

Bholanath

Precision Engineering Pvt.Ltd.



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Manufacturers of
1.8° Hybrid high Torque Step - Servo's ,
Stepper Motors & Drives

Contents

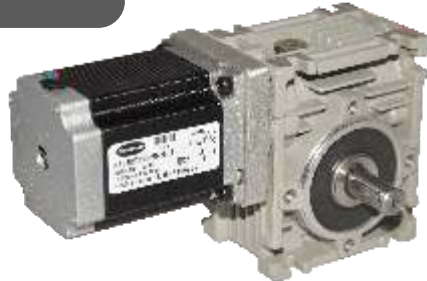
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- ☞ Planetary Gear Stepper Motors
- ☞ Hollow Shaft Stepper Motors
- ☞ Brake Stepper Motors



Brake Stepper Motor



Planetary Gear Stepper Motor



Helical Worm Gear Stepper Motor



Hollow Shaft Stepper Motor



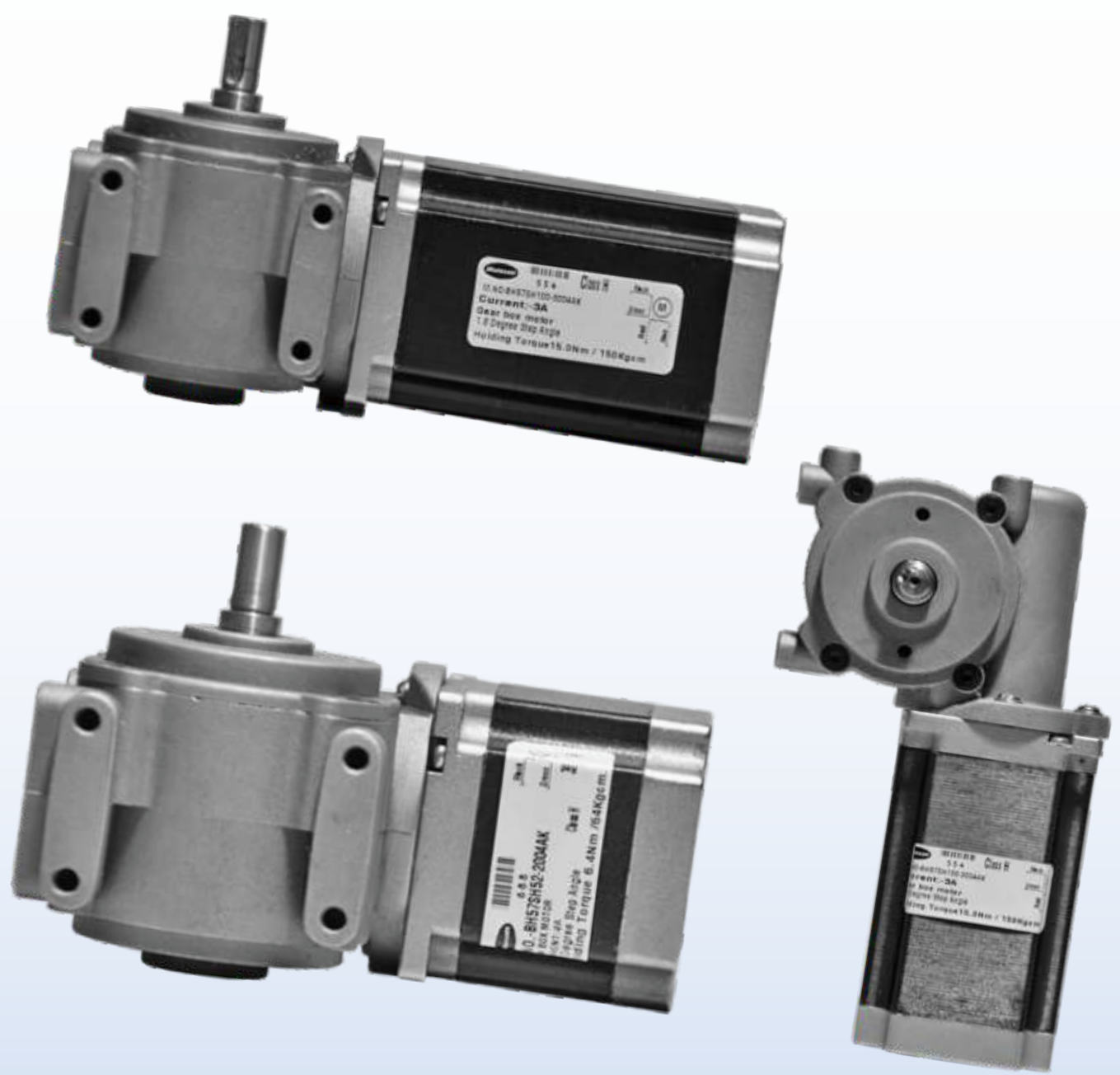
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SIZE NEMA 23 (57MM)
2 - phase Stepping Motor
1.8° High Torque Hybrid Stepper Motor

HELICAL WORM GEARBOX

Stepper Motor



SPECIFICATION SHEET

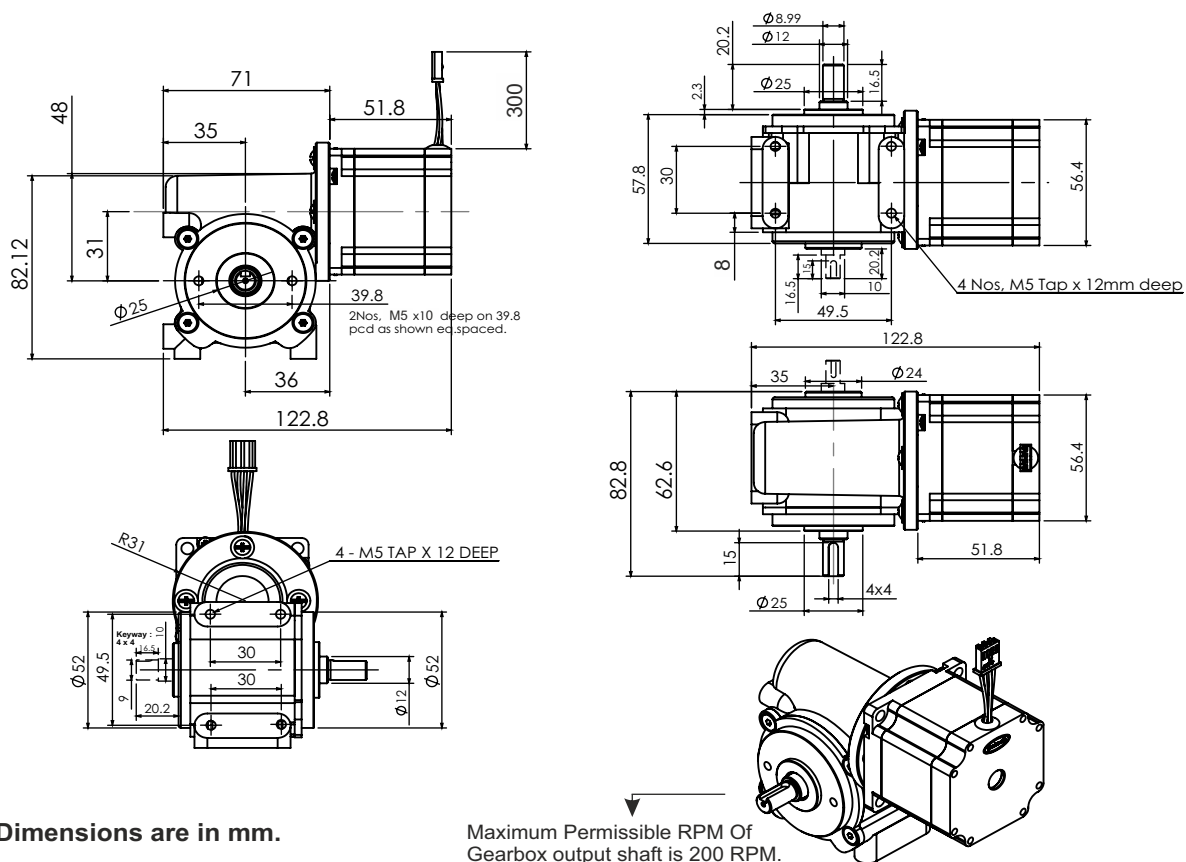
Bholanath

STEPPER MOTOR

BH57 SH 52 - 2004 AK

HIGH TORQUE HYBRID

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CHARACTERISTICS

Motor - Bipolar

Steps per Revolution - 200

Step Angle - 1.8 degree

Motor Step Angle Accuracy - ± 3 Arc Minute

Dimensions - Refer drawing

Weight with Gear box - 1.20 Kg

Insulation Class - Class H

Protection Class - DIN40050 - Ip30

Resistance of Insulation - 100M Ω

Resistance per phase - 0.85 / 0.86 Ω

Inductance per phase - 2.22 / 2.14 mH

Normal current per phase - 2 Amp

Normal Power - 7 Watt

Operating Voltage - 42 - 48 Vdc

Stock Temperature - -10°C To 40°C

Operation Temperature - -10°C To 40°C

Holding Torque for Motor - 0.8 Nm

Holding Torque of gear Box - 6.4 Nm (64Kgcm)

