL 1430 SWG 34	Common

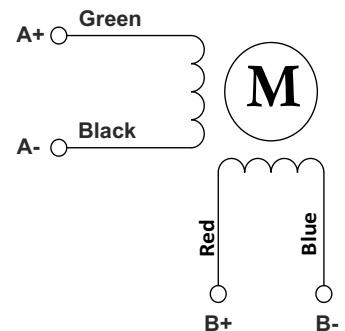
Wiring Diagram



(Unipolar Connection)

6 LEAD

Wiring Diagram



(Bipolar Connection)

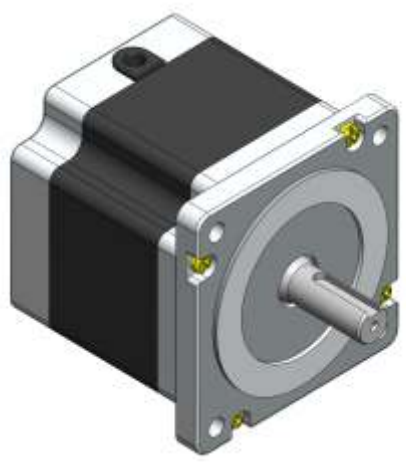
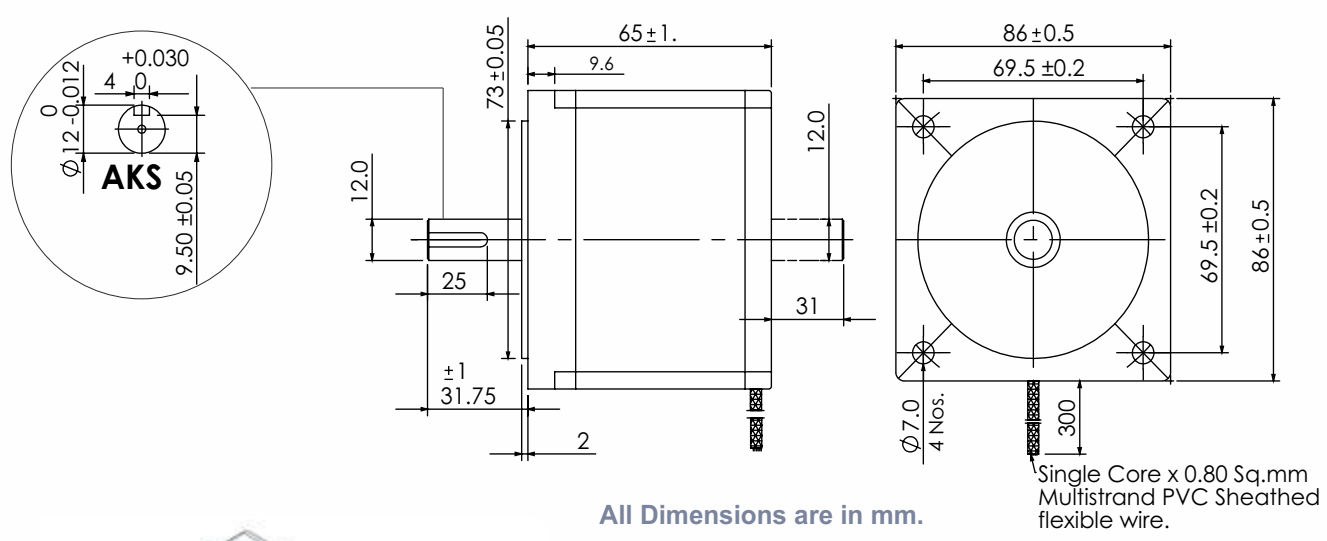
4 LEAD



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SIZE NEMA 34 (86MM - S)
(SQUARE FRAME)
UNIPOLAR WINDING MOTORS

Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Length
	VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
BH 86 SH 65 - 4206 AKS	48-170	2.6	4.2	0.62	1.31	28	2.8	6	1000	1.85	65
BH 86 SH 96 - 4006 AKS	48-170	4.04	4	1.01	3.5	41.3	4.13	6	2700	3.1	96
BH 86 SH 118 - 4206 AKS	48-170	3.49	4.2	0.83	4.25	62.7	6.27	6	2700	4	118
BH 86 SH 156 - 4206 AKS	48-170	6.63	4.2	1.58	7.02	92.0	9.2	6	4000	5.5	156
BH 86 SH 156 - 4006 AKS	48-170	6.68	4.0	1.52	6.2	135	13.5	6	5500	5.5	156

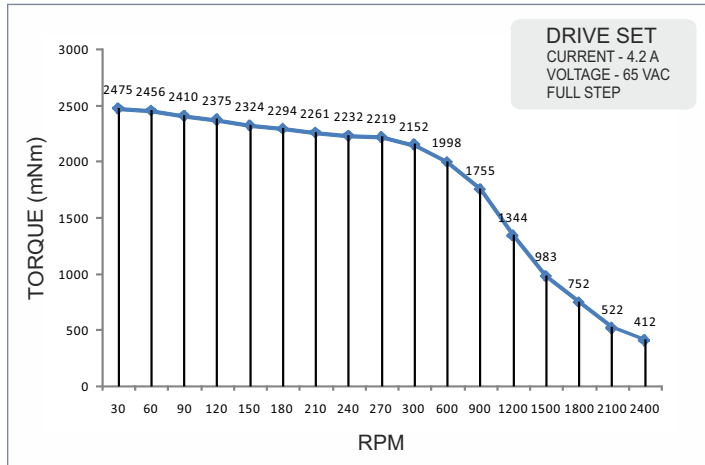




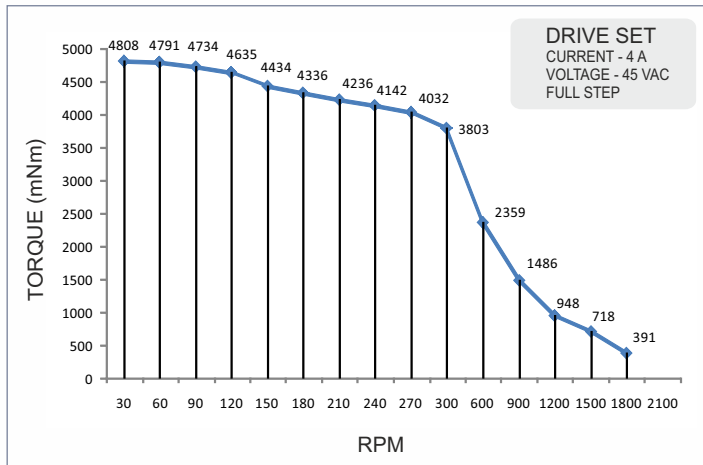
COMMITTED TO PRECISION

SIZE NEMA 34 (86MM - S) (SQUARE FRAME) UNIPOLAR MOTORS - GRAPH

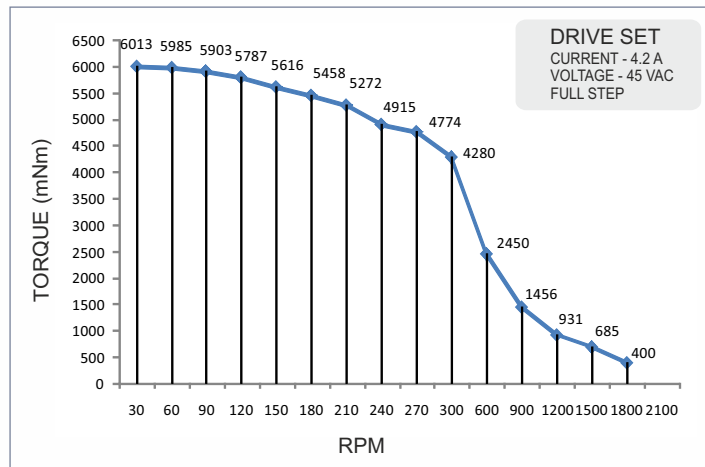
■ Model No : BH 86 SH 65 - 4206 AKS (28.0 Kgcm)



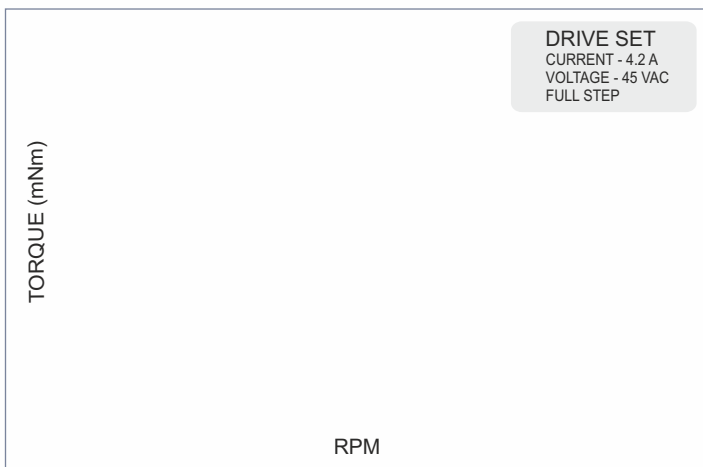
■ Model No : BH 86 SH 96 - 4006 AKS (41.3 Kgcm)



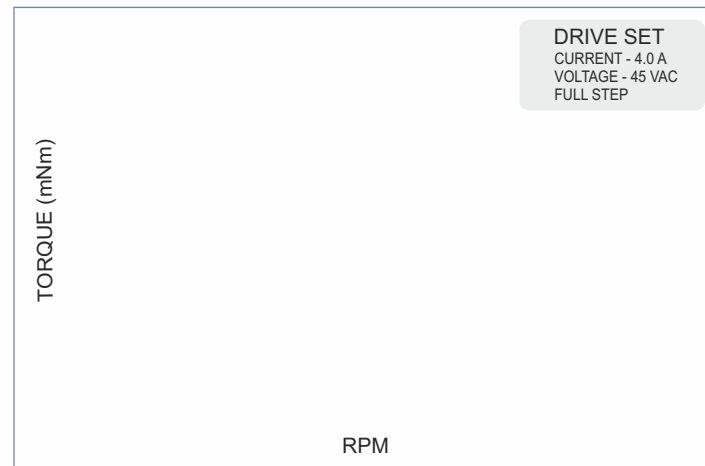
■ Model No : BH 86 SH 118 - 4206 AKS (62.7 Kgcm)



■ Model No : BH 86 SH 118 - 4206 AKS (92 Kgcm)



■ Model No : BH 86 SH 156 - 4006 AKS (135 Kgcm)



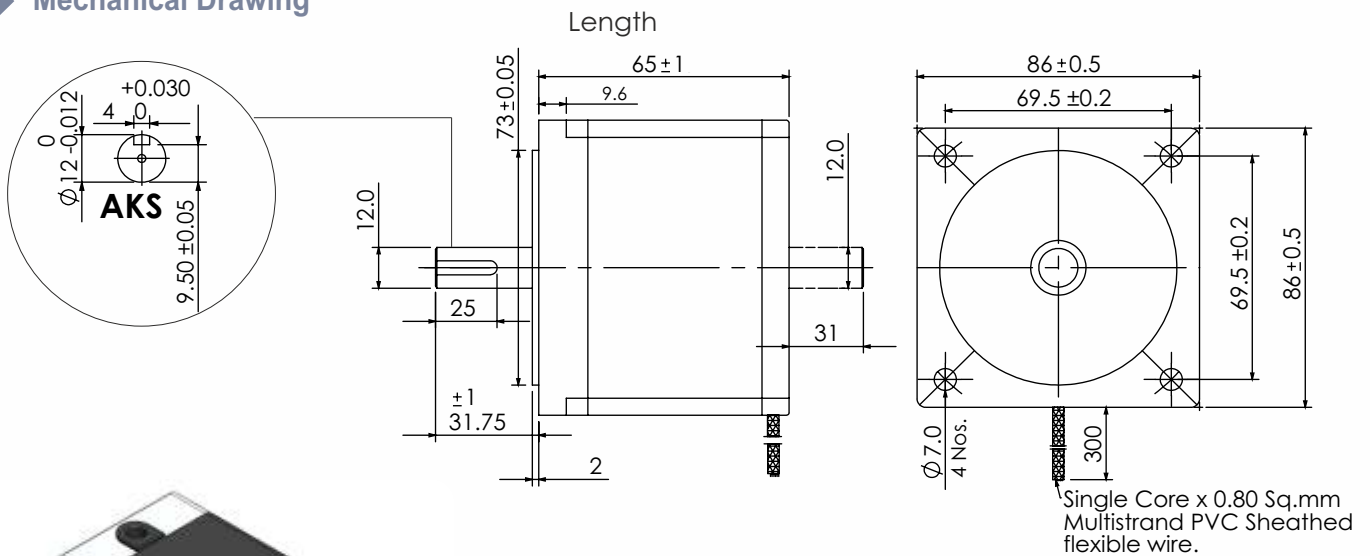


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SIZE NEMA 34 (86MM - S) (SQUARE FRAME) BIPOLAR WINDING MOTORS

Model No.	Operating Voltage	Rated Voltage	Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Holding Torque	No of Leads	Rotor inertia	Weight	Length
	VDC	V	A	Ω	mH	Kgcm	Nm		g-cm ²	Kg	mm
BH 86 SH 65 - 2004 AKS	48-170	3.76	2	1.87	10.5	27.4	2.74	4	1000	1.85	65
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
BH 86 SH 65 - 6004 AKS	48-170	1.86	6	0.31	1.35	27.4	2.74	4	1000	1.85	65
BH 86 SH 80 - 2004 AKS	48-170	7.96	2	3.98	41.6	50.9	5.09	4	1400	2.5	80
BH 86 SH 80 - 4104 AKS	48-170	3.075	4.1	0.75	6	50.9	5.09	4	1400	2.5	80
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
BH 86 SH 96 - 2004 AKS	48-170	7.52	2	3.76	30	74.4	7.44	4	2700	3.1	96
BH 86 SH 96 - 4004 AKS	48-170	3.8	4	0.95	6.8	74.4	7.44	4	2700	3.1	96
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
BH 86 SH 118 - 4004 AKS	48-170	3.08	4	0.77	4.5	91.9	9.19	4	2700	4	118
BH 86 SH 118 - 6004 AKS	48-170	2.52	6	0.42	4.25	91.9	9.19	4	2700	4	118
BH 86 SH 156 - 6004 AKS	48-170	4.8	6	0.8	10.5	133	13.3	4	4000	5.5	156
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