Shaft Axial Play - 0.08 MmmMax(450 G Load)

Shaft Radial Play - 0.02 MmmMax(450 G Load)

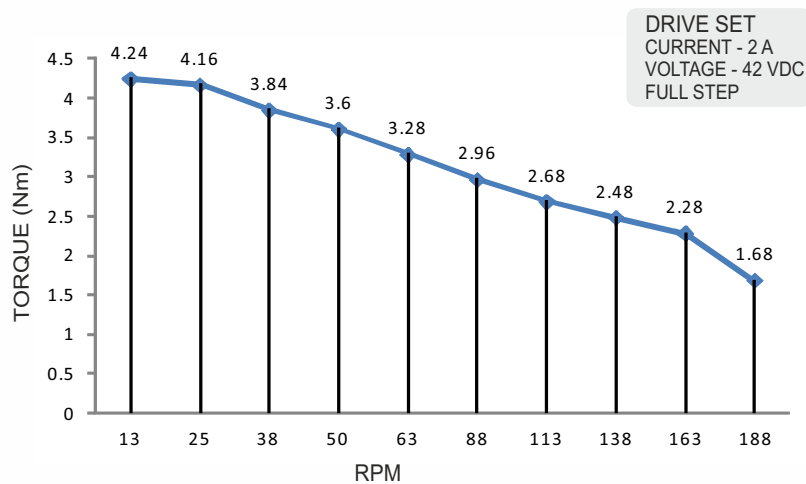
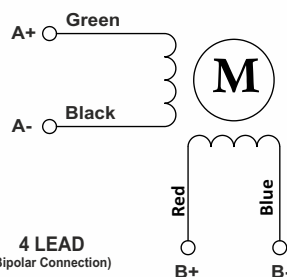
Gear Box Ratio - 8:1

Backlash ≤ 0.8 Degree

Rotor Inertia of Motor - 273.13 GM-CM²

Rotor Inertia of Gearbox - 137.75 GM-CM²

Wiring Diagram

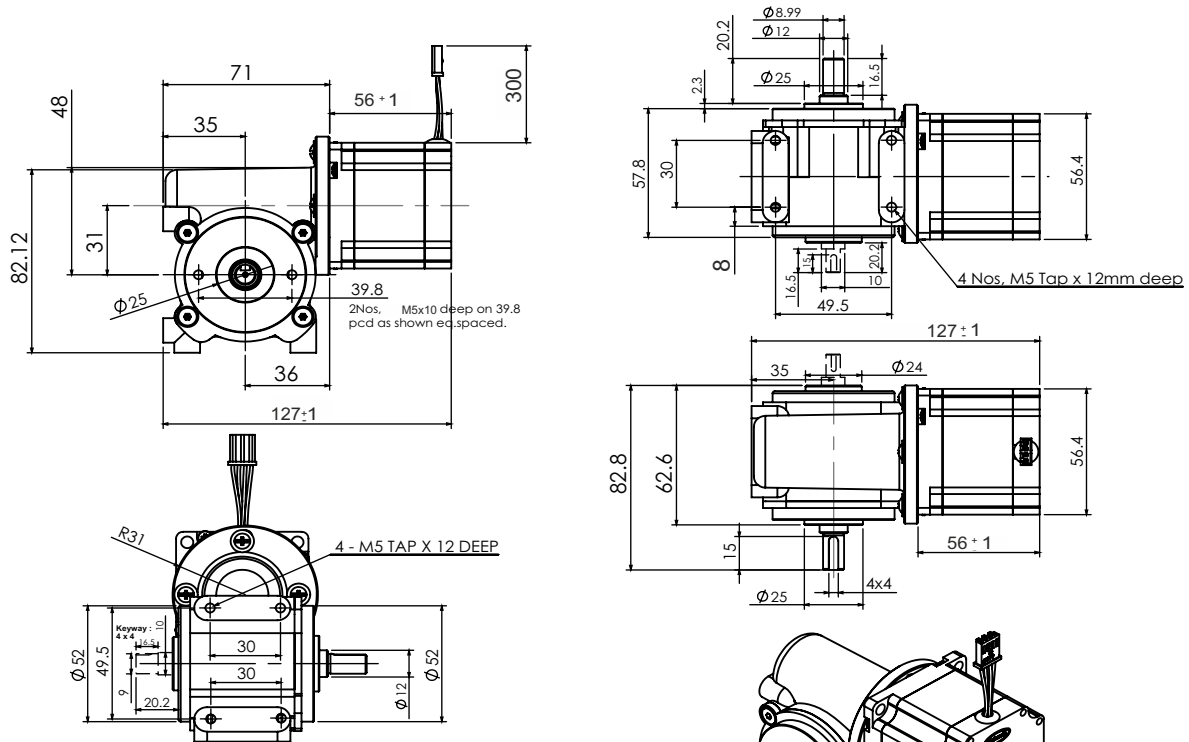


GEAR BOX STEPPER MOTOR - BH57SH52-2004AK

Revision-02, Dated:- 20/07/2017

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH57 SH 56 - 2804 AK
HIGH TORQUE HYBRID



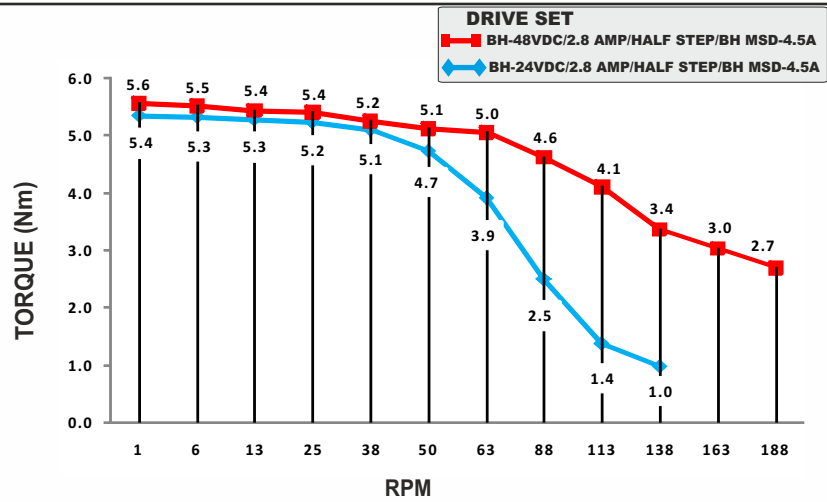
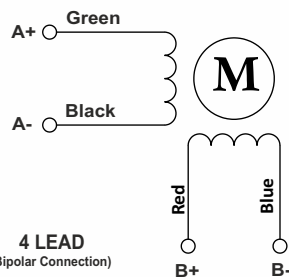
All Dimensions are in mm.

Maximum Permissible RPM Of Gearbox output shaft is 200 RPM.

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 1.27 Kg
Insulation Class - Class H
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω
Resistance per phase - 1.01 / 1.02 Ω
Inductance per phase - 2.5 / 2.64 mH
Normal current per phase - 2.8 Amp
Normal Power - 7 Watt
Operating Voltage - 42-48 Vdc
Stock Temperature - 10°C To 40°C
Operation Temperature - 10°C To 40°C
Holding Torque for Motor - 1.26 Nm
Holding Torque of gear Box - 9.6 Nm (96Kgcm)
Shaft Axial Play - 0.08 MmmMax(450 G Load)
Shaft Radial Play - 0.02 MmmMax(450 G Load)
Gear Box Ratio - 8:1
Backlash ≤ 0.8 Degree
Rotor Inertia of Motor - 300 GM-CM ²
Rotor Inertia of Gearbox - 137.75 GM-CM ²

Wiring Diagram



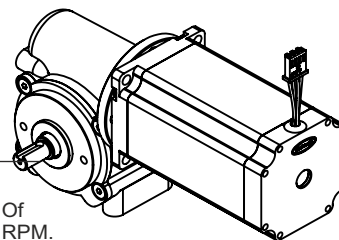
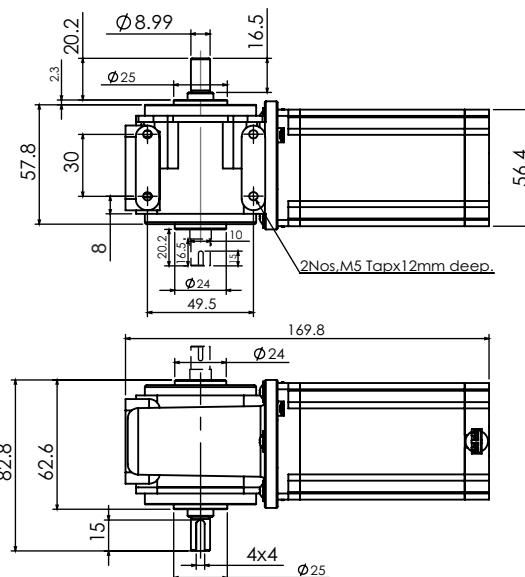
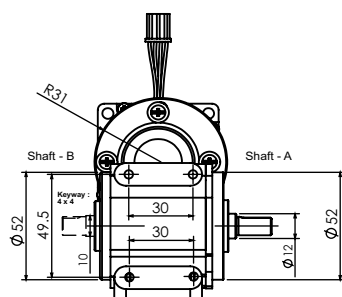
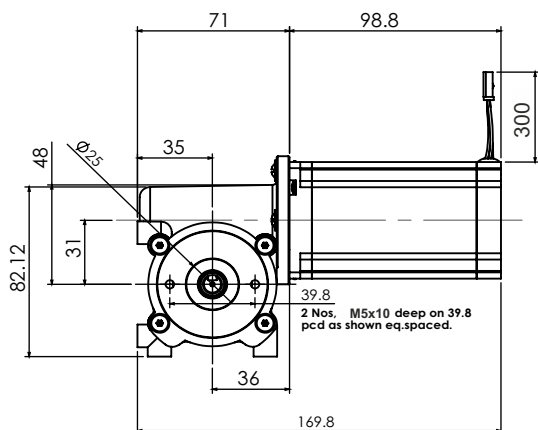
GEAR BOX STEPPER MOTOR - BH57SH56-2804AK