◆ Mechanical Drawing

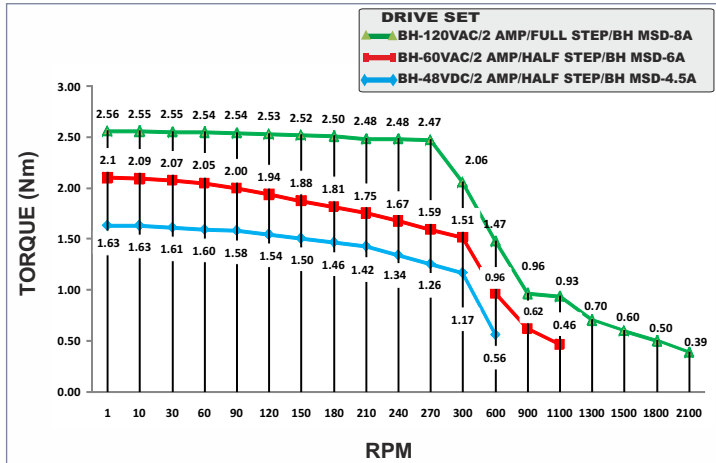




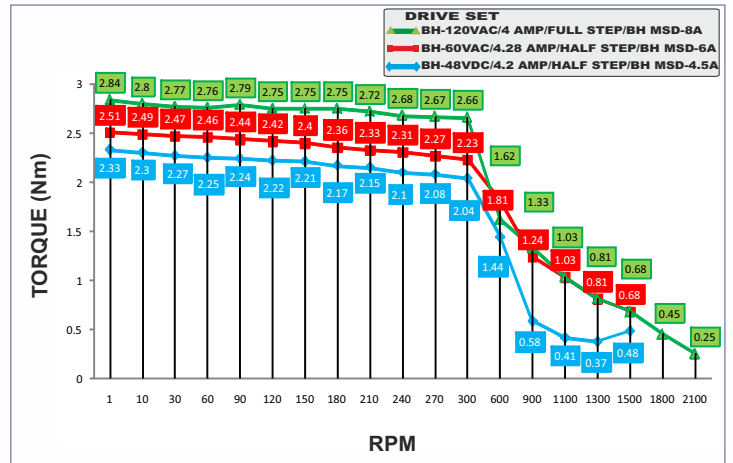
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SIZE NEMA 34 (86MM - S) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

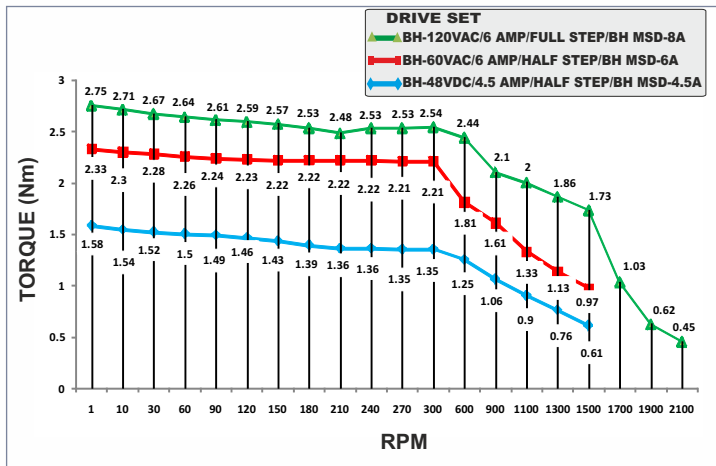
■ Model No : BH 86 SH 65 - 2004 AKS (27.4 Kgcm)



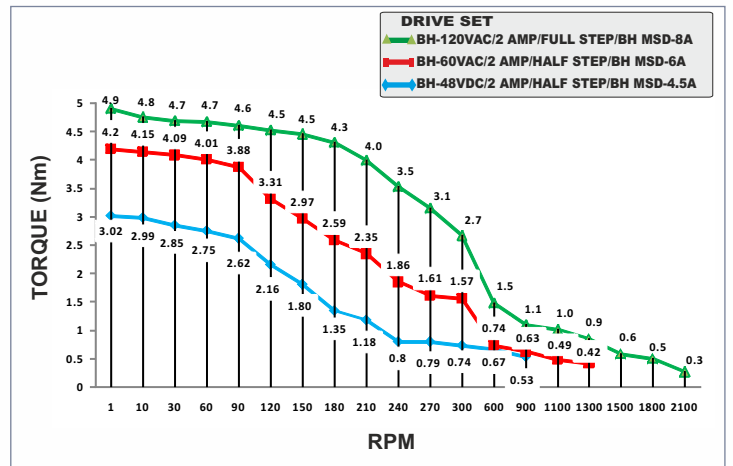
■ Model No : BH 86 SH 65 - 4104 AKS (27.4 Kgcm)



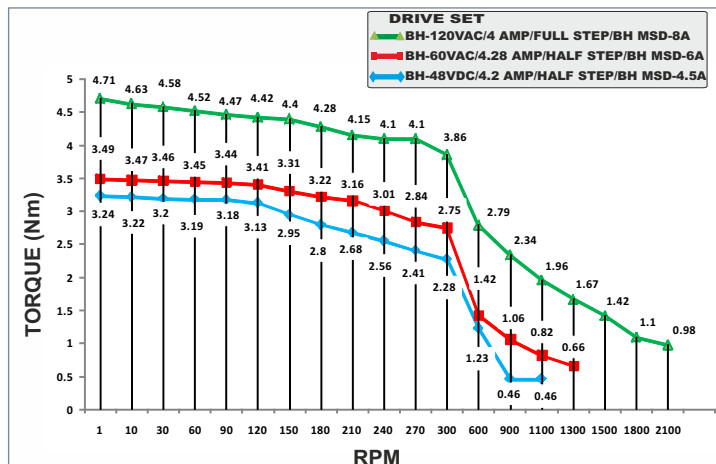
■ Model No : BH 86 SH 65 - 6004 AKS (27.4 Kgcm)



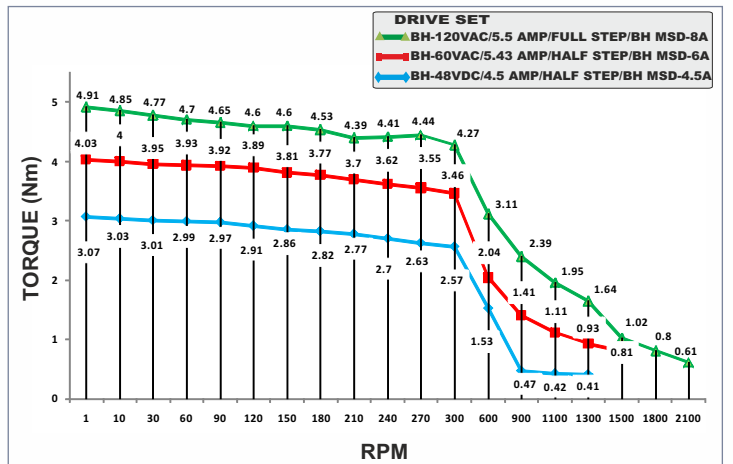
■ Model No : BH 86 SH 80 - 2004 AKS (50.9 Kgcm)



■ Model No : BH 86 SH 80 - 4104 AKS (50.9 Kgcm)



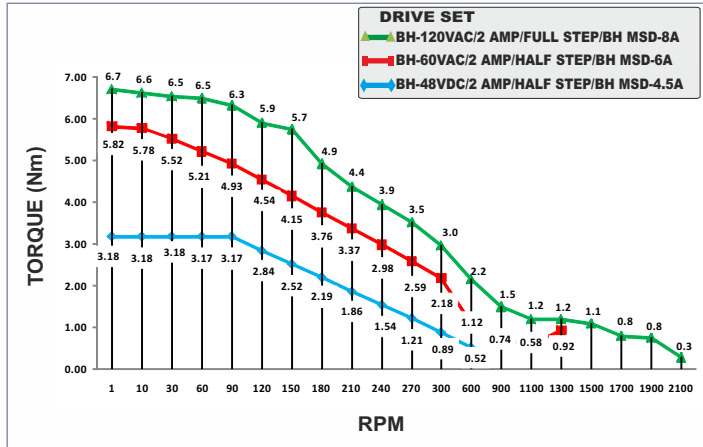
■ Model No : BH 86 SH 80 - 5504 AKS (50.9 Kgcm)



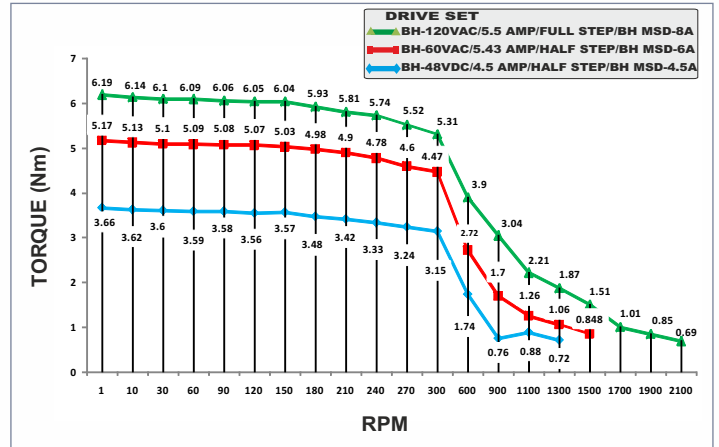
SIZE NEMA 34 (86MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH



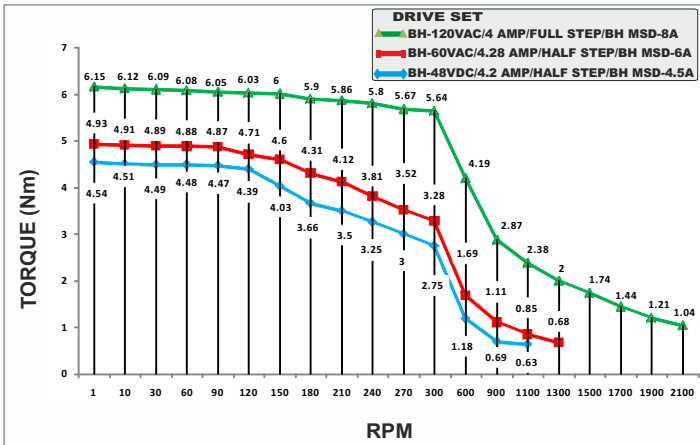
■ Model No : BH 86 SH 96 - 2004 AKS (74.4 Kgcm)



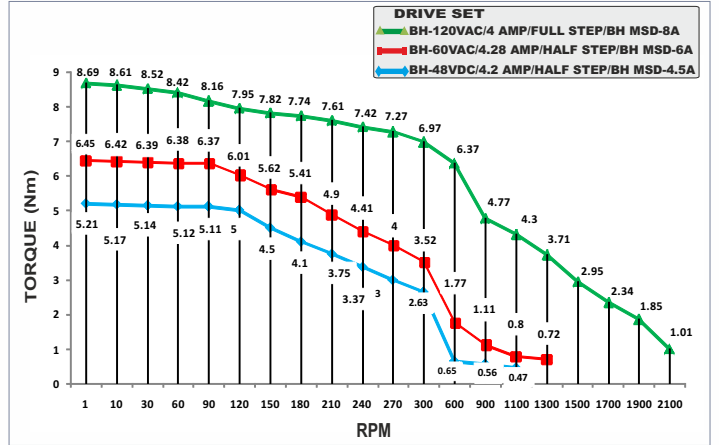
■ Model No : BH 86 SH 96 - 5504 AKS (74.4 Kgcm)



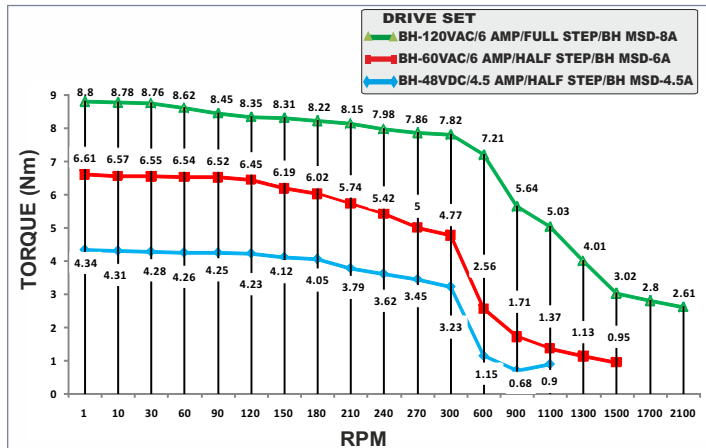
■ Model No : BH 86 SH 96 - 4004 AKS (74.4 Kgcm)



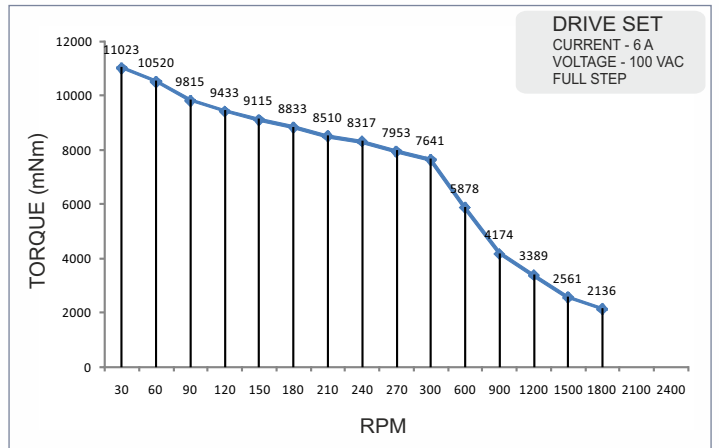
■ Model No : BH 86 SH 118 - 4004 AKS(91.9 Kgcm)



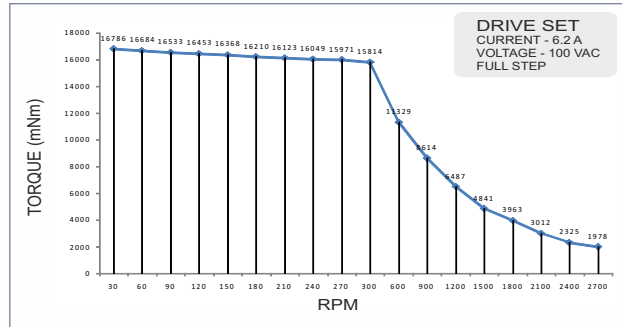
■ Model No : BH 86 SH 118 - 6004 AKS(91.9 Kgcm)