Revision-03, Dated:- 12/04/2017

**SPECIFICATION
SHEET**
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STEPPER MOTOR
BH57 SH 100 - 3004 AK
HIGH TORQUE HYBRID

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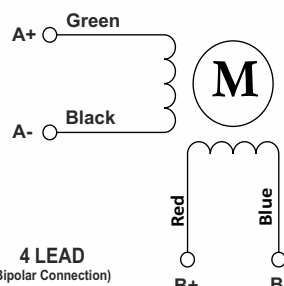
All Dimensions are in mm.

Maximum Permissible RPM Of
Gearbox output shaft is 200 RPM.

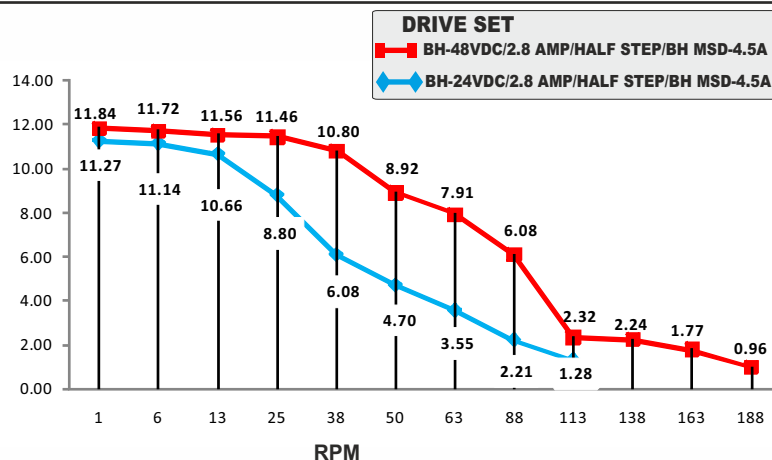
CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 2.10 Kg
Insulation Class - Class H
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 1.55 / 1.56 Ω
Inductance per phase - 6.4 / 6.6 mH
Normal current per phase - 3 Amp
Normal Power - 18 Watt
Operating Voltage - 42-48 Vdc
Stock Temperature - -10 ^o C To 70 ^o C
Operation Temperature - -10 ^o C To 40 ^o C
Holding Torque for Motor - 2.5 Nm
Holding Torque of gear Box - 15.0 Nm (150Kgcm)
Shaft Axial Play - 0.08 MmmMax(450 G Load)
Shaft Radial Play - 0.02 MmmMax(450 G Load)
Gear Box Ratio - 8:1
Backlash ≤ 0.8 Degree
Rotor Inertia of Motor 570 - GM CM ²
Rotor Inertia of Gearbox 144.23 - GM CM ²

Wiring Diagram



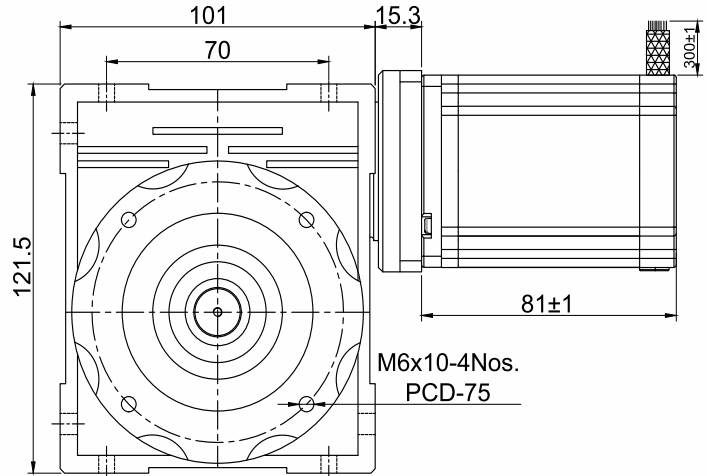
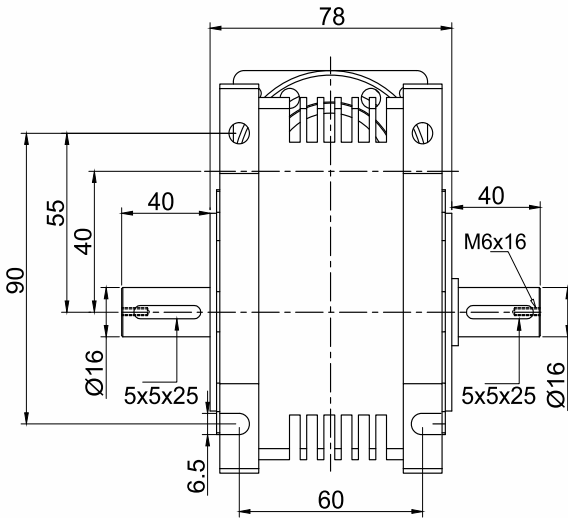
TORQUE (Nm)



GEAR BOX STEPPER MOTOR - BH57SH100-3004AK

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 57 SH 81 - 2804 HL
HIGH TORQUE HYBRID



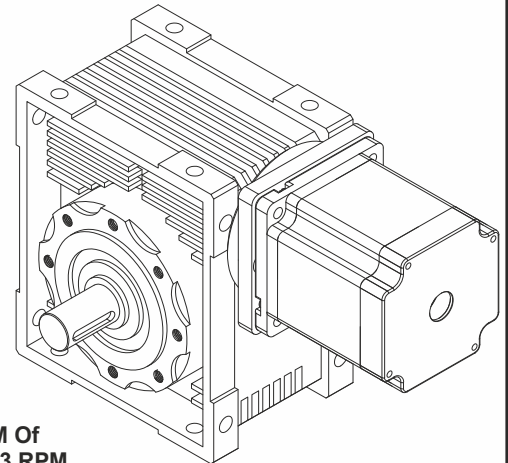
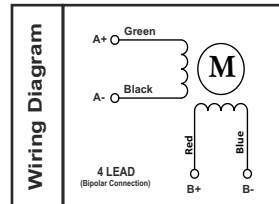
Modification Date 04.08.2017

AMENDMENT
O/P Shaft Ø19mm TO Ø16mm.

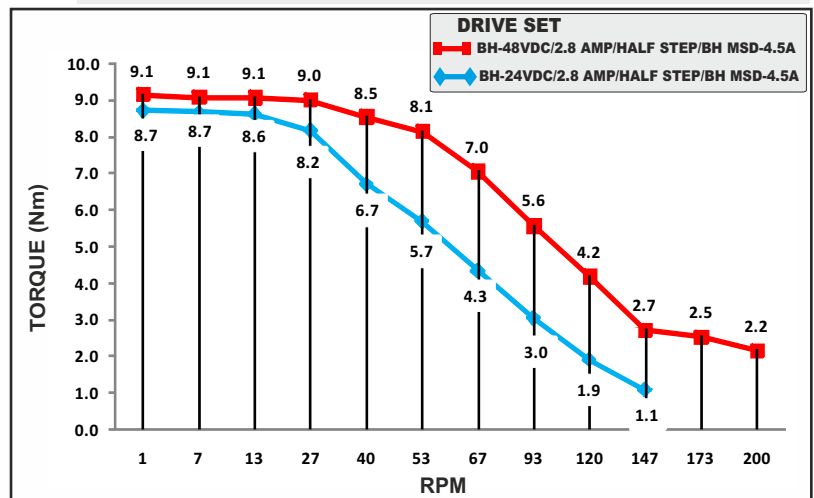
TECHNICAL DATA

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 4.0 Kg
Insulation Class - Class 155
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω
Resistance per phase ±10% - 1.3 / 1.31Ω
Inductance per phase ±20% - 4.49 / 4.42 mH
Normal current per phase - 2.8 Amp
Normal Power - 10.19 Watt
Rated Voltage - 3.35
Operating Voltage - 24 - 48 Vdc
Stock Temperature - 10°C To 40°C
Operation Temperature -10°C To 40°C
Holding Torque for Motor - 22 Nm
Holding Torque With gear Box - 16.5 Nm (165Kgcm)
Admissible Radial Load < 1315 N
Gear Box Ratio - 7.5:1
Backlash ≤ 0.8 Degree



Maximum Permissible RPM of Gearbox output shaft is 133 RPM.



MOTOR MODEL - BH57SH81-280HL



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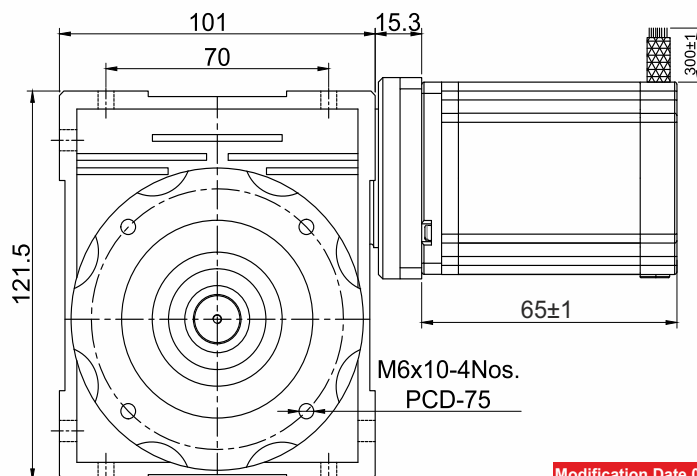
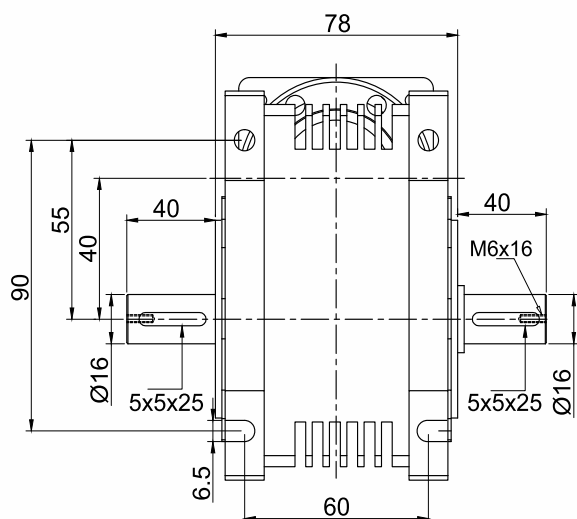
Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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

**SPECIFICATION
SHEET**
Bholanath

STEPPER MOTOR
BH 60 SH 65 - 2804 HL-10
HIGH TORQUE HYBRID

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Modification Date 04.08.2017

AMENDMENT

O/P Shaft Ø19mm TO Ø16mm.

TECHNICAL DATA

CHARACTERISTICS

Motor - Bipolar

Steps per Revolution - 200

Step Angle - 1.8 degree

Motor Step Angle Accuracy - ± 3 Arc Minute

Dimensions - Refer drawing

Weight with Gear box - 4.0 Kg

Insulation Class - Class 155

Protection Class - DIN40050 - Ip30

Resistance of Insulation - 100M Ω

Resistance per phase $\pm 10\%$ - 1.2 / 1.21 Ω

Inductance per phase $\pm 20\%$ - 4.25 / 4.2 mH

Normal current per phase - 2.8 Amp

Normal Power - 9.408 Watt

Rated Voltage - 3.36

Operating Voltage - 24 - 48 Vdc

Stock Temperature - -10°C To 40°C

Operation Temperature - -10°C To 40°C

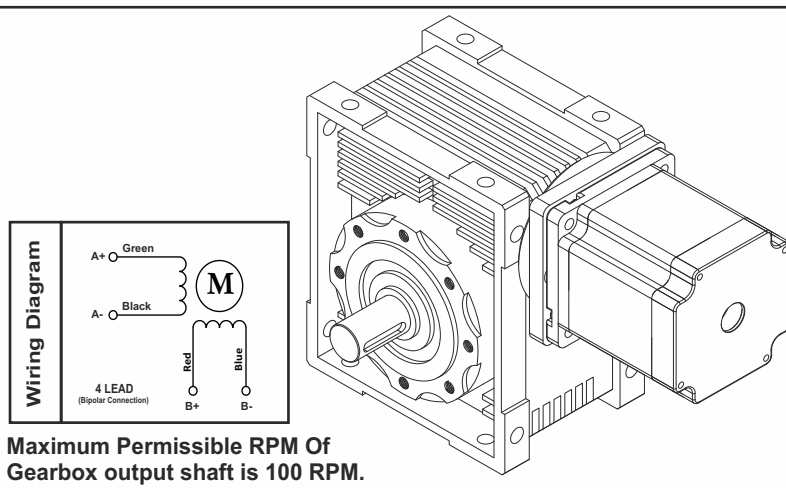
Holding Torque for Motor - 2.1 Nm

Holding Torque With gear Box - 21.0 Nm (210Kgcm)

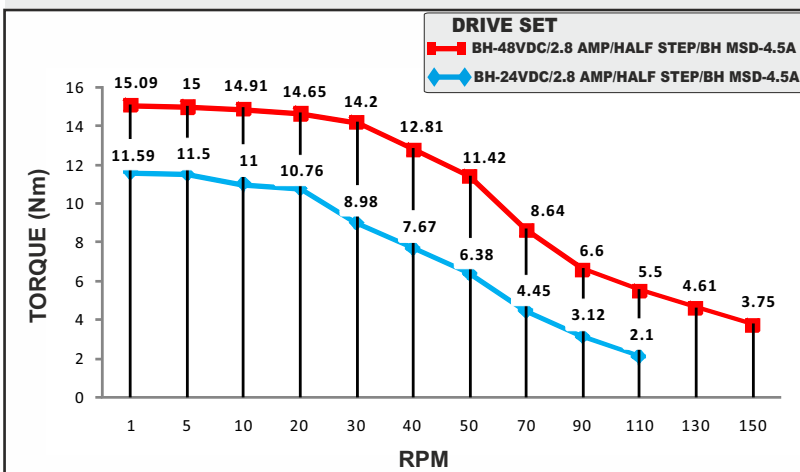
Admissible Radial Load < 1447 N

Gear Box Ratio - 10:1

Backlash ≤ 0.8 Degree



Maximum Permissible RPM of Gearbox output shaft is 100 RPM.



MOTOR MODEL - BH60SH65-2804HL-10

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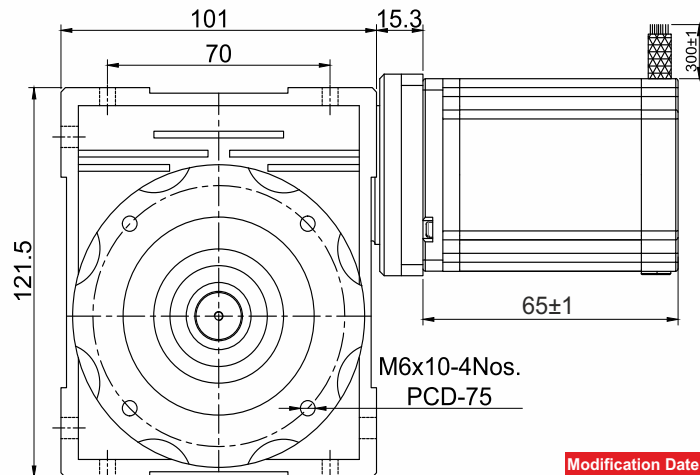
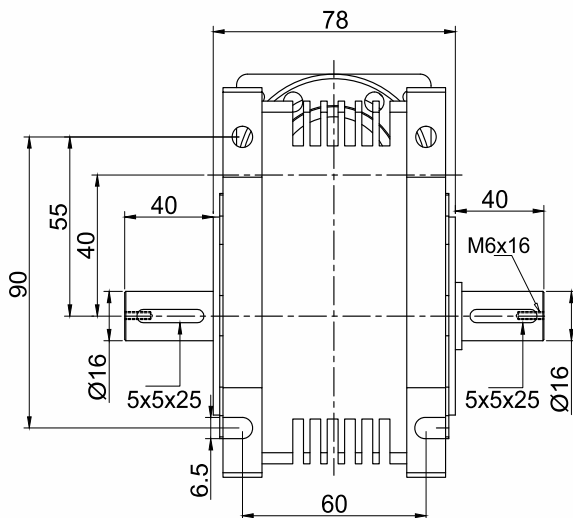
Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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**SPECIFICATION
SHEET**
Bholanath

STEPPER MOTOR
BH 60 SH 65 - 2804 HL-15
HIGH TORQUE HYBRID

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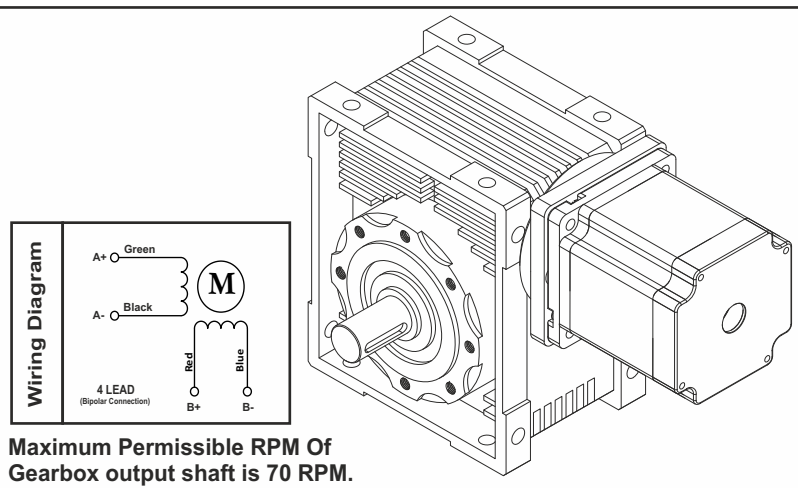
Modification Date 04.08.2017

AMENDMENT
O/P Shaft Ø19mm TO Ø16mm.