■ Model No : BH 86 SH 156 - 6004 AKS (133 Kgcm)



■ Model No : BH 86 SH 156 - 6204 AKS (175.5 Kgcm)



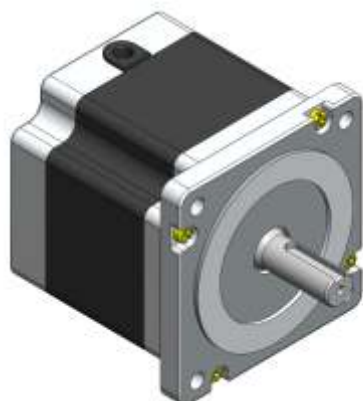
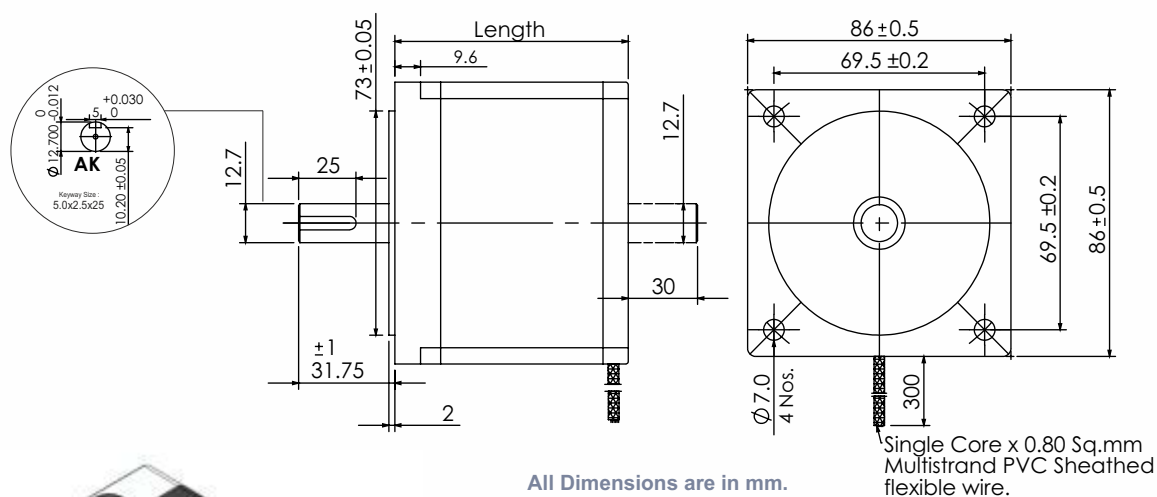


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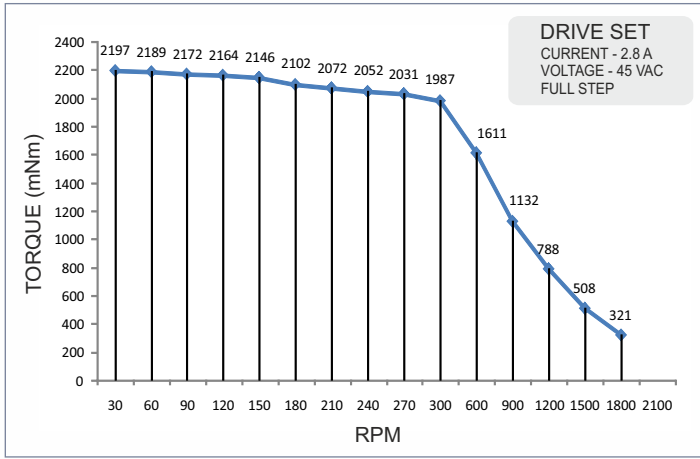
SIZE NEMA 34 (86MM) (SQUARE FRAME) UNIPOLAR WINDING MOTORS

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
		VDC	V	A	Ω	mH	Kgcm	Nm		$g\text{-cm}^2$		mm
1	BH 86 SH 65 - 2806 AK	48 - 170	3.42	2.8	1.22	3.4	20	2.0	6	1000	1.85	65
2	BH 86 SH 65 - 3006 AK	48 - 170	2.66	3	0.95	2.8	28	2.8	6	1000	1.85	65
3	BH 86 SH 80 - 2806 AK	48 - 170	5.71	2.8	2.04	9.45	32	3.2	6	1400	2.5	80
4	BH 86 SH 80 - 4006 AK	48 - 170	3.44	4.0	0.86	3.65	32	3.2	6	1400	2.5	80
5	BH 86 SH 80 - 3006 AK	48 - 170	4.2	3	1.50	6.0	36	3.6	6	1400	2.5	80
6	BH 86 SH 96 - 2806 AK	48 - 170	5.12	2.8	1.83	6.75	54	5.4	6	2700	3.1	96
7	BH 86 SH 118-2806 AK	48 - 170	4.51	2.8	1.61	4.5	62	6.2	6	2700	4.0	118
8	BH 86 SH 156-4206 AK	48 - 170	6.63	4.2	1.58	7.02	90	9.0	6	4000	5.5	156
9	BH 86 SH 156-4006 AK	48 - 170	6.68	4.0	1.52	6.2	130	13.0	6	5500	5.5	156

◆ Mechanical Drawing

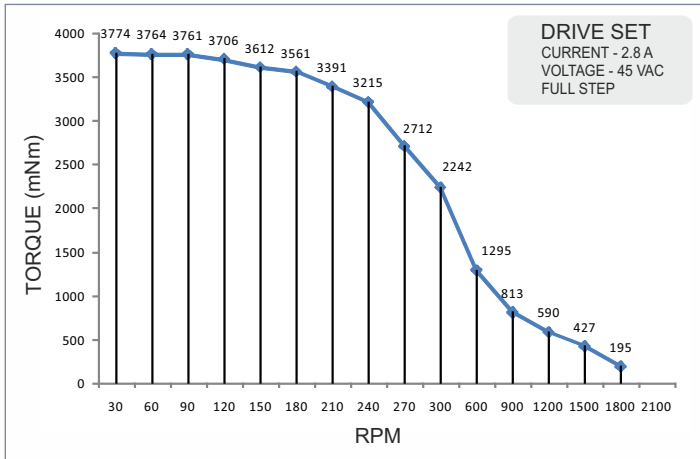


■ Model No : BH 86 SH 65 - 2806 AK (20.0 Kgcm)

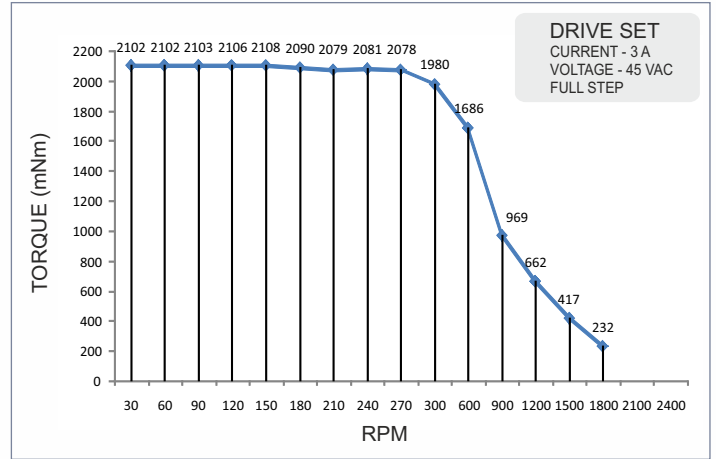


SIZE NEMA 34 (86MM)
(SQUARE FRAME)
UNIPOLAR MOTORS - GRAPH

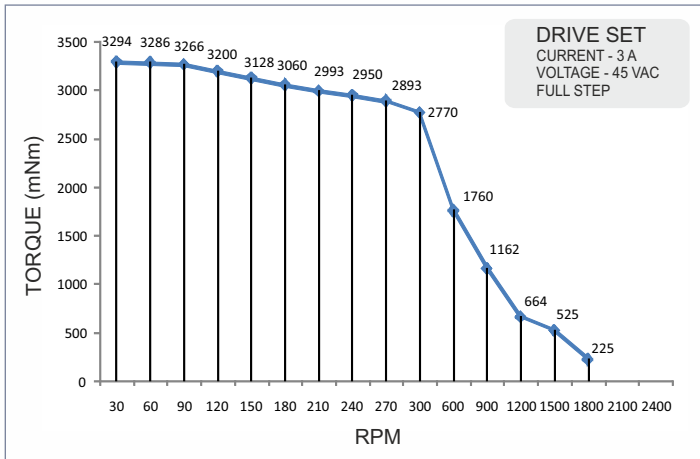
■ Model No : BH 86 SH 80 - 2806 AK (32.0 Kgcm)



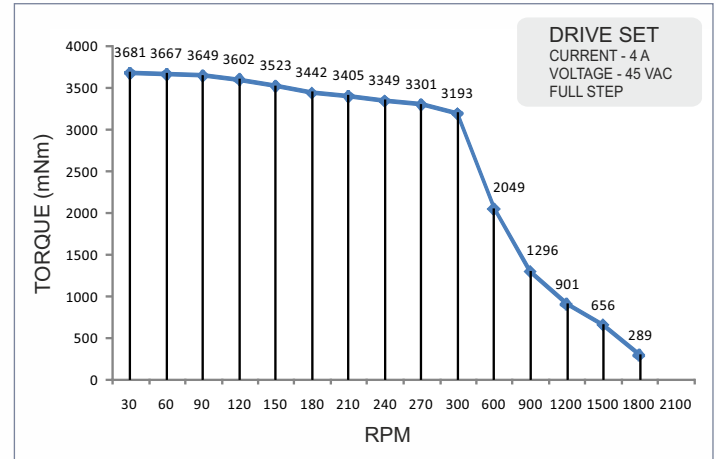
■ Model No : BH 86 SH 65 - 3006 AK (28.0 Kgcm)



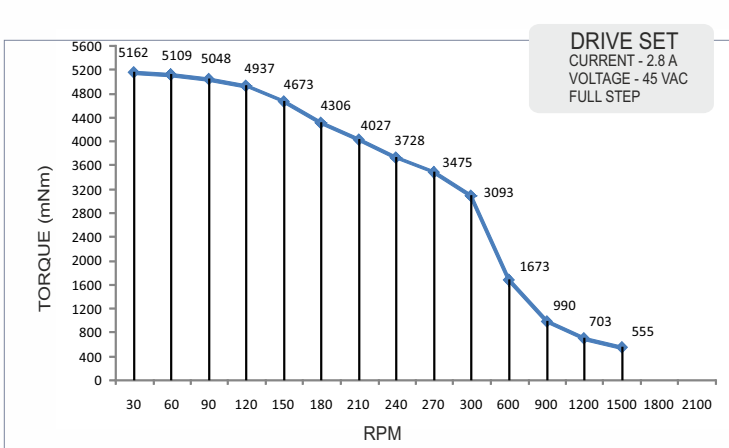
■ Model No : BH 86 SH 80 - 3006 AK (32.0 Kgcm)



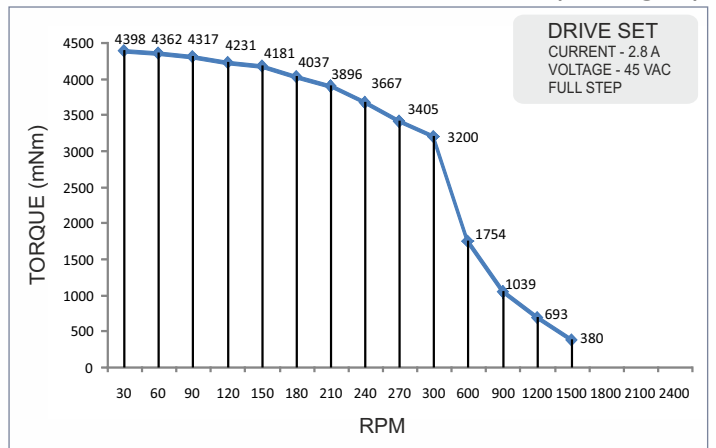
■ Model No : BH 86 SH 80 - 4006 AK (32.0 Kgcm)



■ Model No : BH 86 SH 118 - 2806 AK (62 Kgcm)



■ Model No : BH 86 SH 96 - 2806 AK (50.0 Kgcm)