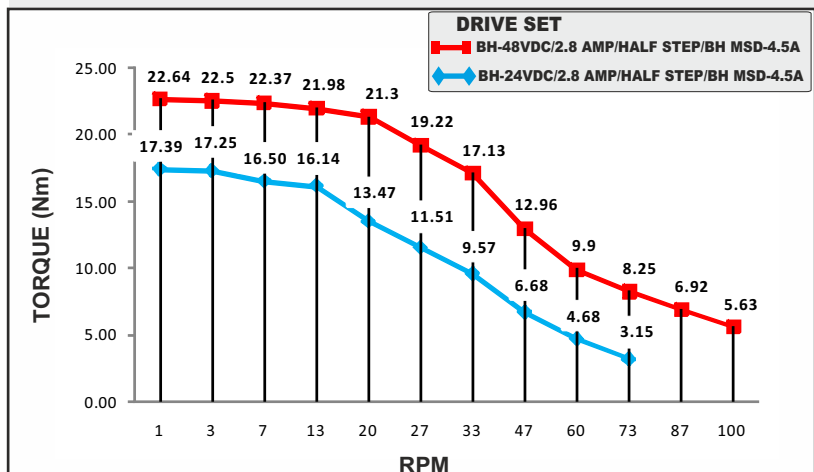
TECHNICAL DATA

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 4.0 Kg
Insulation Class - Class 155
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω
Resistance per phase ±10% - 1.2 / 1.21Ω
Inductance per phase ±20% - 4.25 / 4.2 mH
Normal current per phase - 2.8 Amp
Normal Power - 9.408 Watt
Rated Voltage - 3.36
Operating Voltage - 24 - 48 Vdc
Stock Temperature - 10°C To 40°C
Operation Temperature - 10°C To 40°C
Holding Torque for Motor - 2.1 Nm
Holding Torque With gear Box - 31.0 Nm (310Kgcm)
Admissible Radial Load <1657 N
Gear Box Ratio - 15:1
Backlash ≤ 0.8 Degree



Maximum Permissible RPM of
Gearbox output shaft is 70 RPM.



MOTOR MODEL - BH60SH65-2804HL-15

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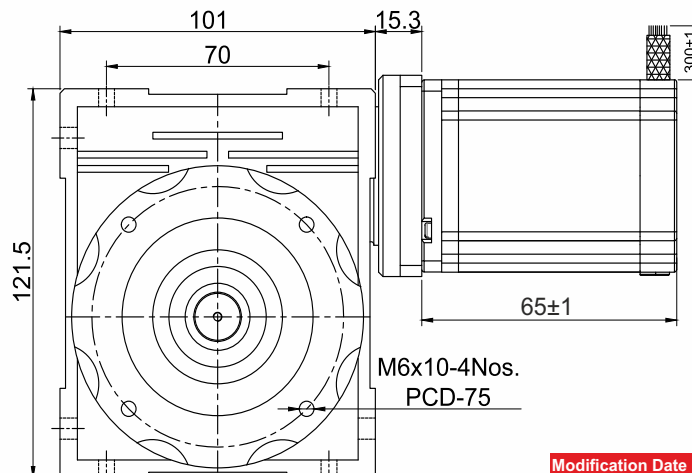
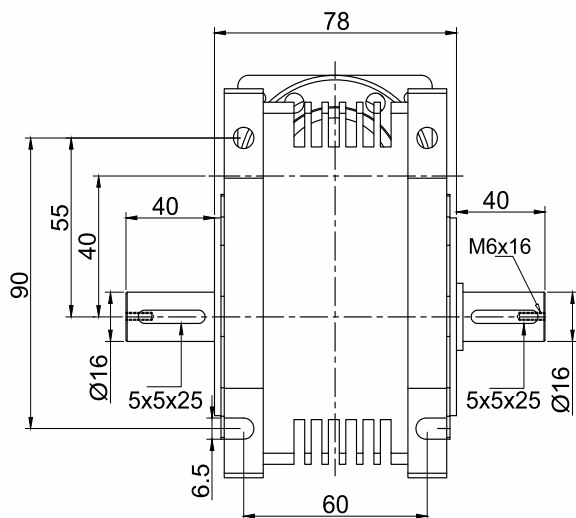
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**SPECIFICATION
SHEET**
Bholanath

STEPPER MOTOR
BH 60 SH 65 - 2804 HL-20
HIGH TORQUE HYBRID

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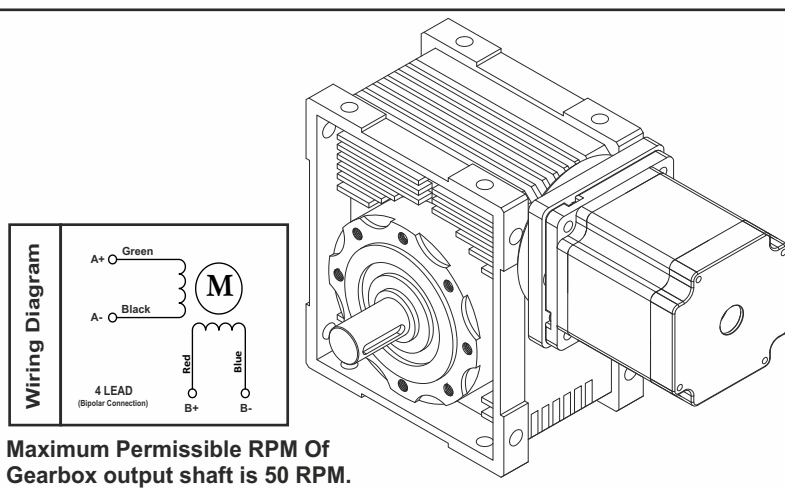
Modification Date 04.08.2017

AMENDMENT
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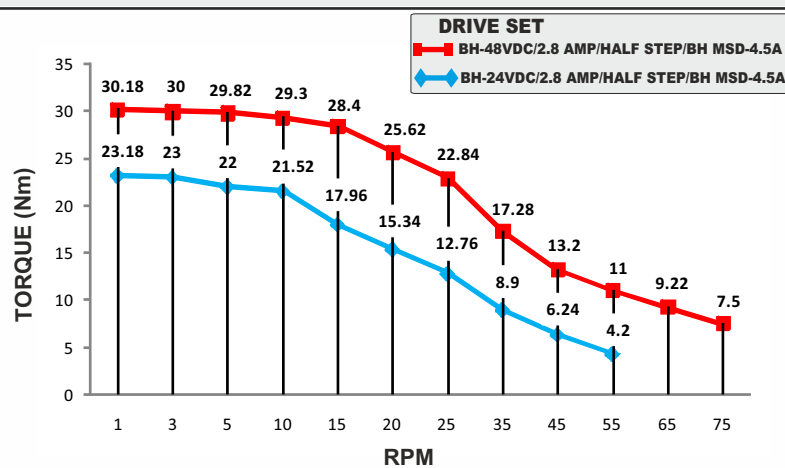
TECHNICAL DATA

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 4.0 Kg
Insulation Class - Class 155
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω
Resistance per phase ±10% - 1.2 / 1.21Ω
Inductance per phase ±20% - 4.25 / 4.2 mH
Normal current per phase - 2.8 Amp
Normal Power - 9.408 Watt
Rated Voltage - 3.36
Operating Voltage - 24 - 48 Vdc
Stock Temperature - 10°C To 40°C
Operation Temperature -10°C To 40°C
Holding Torque for Motor - 2.1 Nm
Holding Torque of gear Box - 42.0 Nm (420Kgcm)
Admissible Radial Load < 1824 N
Gear Box Ratio - 20:1
Backlash ≤ 0.8 Degree



Maximum Permissible RPM of
Gearbox output shaft is 50 RPM.



MOTOR MODEL - BH60SH65-2804HL-20

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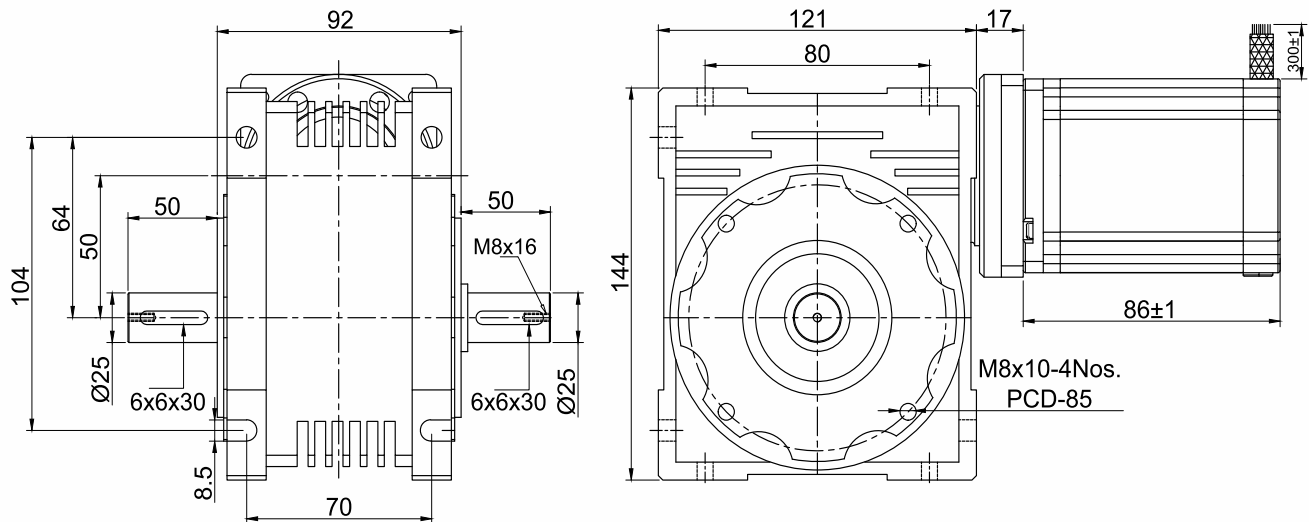
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH60 SH 86 - 2804HL
HIGH TORQUE HYBRID

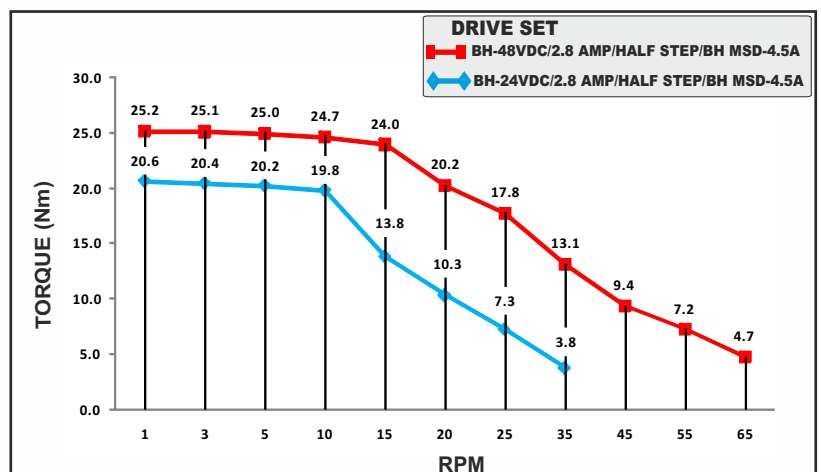
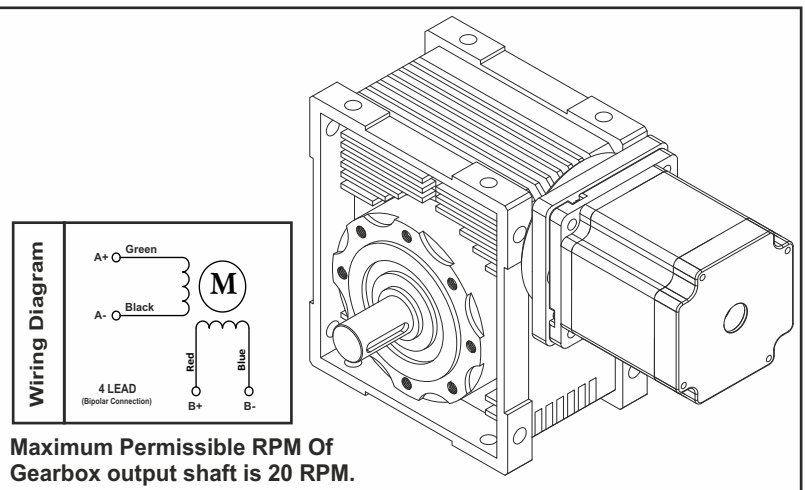
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TECHNICAL DATA

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 5.85 Kg
Insulation Class - Class 155
Protection Class - DIN40050 - Ip30
Resistance of Insulation - 100M Ω
Resistance per phase $\pm 10\%$ - 1.6 / 1.61 Ω
Inductance per phase $\pm 20\%$ - 6.5 / 6.6 mH
Normal current per phase - 2.8 Amp
Normal Power - 12.5 Watt
Rated Voltage - 4.48
Operating Voltage - 24 - 48 Vdc
Stock Temperature - -10°C To 40°C
Operation Temperature - -10°C To 40°C
Holding Torque for Motor - 3.1 Nm
Holding Torque With gear Box - 62.0 Nm (620Kgcm)
Admissible Radial Load < 2503 N
Gear Box Ratio - 20:1
Backlash ≤ 0.8 Degree



STEPPER MOTOR - BH60SH86-2804HL

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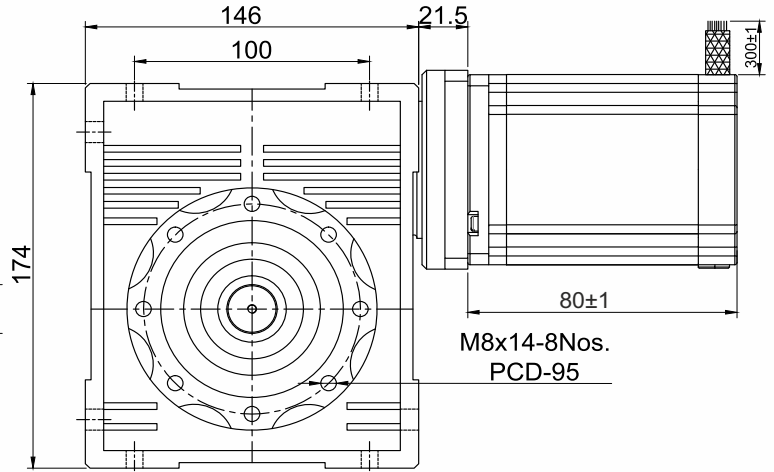
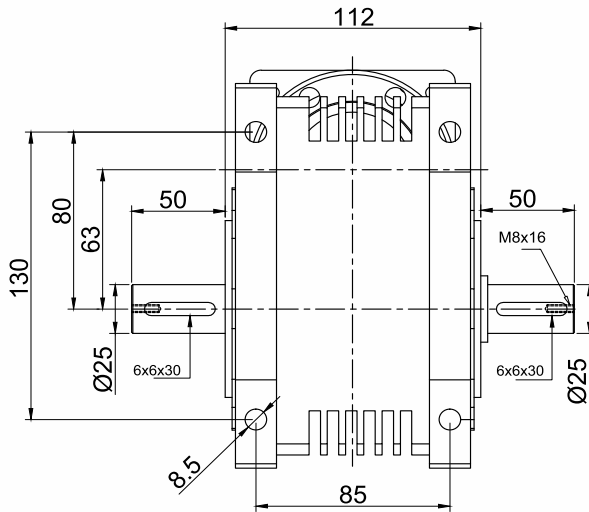
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Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

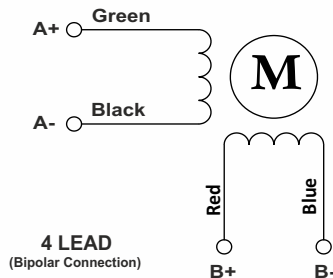
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SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 80 - 5504 HL-15
HIGH TORQUE HYBRID

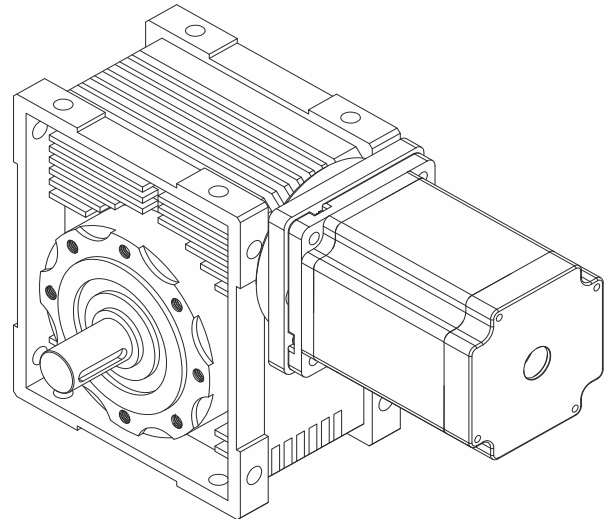


Wiring Diagram

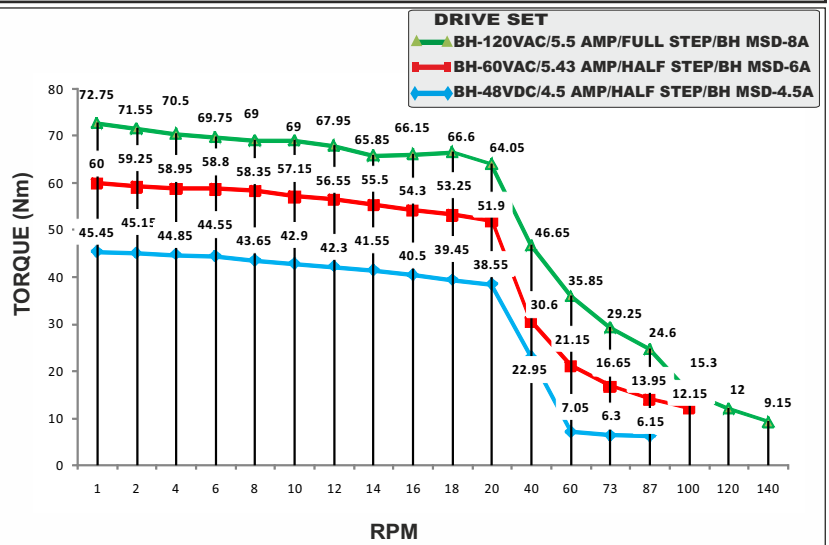


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 9.9 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.44 Ω
- Inductance per phase - 3.6 mH
- Normal current per phase - 5.5 Amp
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 4.6 Nm
- Holding Torque with gear Box - 69.0 Nm (690 Kgcm)
- Admissible Radial load- < 2973N
- Gear Box Ratio - 15:1
- Backlash - 0.8 Degree