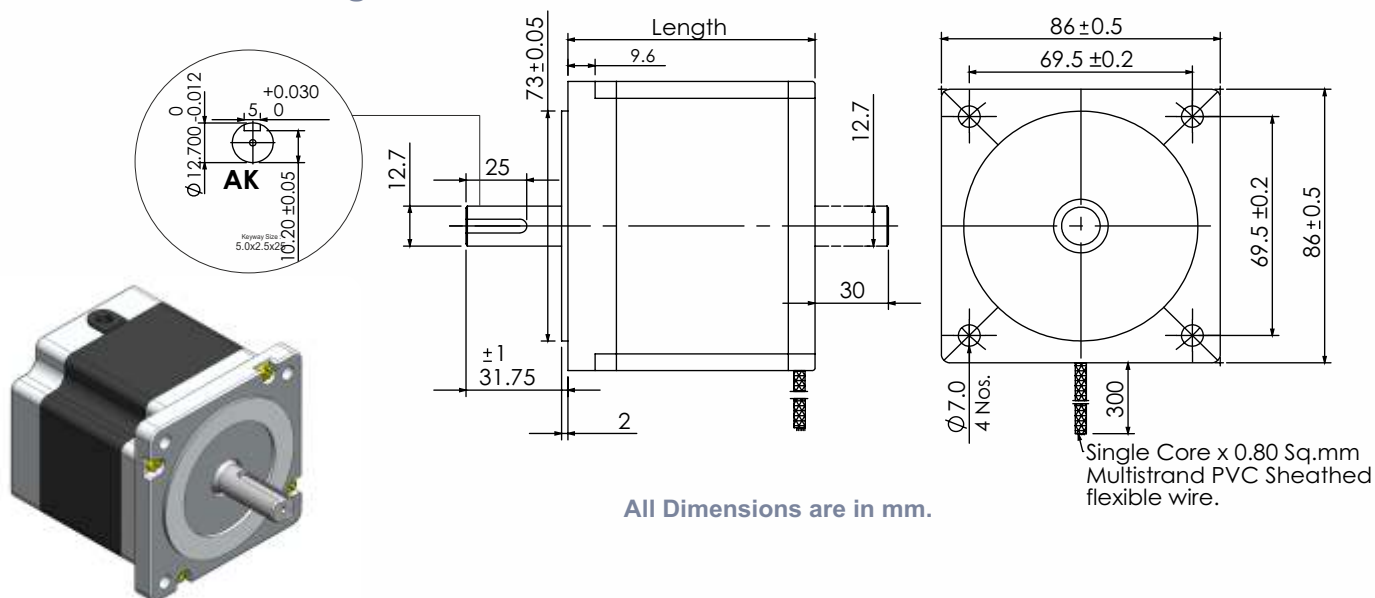


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**SIZE NEMA 34 (86MM)
(SQUARE FRAME)
BIPOLAR WINDING MOTORS**

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
		VDC	V	A	Ω	mH	Kgcm	Nm				mm
1	BH 86 SH 65-2104 AK	48 - 170	5.08	2.1	2.42	13.0	28	2.8	4	1000	1.85	65
2	BH 86 SH 65-3004 AK	48 - 170	3.75	3	1.25	4.6	34	3.4	4	1000	1.85	65
3	BH 86 SH 65-4004 AK	48 - 170	1.88	4	0.47	2.8	34	3.4	4	1000	1.85	65
4	BH 86 SH 65-6004 AK	48 - 170	1.86	6	0.31	1.35	34	3.4	4	1000	1.85	65
5	BH 86 SH 80-3004 AK	48 - 170	5.28	3	1.76	13.8	46	4.6	4	1400	2.5	80
6	BH 86 SH 80-4004 AK	48 - 170	4	4	1.0	9.7	46	4.6	4	1400	2.5	80
7	BH 86 SH 80-2104 AK	48 - 170	6.3	2.1	3.0	25.15	50	5.0	4	1400	2.5	80
8	BH 86 SH 80-5504 AK	48 - 170	2.42	5.5	0.44	3.6	46	4.6	4	1400	2.5	80
9	BH 86 SH 96-3004 AK	48 - 170	6.03	3	2.01	13.3	70	7.0	4	2700	3.1	96
10	BH 86 SH 96-5504 AK	48 - 170	2.75	5.5	0.5	3.55	70	7.0	4	2700	3.1	96
11	BH 86 SH 96-5604 AK	48 - 170	7.56	5.6	1.35	13.4	85	8.5	4	2700	3.1	96
12	BH 86 SH 96-4004 AK	48 - 170	3.8	4.0	0.95	6.8	68	6.8	4	2700	3.1	96
13	BH 86 SH 118-2004 AK	48 - 170	6.2	2	3.1	17.2	87	8.7	4	2700	4	118
14	BH 86 SH 118-3004 AK	48 - 170	5.07	3	1.69	16.18	87	8.7	4	2700	4	118
15	BH 86 SH 118-4004 AK	48 - 170	3.08	4	0.77	4.5	87	8.7	4	2700	4	118
16	BH 86 SH 118-6004 AK	48 - 170	2.52	6	0.42	4.25	87	8.7	4	2700	4	118
17	BH 86 SH 156-3004 AK	48 - 170	9.54	3	3.18	29.5	128	12.8	4	4000	5.5	156
18	BH 86 SH 156-3204 AK	48 - 170	9.3	3.2	3.1	26.6	180	18.0	4	5500	5.5	156
19	BH 86 SH 156-6004 AK	48 - 170	4.8	6	0.8	10.5	128	12.8	4	4000	5.5	156
20	BH 86 SH 156-6204 AK	48 - 170	5.27	6.2	0.85	9.4	180	18.0	4	5500	5.5	156

◆ Mechanical Drawing



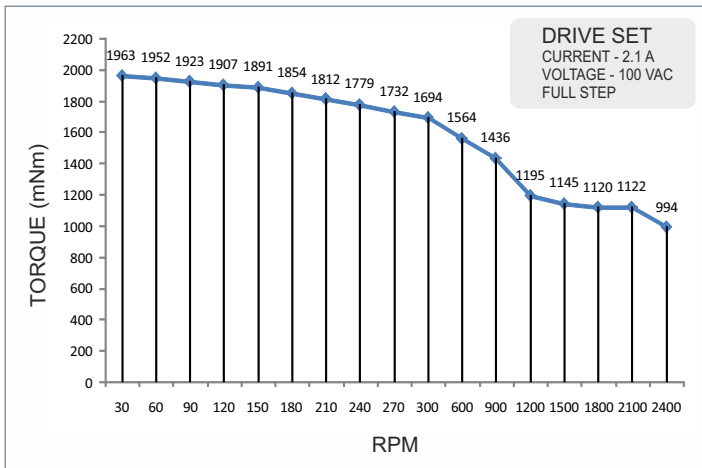
All Dimensions are in mm.



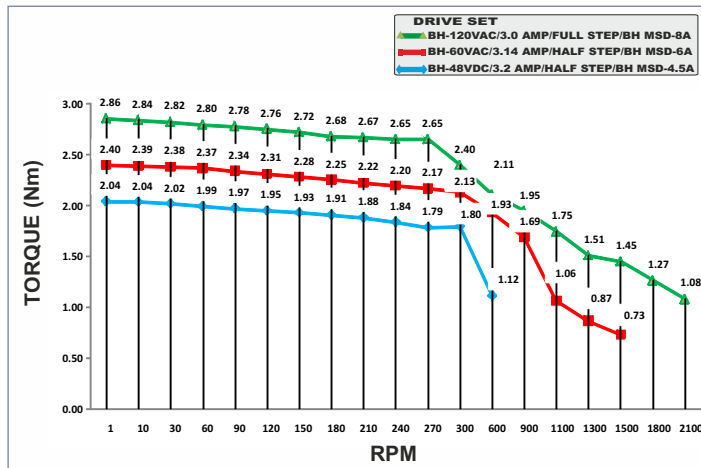
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SIZE NEMA 34 (86MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

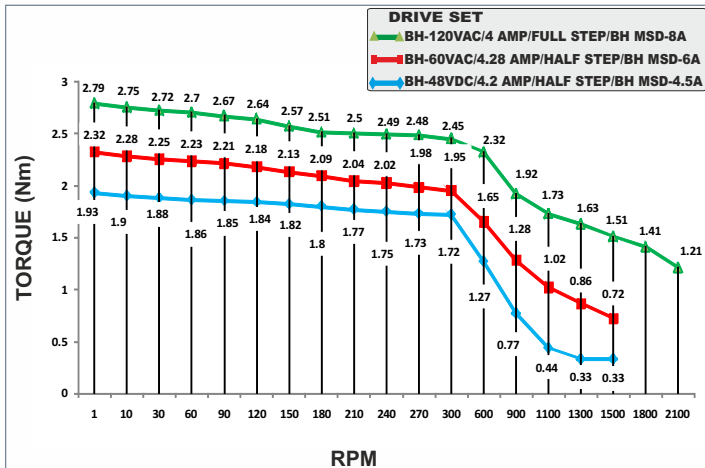
■ Model No : BH 86 SH 65 - 2104 AK (28.0 Kgcm)



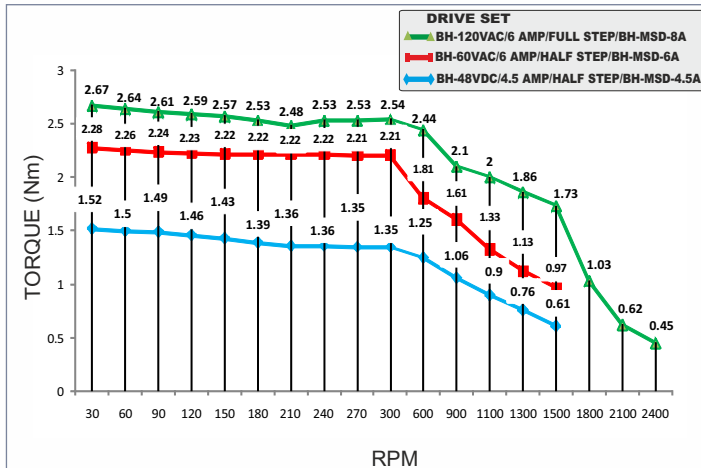
■ Model No : BH 86 SH 65 - 3004 AK (34.0 Kgcm)



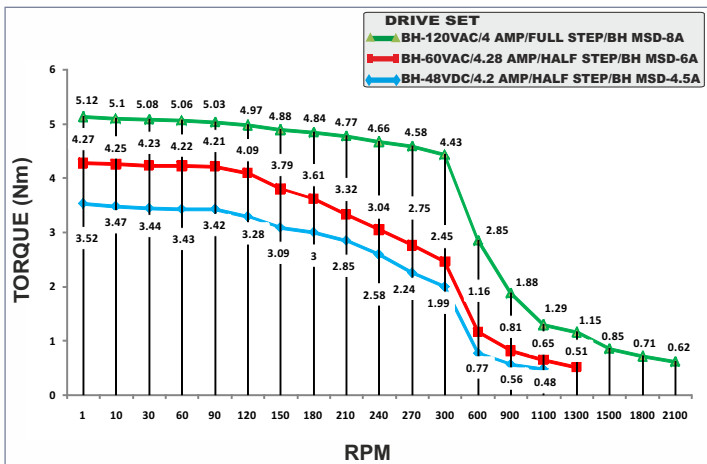
■ Model No : BH 86 SH 65 - 4004 AK (34.0 Kgcm)



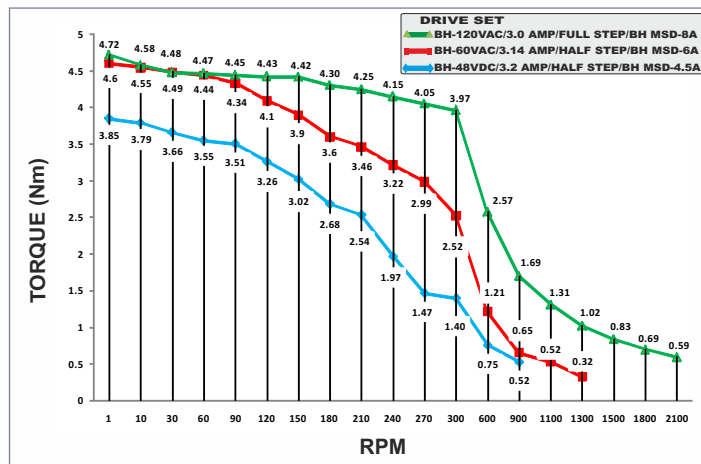
■ Model No : BH 86 SH 65 - 6004 AK (34 Kgcm)



■ Model No : BH 86 SH 80 - 4004 AK (46.0 Kgcm)



■ Model No : BH 86 SH 80 - 3004 AK (46.0 Kgcm)

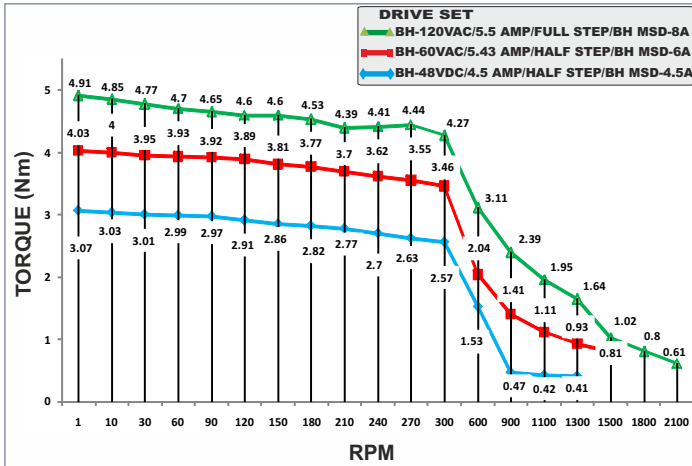




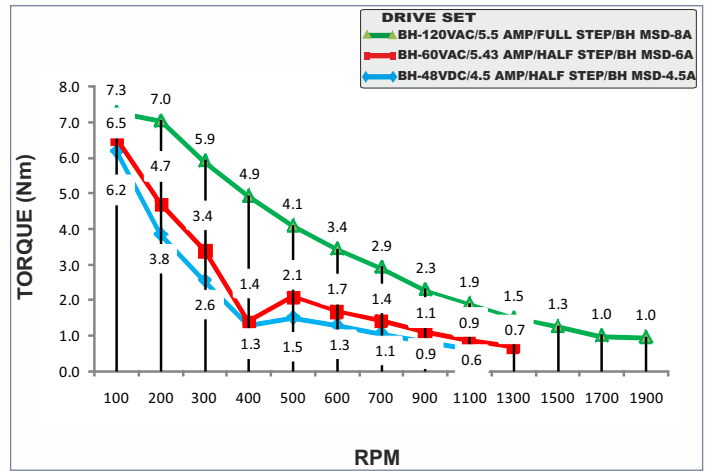
COMMITTED TO PRECISION

SIZE NEMA 34 (86MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

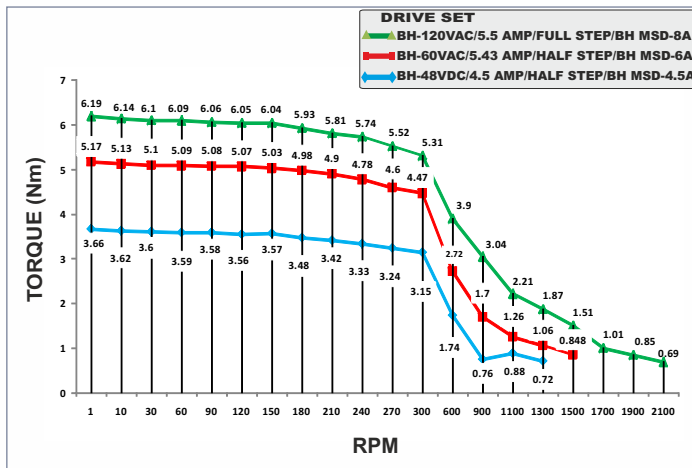
■ Model No : BH 86 SH 80 - 5504 AK (46 Kgcm)



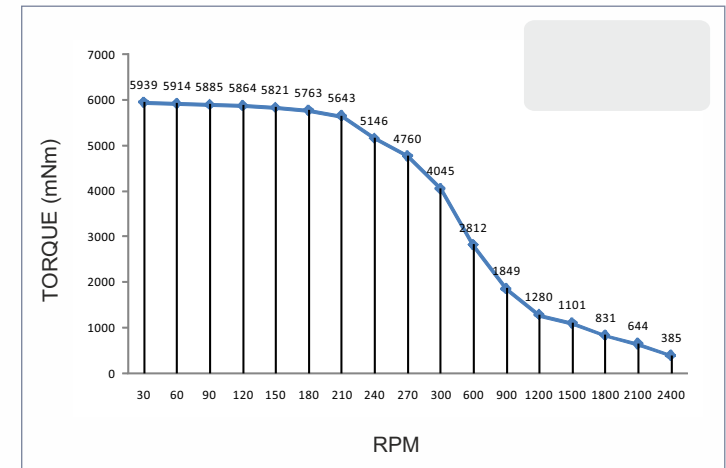
■ Model No : BH 86 SH 96 - 5604 AK (85.0 Kgcm)



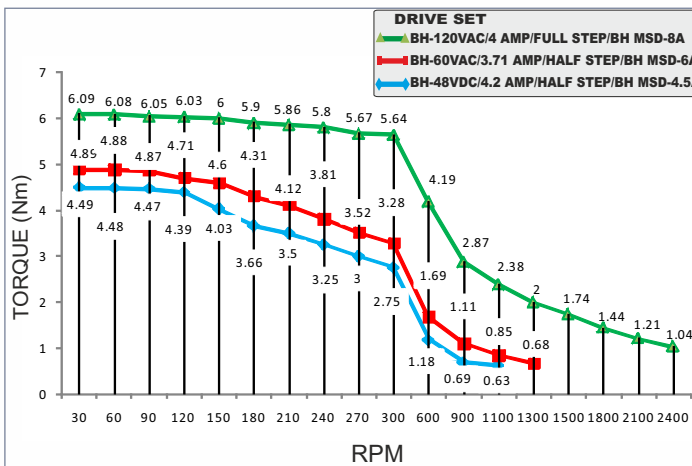
■ Model No : BH 86 SH 96 - 5504 AK (70.0 Kgcm)



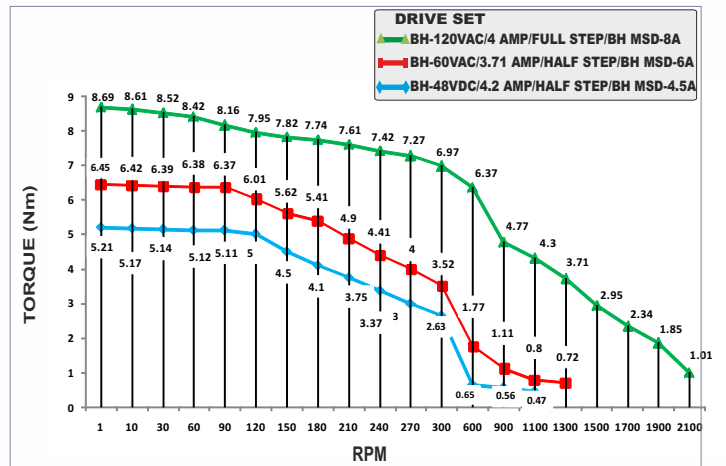
■ Model No : BH 86 SH 96 - 3004 AK (70.0 Kgcm)



■ Model No : BH 86 SH 96 - 4004 AK (68 Kgcm)



■ Model No : BH 86 SH 118 - 4004 AK (87.0 Kgcm)



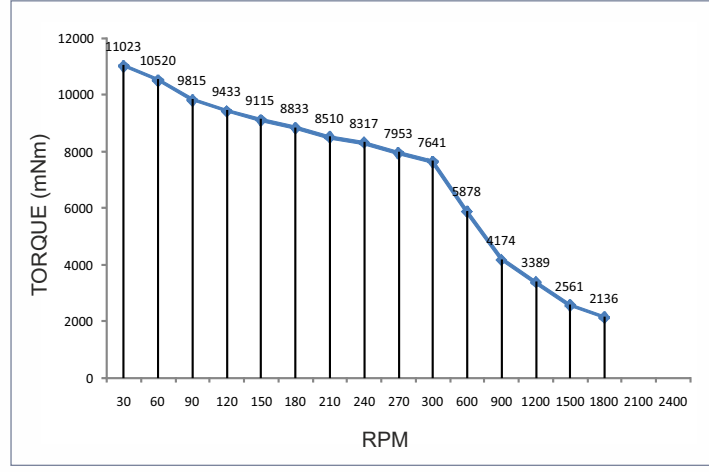
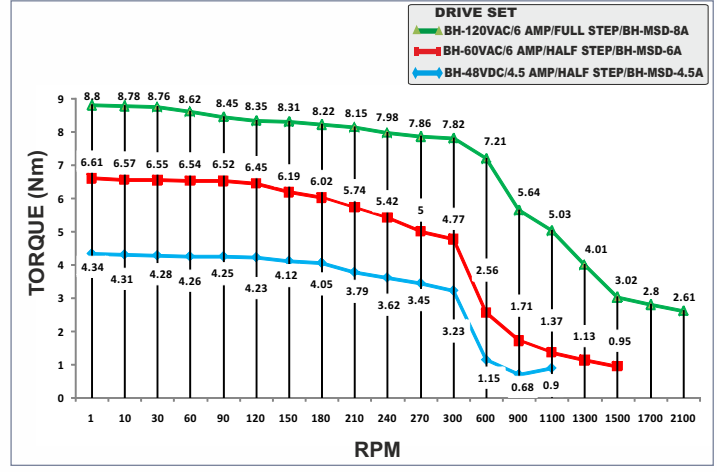


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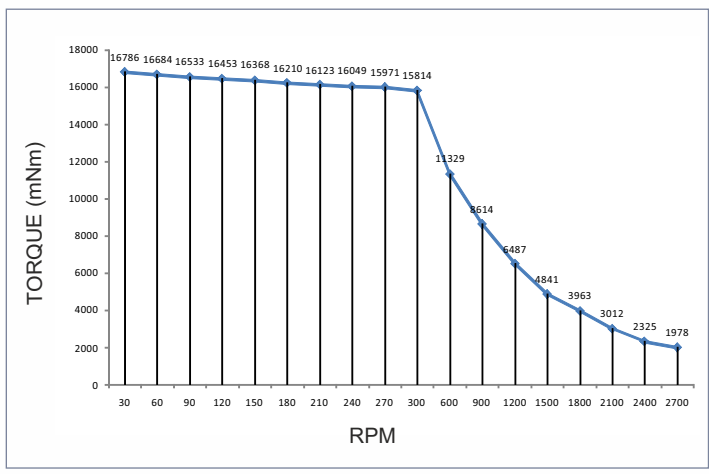
SIZE NEMA 34 (86MM) (SQUARE FRAME) BIPOLAR MOTORS - GRAPH

■ Model No : BH 86 SH 118 - 6004 AK (87.0 Kgcm)

■ Model No : BH 86 SH 156 - 6004 AK (128 Kgcm)



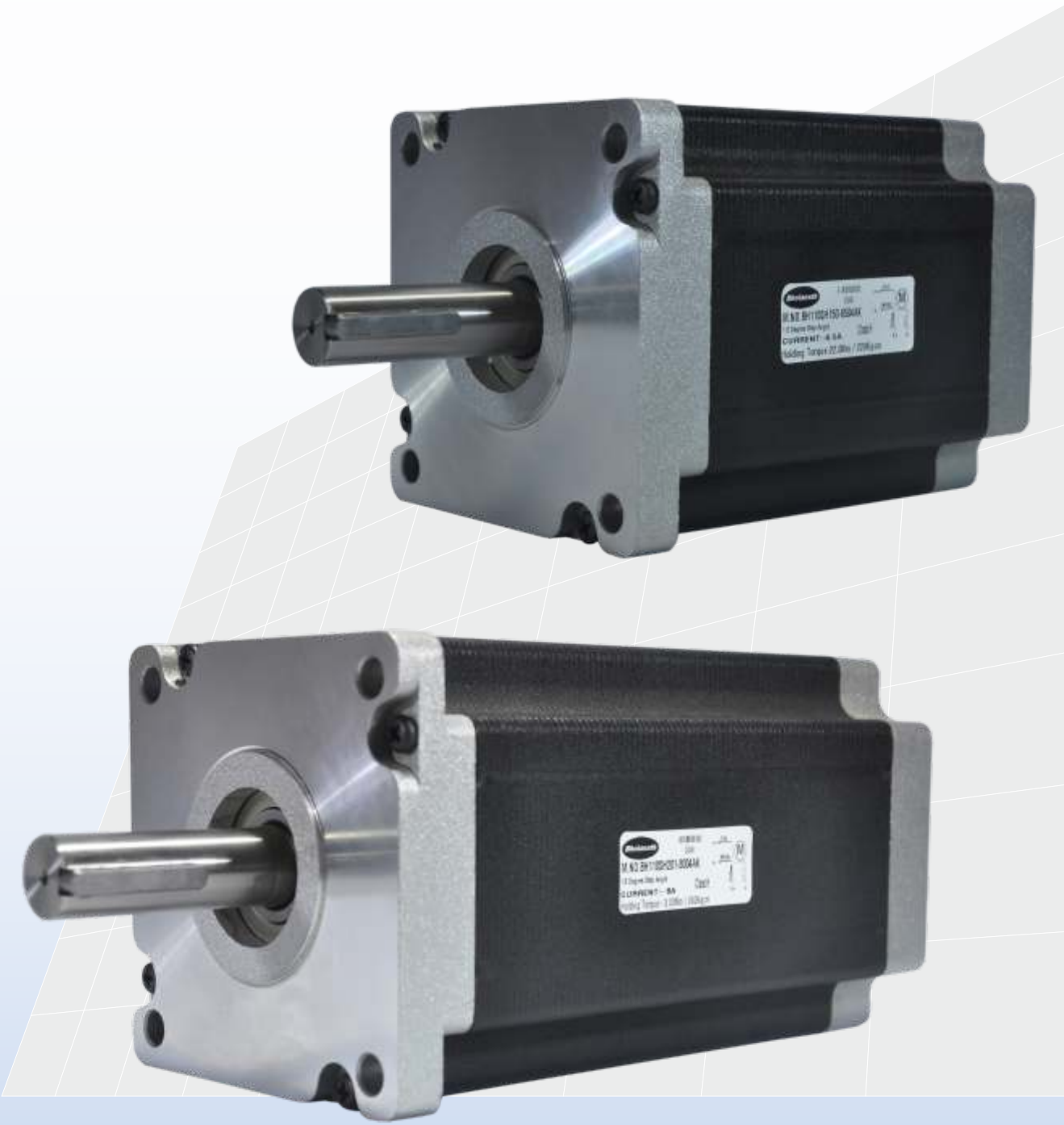
■ Model No : BH 86 SH 156 - 6204 AK (180.0 Kgcm)





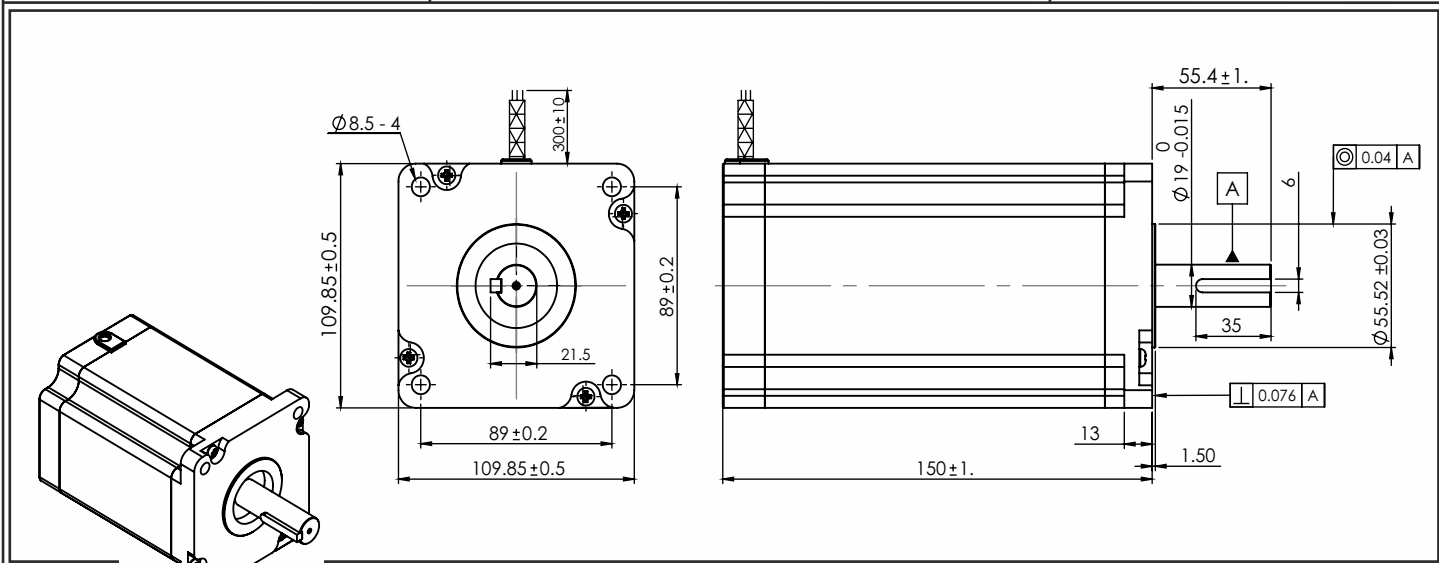
SIZE NEMA 37 (110MM)
2 - phase Stepping Motor
1.8° High Torque Hybrid Stepper Motor

BH 110 SH STEPPER MOTOR

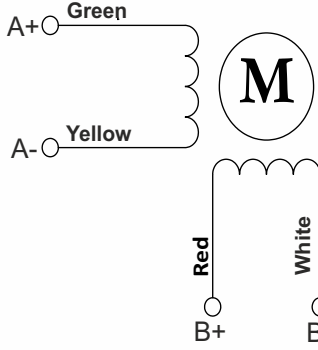


SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 110 SH 150 - 6504 AK
HIGH TORQUE HYBRID