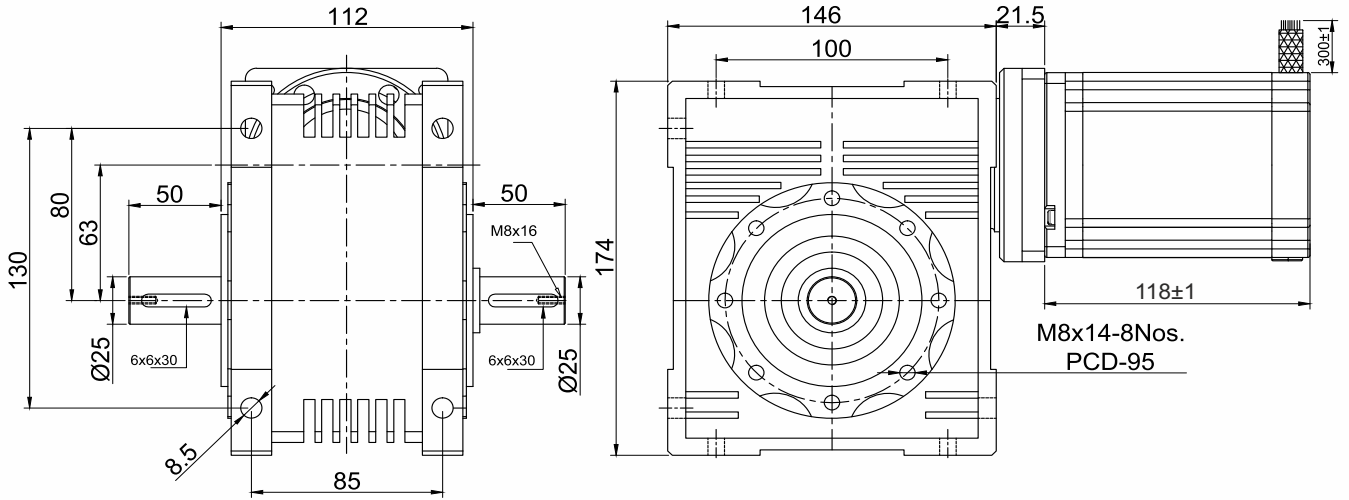
Max.RPM At Gear Box Shaft - 70 RPM



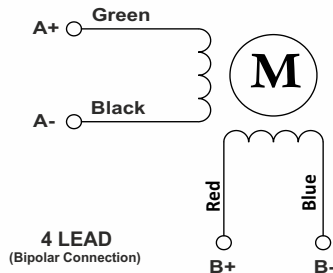
PLANETARY GEAR BOX STEPPER MOTOR - BH86SH80-5504HL-15

SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 118 - 6004 HL-7.5
HIGH TORQUE HYBRID

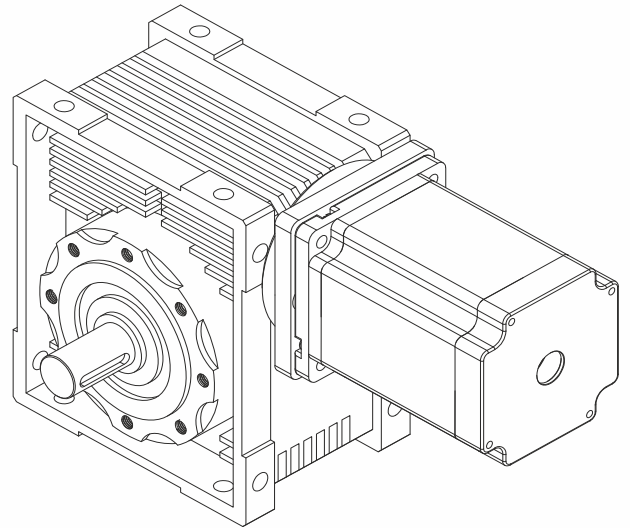


Wiring Diagram

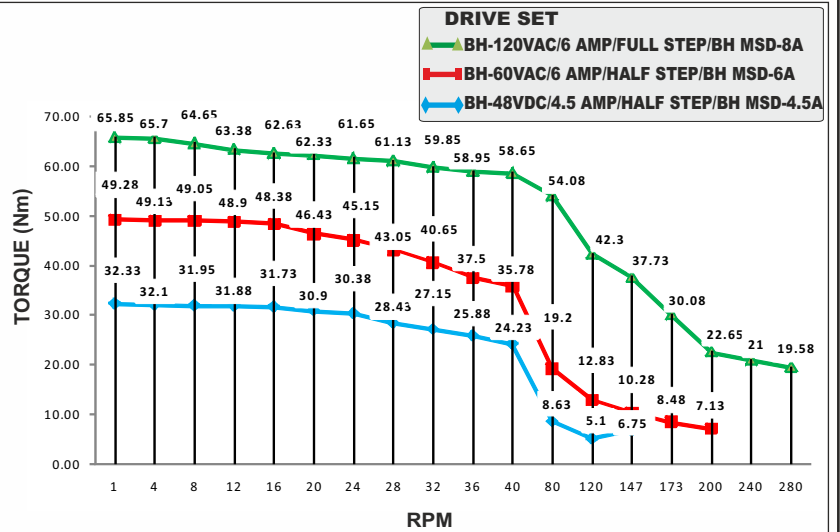


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc minute
Dimensions - Refer drawing
Weight with Gear box - 7.5 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.42 Ω
Inductance per phase - 4.25 mH
Normal current per phase - 6 Amp
Operating Voltage - 24 to 170 VDC
Operating Voltage - 34 to 120VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 8.7 Nm
Holding Torque with gear Box - 65.0 Nm (650 Kgcm)
Admissible Radial Load < 2359 N
Gear Box Ratio - 7.5:1
Backlash - 0.8 Degree



Max.RPM At Gear Box Shaft - 130 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004HL-7.5

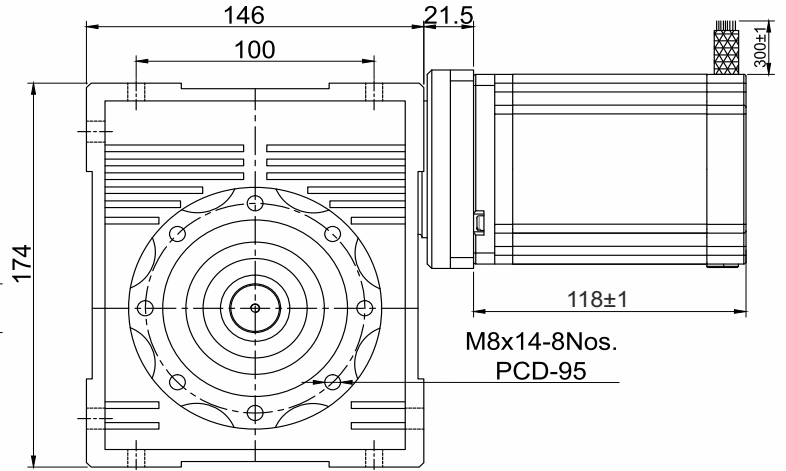
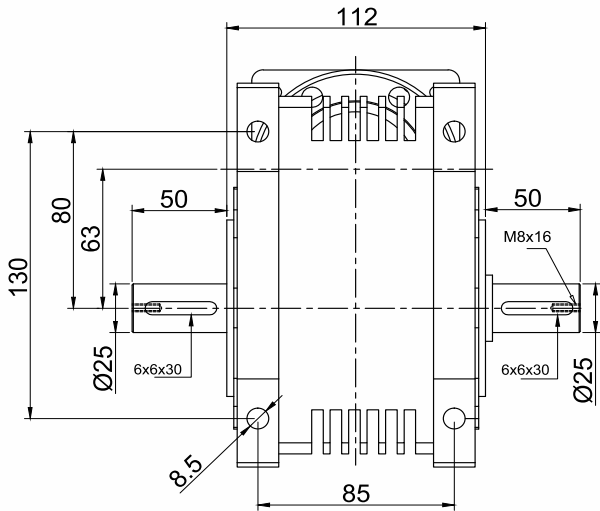
SPECIFICATION SHEET