TECHNICAL DATA

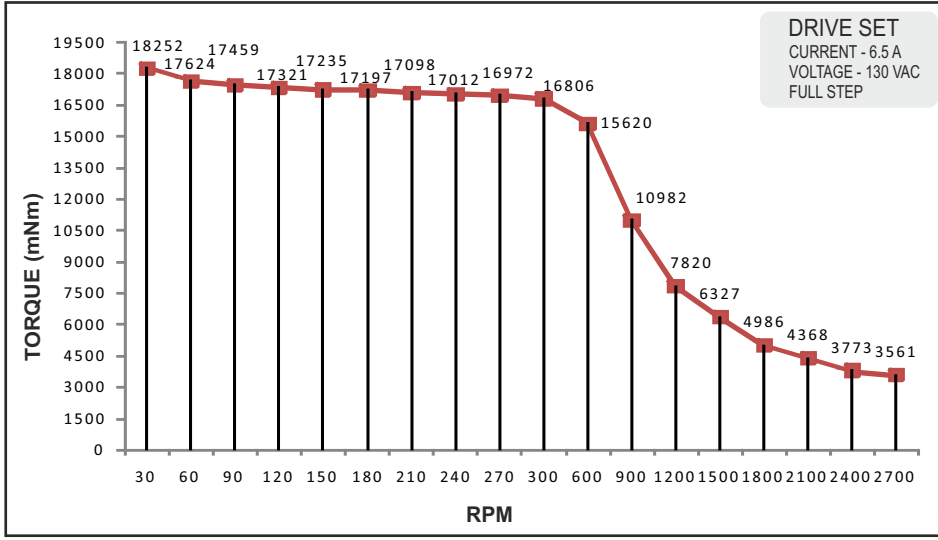


Wiring Diagram

SPECIFICATION		BH 110 SH 150 - 6504 AK	
	MODEL		Bipolar
1	Rated Voltage	V	6.5
2	Current / Phase	A	6.5
3	Resistance / Phase	± 10% Ω	1
4	Inductance / Phase	± 20% mH	15.89
5	Holding Torque	Nm	22
6	Rotor Inertia	G-CM ²	10900
7	Weight	KG.	8.4
8	No of Lead	N ^o	4
9	Operating Voltage	VAC	60 - 130
10	Operating Voltage	VDC	84 - 182

CHARACTERISTICS

- Step Angle - 1.8^o
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance
100 M Ohms Min. 500 VDC
- Dielectric Strength
1800 VAC For One Minute
- Shaft Radial Play
0.02 Max. Play (450 G Load)
- Shaft Axial Play
0.08 Max. Play (450 G Load)
- Max.Radial Force
220 N (20MM From Front Flange)
- Max.Axial Force
60 N

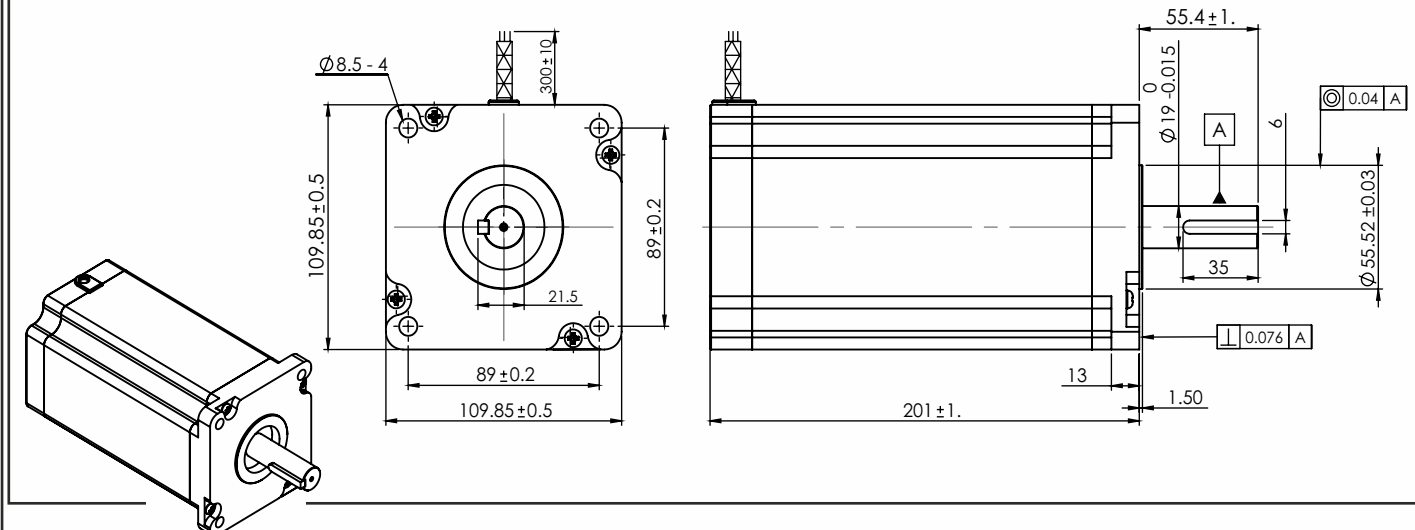


Bholanath Precision Engineering Pvt.Ltd.

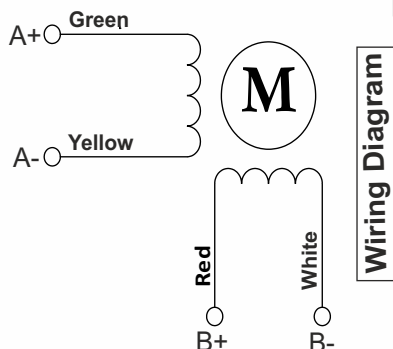
11,Kembros Ind.Estate , Sonapur Lane , Bhandup (W),Mumbai - 400078.
Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in
Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 110 SH 201 - 8004 AK
HIGH TORQUE HYBRID



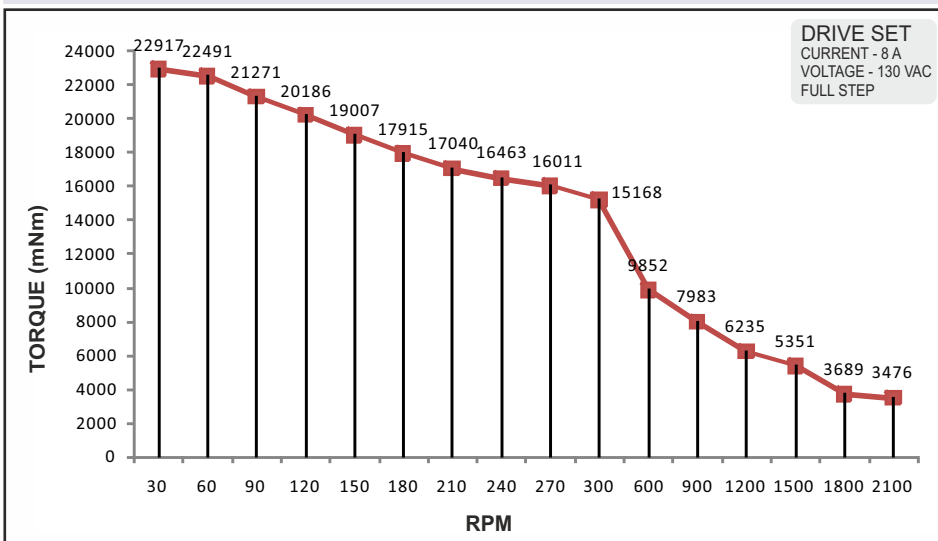
TECHNICAL DATA



SPECIFICATION		BH 110 SH 201 - 8004 AK	
1	Rated Voltage	V	5.84
2	Current / Phase	A	8
3	Resistance / Phase	± 10% Ω	0.73
4	Inductance / Phase	± 20% mH	14.01
5	Holding Torque	Nm	30
6	Rotor Inertia	G-CM ²	16200
7	Weight	KG.	11.7
8	No of Lead	N ^o	4
9	Operating Voltage	VAC	60 - 130
10	Operating Voltage	VDC	84 - 182

CHARACTERISTICS

- Step Angle - 1.8⁰
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance
100 M Ohms Min.500 VDC
- Dielectric Strength
1800 VAC For One Minute
- Shaft Radial Play
0.02 Max. Play (450 G Load)
- Shaft Axial Play
0.08 Max. Play (450 G Load)
- Max.Radial Force
220 N (20MM From Front Flange)
- Max.Axial Force
60 N



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 Bholanath COOL STEPPERS™ Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in
 Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.



SIZE NEMA 17 & 23 (42 & 57MM)
2 - phase Stepping Motor
1.8° High Torque Hybrid Stepper Motor

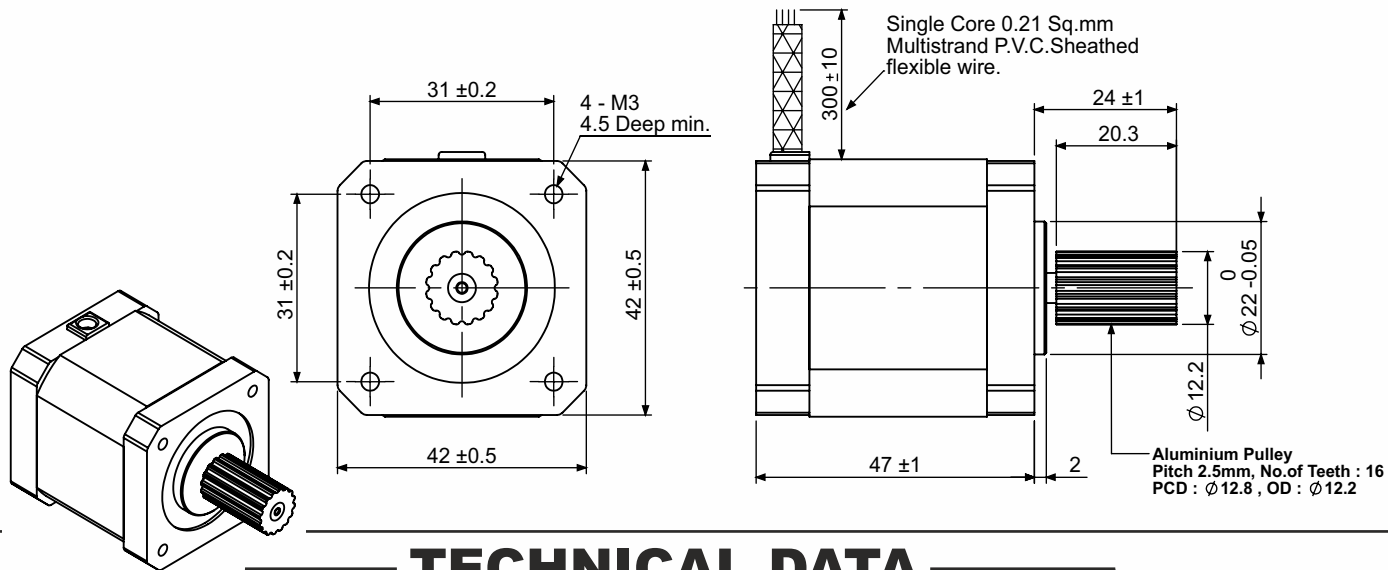
TIMING PULLEY MOTORS

Stepper Motor



SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH42 SH 47 - 1004A
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

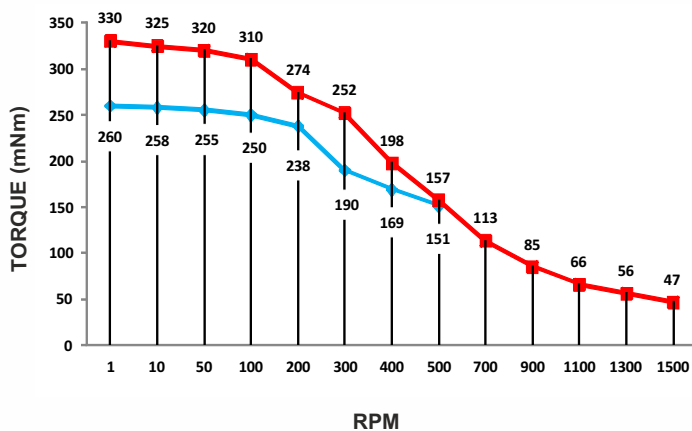
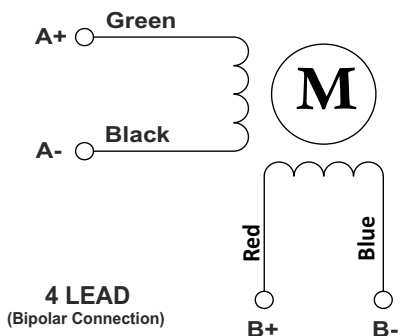
- Step Angle - 1.8°
- Step Angle Accuracy - ± 5%
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance
100 M Ohms Min.500 VDC
- Dielectric Strength
500 VAC For One Minute
- Shaft Radial Play
0.02 Max. Play (450 G Load)
- Shaft Axial Play
0.08 Max. Play (450 G Load)
- Max.Radial Force
28 N (20MM From Front Flange)
- Max.Axial Force
10 N

SPECIFICATION

BH 42 SH 47 - 1004 A

	MODEL		Bipolar
1	Rated Voltage	V	7.8
2	Current / Phase	A	1
3	Resistance / Phase	± 10% Ω	7.8
4	Inductance / Phase	± 20% mH	9.5
5	Holding Torque	Nm	0.42
6	Rotor Inertia	G-CM ²	68
7	Weight	KG.	0.365
8	No of Lead	N ^o	4
9	Operating Voltage	VAC	24 - 42

Wiring Diagram

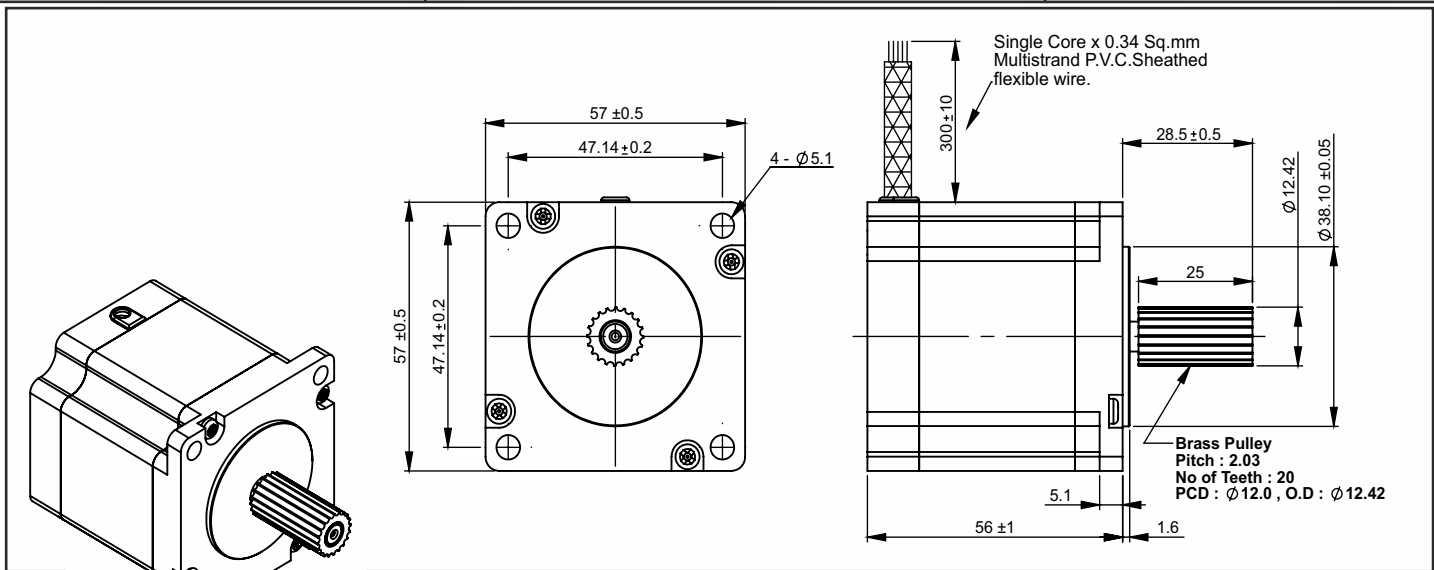


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SPECIFICATION SHEET
Bholanath

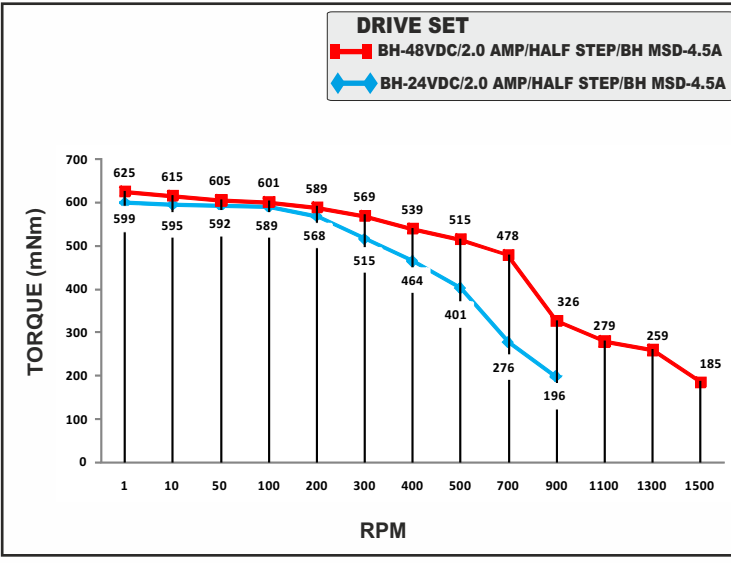
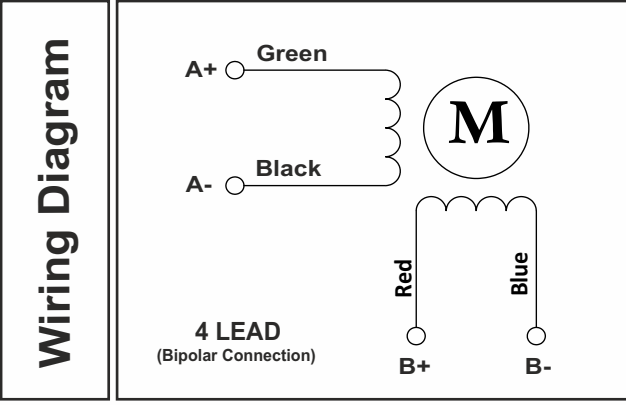
STEPPER MOTOR
BH 57 SH 56 - 2004 A
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS	
Step Angle	- 1.8°
Step Angle Accuracy	- ± 5%
Insulation Class	- H
Ambient Temperature	- (- 20°C to + 50°C)
Temperature Rise	- 80°C Max. (Rated Current Phase 2 ON)
Insulation Resistance	100 M Ohms Min.500 VDC
Dielectric Strength	500 VAC For One Minute
Shaft Radial Play	0.02 Max. Play (450 G Load)
Shaft Axial Play	0.08 Max. Play (450 G Load)
Max.Radial Force	75 N (20MM From Front Flange)
Max.Axial Force	15 N

SPECIFICATION		BH 57 SH 56 - 2004 A	
	MODEL		Bipolar
1	Rated Voltage	V	3.6
2	Current / Phase	A	2
3	Resistance / Phase	± 10% Ω	1.8
4	Inductance / Phase	± 20% mH	4.1
5	Holding Torque	Nm	1.26
6	Rotor Inertia	G-CM ²	300
7	Weight	KG.	0.72
8	No of Lead	N ⁰	4
9	Operating Voltage	VAC	12 - 24



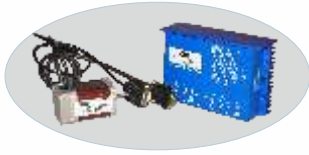
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 Bholanath COOL STEPPERS™ Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in
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STEP SERVO



BHSS - 25 W STEP SERVO MOTOR

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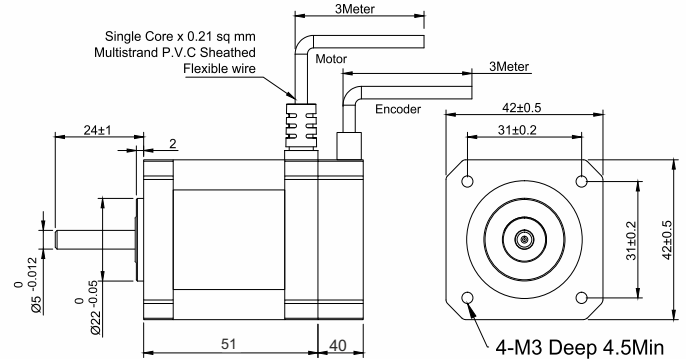
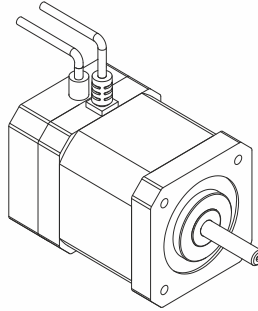
 Committed to precision
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Closed Loop Stepping System which includes High Speed (>1500 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

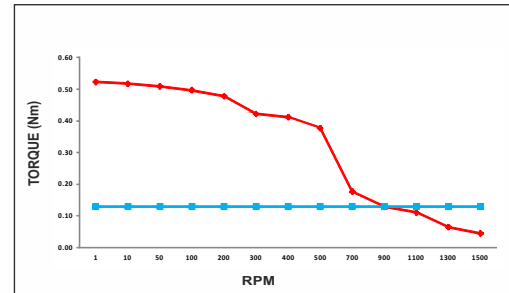
SUITABILITY - The BHSS - 25 W Step Servo is comparable to 25 Watts Servo Motor upto 1100 RPM. The Step - Servo Motor BHSS - 25 W gives more torque at lower RPM's thus giving a better performance than 25 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - 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)



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



Motor Options Available -

Standard Model - S
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Spur Gearbox - SG
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-25W - S - 1000 - 3MTR. - IP 60-N

BHSS - 50 W STEP SERVO MOTOR

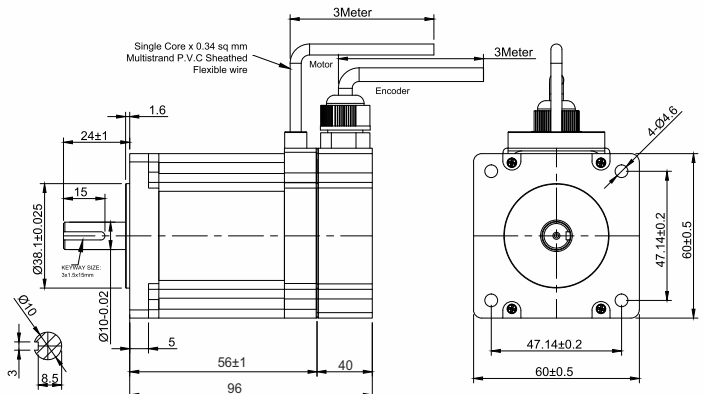
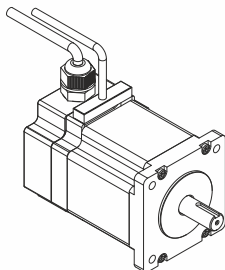


Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

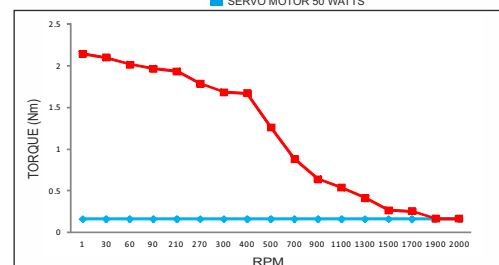
SUITABILITY - The BHSS - 50 W Step Servo is comparable to 50 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 50 W gives more torque at lower RPM's thus giving a better performance than 50 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - 30 VAC / 42 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)



■ BHOANATH STEP SERVO MOTOR BHSS - 50 W
 ■ SERVO MOTOR 50 WATTS



Motor Options Available -

Standard Model - S
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Spur Gearbox - SG
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS-50W - S - 1000 - 3MTR. - IP 60-N

BHSS - 100 W STEP SERVO MOTOR

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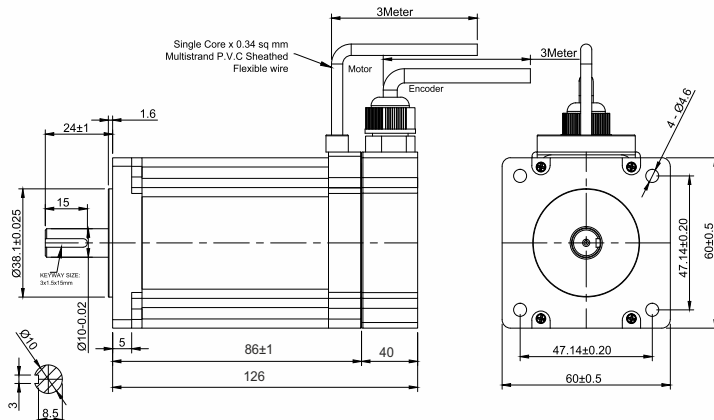
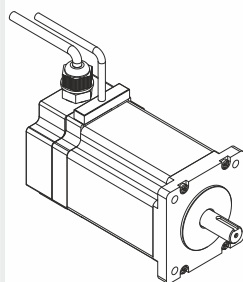

Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 100 W Step Servo is comparable to 100 Watts Servo Motor upto 1300 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.

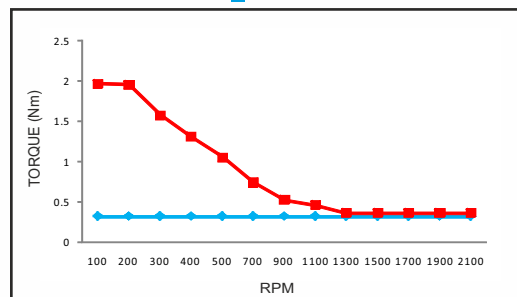
Characteristics

Power Input - 36 VAC / 50 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 -
 Standard Model - **S**
 With Low Backlash Planetary Gearbox - **PL**
 With Electro Magnetic Brake - **BR**
 With Spur Gearbox - **SG**
 CE Certificate - **N** - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 100 W - S - 1000 - 3MTR.- IP 60-N



■ BHOANATH STEP SERVO MOTOR BHSS - 100 W
 ■ SERVO MOTOR 100 WATTS



BHSS - 200 W STEP SERVO MOTOR



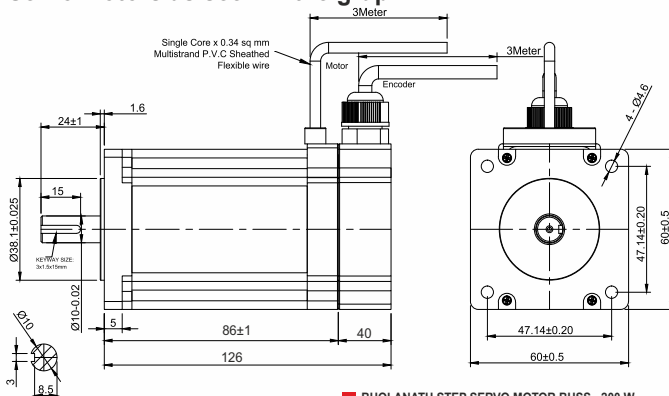
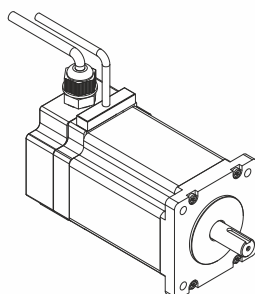
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 200 W Step Servo is comparable to 200 Watts Servo Motor upto 1100 RPM. 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.

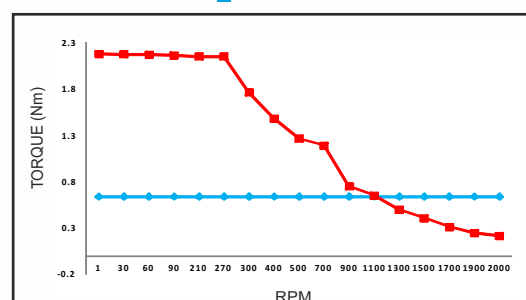
Characteristics

Power Input - 36 VAC / 50 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 -
 Standard Model - **S**
 With Low Backlash Planetary Gearbox - **PL**
 With Electro Magnetic Brake - **BR**
 With Spur Gearbox - **SG**
 CE Certificate - **N** - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 200W - S - 1000 - 3MTR.- IP 60-N



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



BHSS - 200 W-HT STEP SERVO MOTOR

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

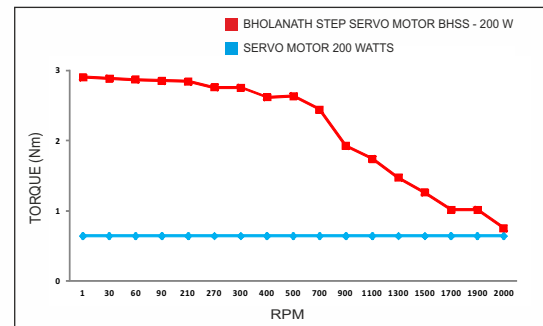
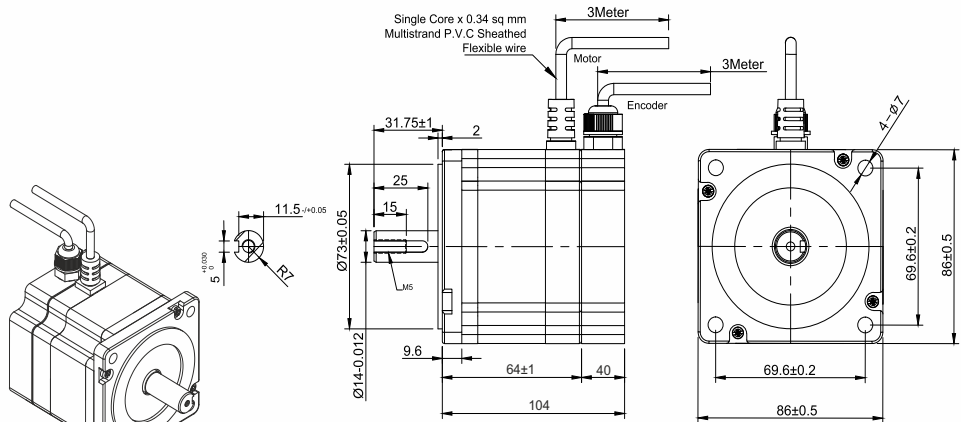
SUITABILITY - The BHSS - 200 W Step Servo is comparable to 200 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 200 W gives more torque at lower RPM's thus giving a better performance than 200 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - 65 VAC / 90 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 - 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 -

Standard Model - S
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Spur Gearbox - SG
CE Certificate - N - STANDARD/ICE - CERTIFIED
ORDERING CODE - BHSS- 200 W - HT - S - 1000 - 3MTR. - IP 60-N



BHSS - 400 W STEP SERVO MOTOR

Bholanath



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

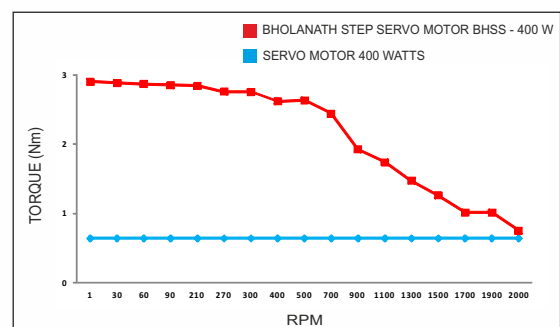
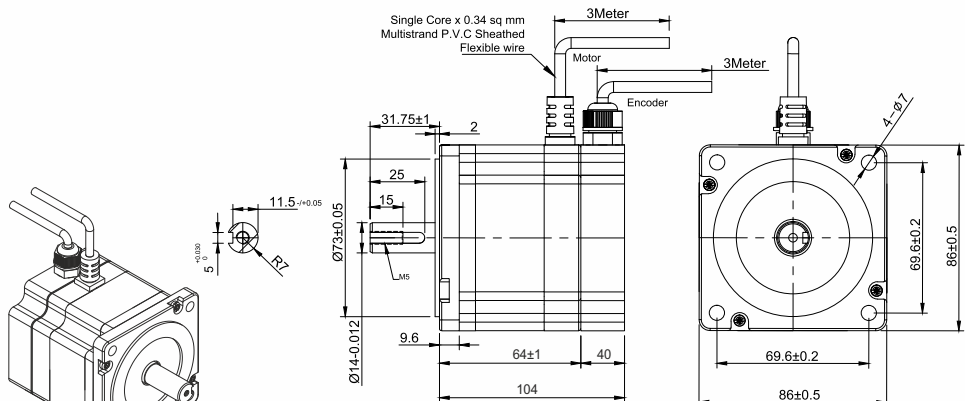
SUITABILITY - The BHSS - 400 W Step Servo is comparable to 400 Watts Servo Motor upto 2000 RPM. The Step - Servo Motor BHSS - 400 W gives more torque at lower RPM's thus giving a better performance than 400 Watts Servo Motors as seen in the graph.

Characteristics

Power Input - 65 VAC / 90 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 - 2.70 Kg
Current Per Phase - 4.0 A
Torque - 3.4 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 -

Standard Model - S
With Low Backlash Planetary Gearbox - PL
With Electro Magnetic Brake - BR
With Spur Gearbox - SG
CE Certificate - N - STANDARD/ICE - CERTIFIED
ORDERING CODE - BHSS- 400 W - S - 1000 - 3MTR. - IP 60-N



BHSS - 600 W STEP SERVO MOTOR



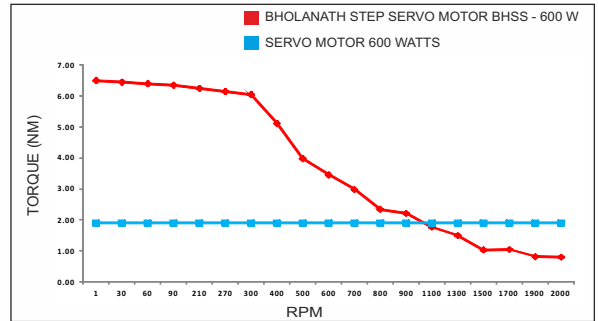
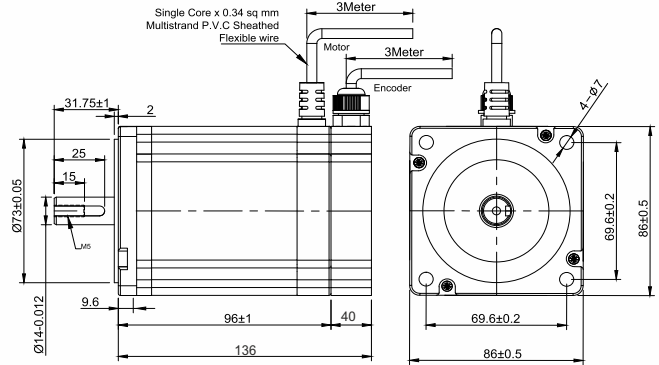
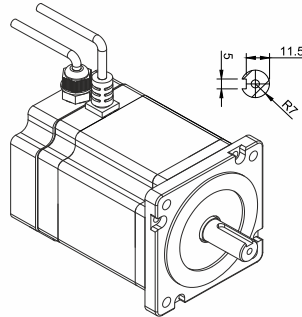
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 600 W Step Servo is comparable to 600 Watts Servo Motor upto 1100 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 - 65 VAC / 90 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 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 -
 Standard Model - **S**
 With Low Backlash Planetary Gearbox - **PL**
 With Electro Magnetic Brake - **BR**
 With Spur Gearbox - **SG**
 CE Certificate - **N - STANDARD/CE - CERTIFIED**
ORDERING CODE - BHSS-600 W - S - 1000 - 3MTR.- IP 60-N



BHSS - 750 W STEP SERVO MOTOR



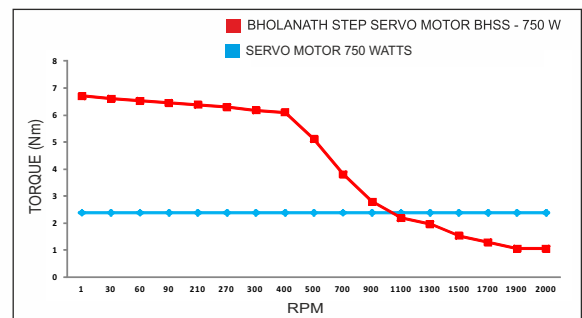
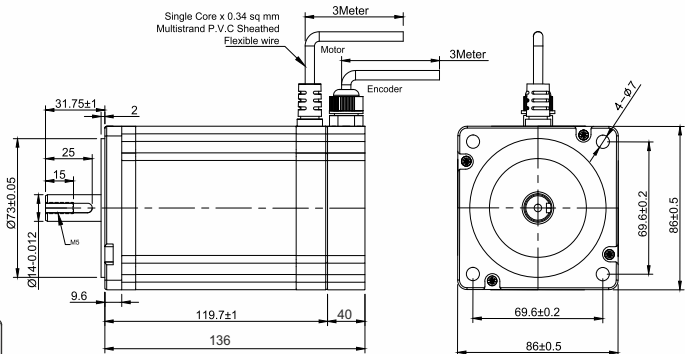
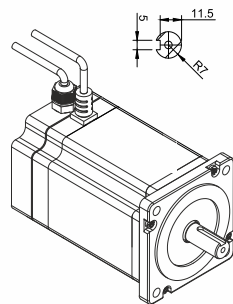
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 750 W Step Servo is comparable to 750 Watts Servo Motor upto 1100 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 - 65 VAC / 90 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 - 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)

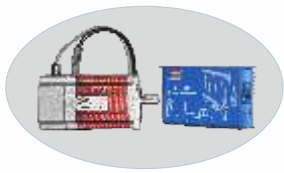
Motor Options Available -
 Standard Model - **S**
 With Low Backlash Planetary Gearbox - **PL**
 With Electro Magnetic Brake - **BR**
 With Spur Gearbox - **SG**
 CE Certificate - **N - STANDARD/CE - CERTIFIED**
ORDERING CODE - BHSS-750 W - S - 1000 - 3MTR.- IP 60-N



BHSS - 1000 W STEP SERVO MOTOR



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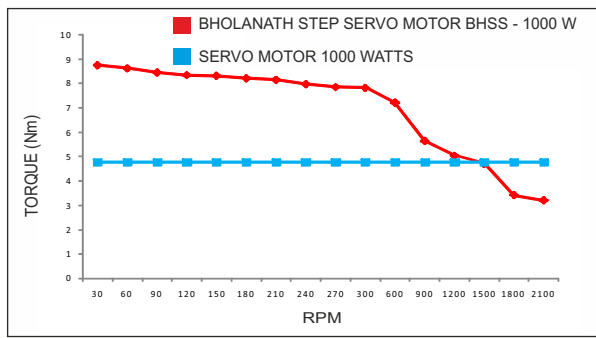
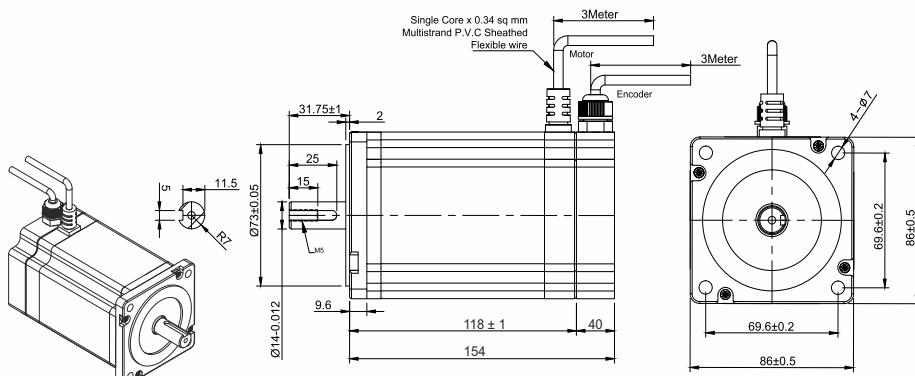
Closed Loop Stepping System which includes High Speed (>2000 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

SUITABILITY - The BHSS - 1000 W Step Servo is comparable to 1000 Watts Servo Motor upto 1500 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 - 65 VAC / 90 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 - 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 -
 Standard Model - S
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Spur Gearbox - SG
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 1000 W - S - 1000 - 3MTR.- IP 60-N



BHSS - 1500 W STEP SERVO MOTOR



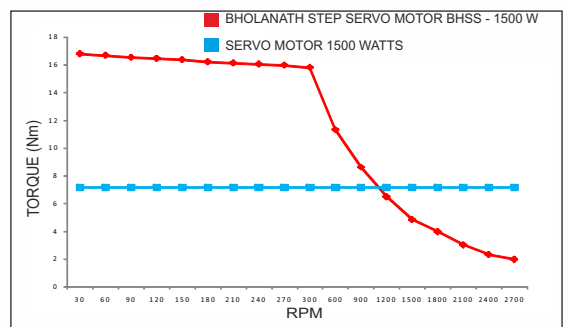
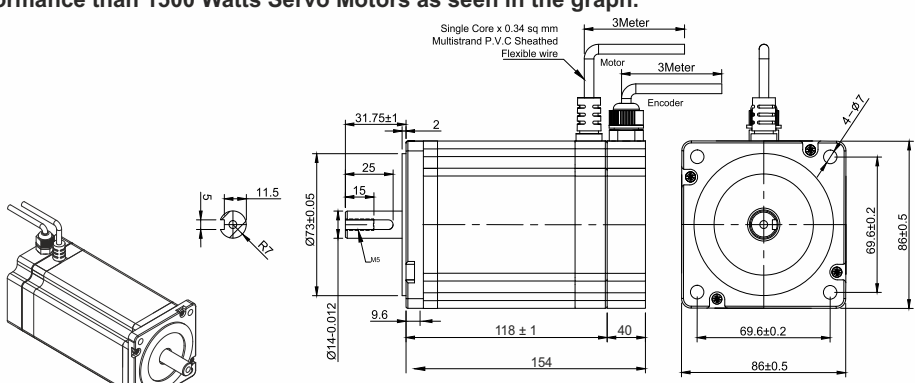
Closed Loop Stepping System which includes High Speed (>1500 RPM) Stepper Motors with Incremental Optical Encoders, Digital Drives and 3 Meter Cable.

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 - 65 VAC / 90 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 - 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 -
 Standard Model - S
 With Low Backlash Planetary Gearbox - PL
 With Electro Magnetic Brake - BR
 With Spur Gearbox - SG
 CE Certificate - N - STANDARD/CE - CERTIFIED
ORDERING CODE - BHSS- 1500 W - S - 1000 - 3MTR.- IP 60-N





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CUSTOMIZED STEPPER MOTORS –

Bholanath manufactures specially designed stepper motors for customers as per their requirements and specifications.

Bholanath offers customized motors to all customers, for large and small volume orders.

The customization includes simple modifications such as special output shafts, threaded shafts, special wirings, connectors, timing pulleys, gears etc.

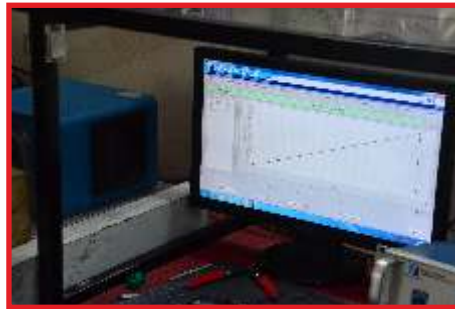


2 - phase Stepping Motor 1.8° High Torque Hybrid Stepper Motor

CUSTOMIZED MOTORS Stepper Motor



MANUFACTURING FACILITY



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