Bholanath

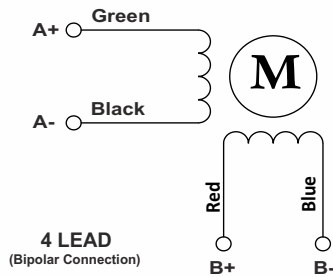
STEPPER MOTOR

BH86 SH 118 - 6004 HL-10

HIGH TORQUE HYBRID

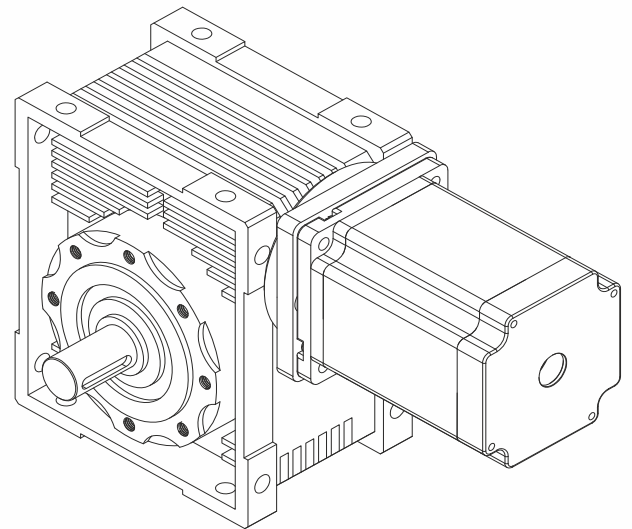


Wiring Diagram

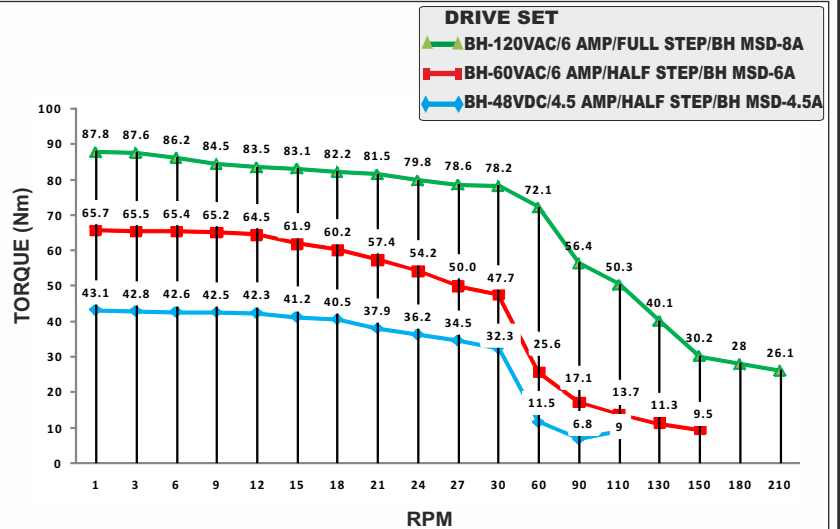


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc minute
Dimensions - Refer drawing
Weight with Gear box - 7.5 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.42 Ω
Inductance per phase - 4.25 mH
Normal current per phase - 6 Amp
Operating Voltage - 24 to 170 VDC
Operating Voltage - 34 to 120VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 8.7 Nm
Holding Torque with gear Box - 87.0 Nm (870 Kgcm)
Admissible Radial Load < 2597 N
Gear Box Ratio - 10:1
Backlash - 0.8 Degree



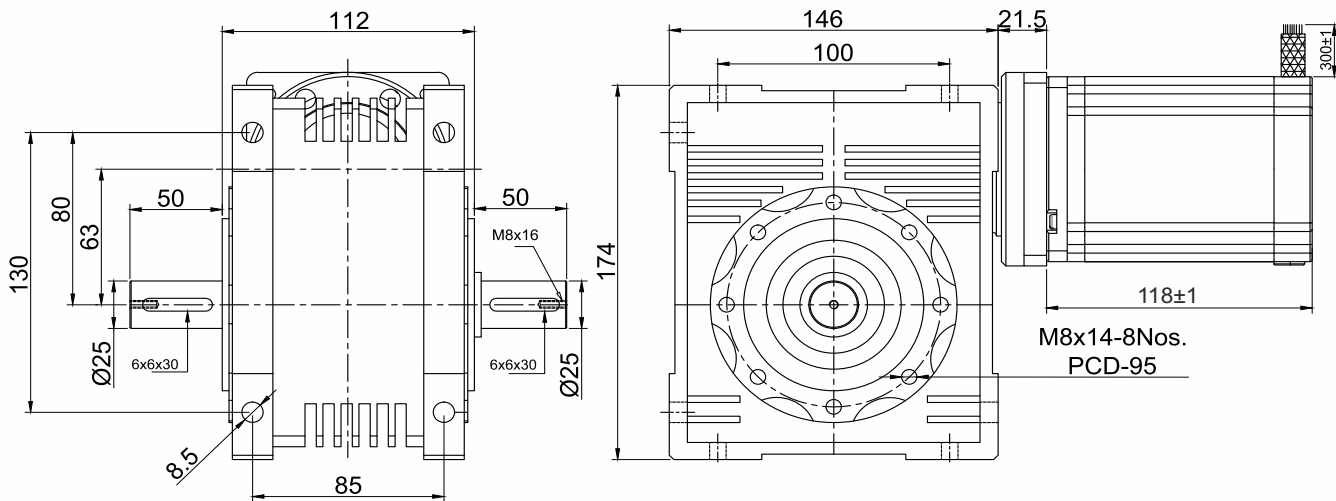
Max.RPM At Gear Box Shaft - 100 RPM



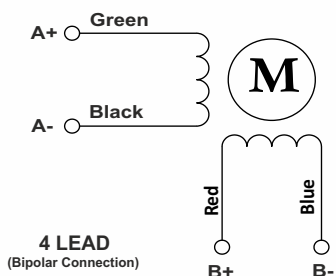
PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004HL-10

SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 118 - 6004 HL-15
HIGH TORQUE HYBRID

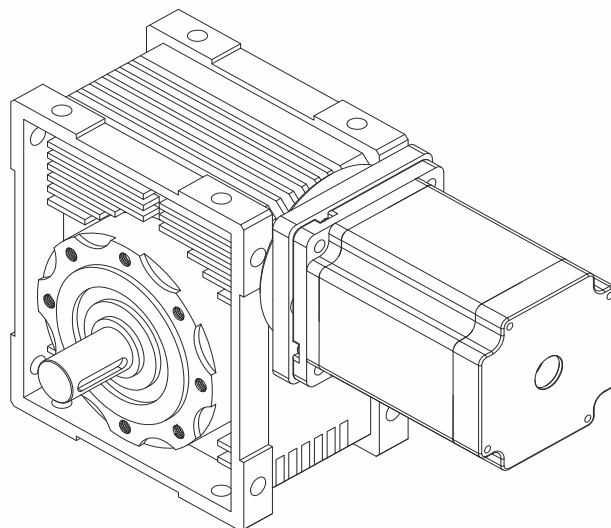


Wiring Diagram

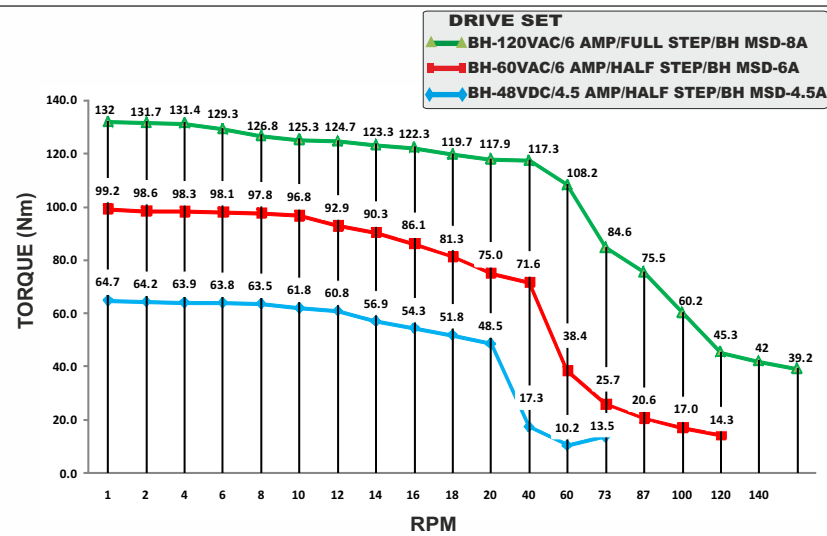


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 7.5 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.42 Ω
- Inductance per phase - 4.25 mH
- Normal current per phase - 6 Amp
- Operating Voltage - 24 to 170 VDC
- Operating Voltage - 34 to 120VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 8.7 Nm
- Holding Torque with gear Box - 130.0 Nm (1300 Kgcm)
- Admissible Radial Load < 2973 N
- Gear Box Ratio - 15:1
- Backlash - 0.8 Degree



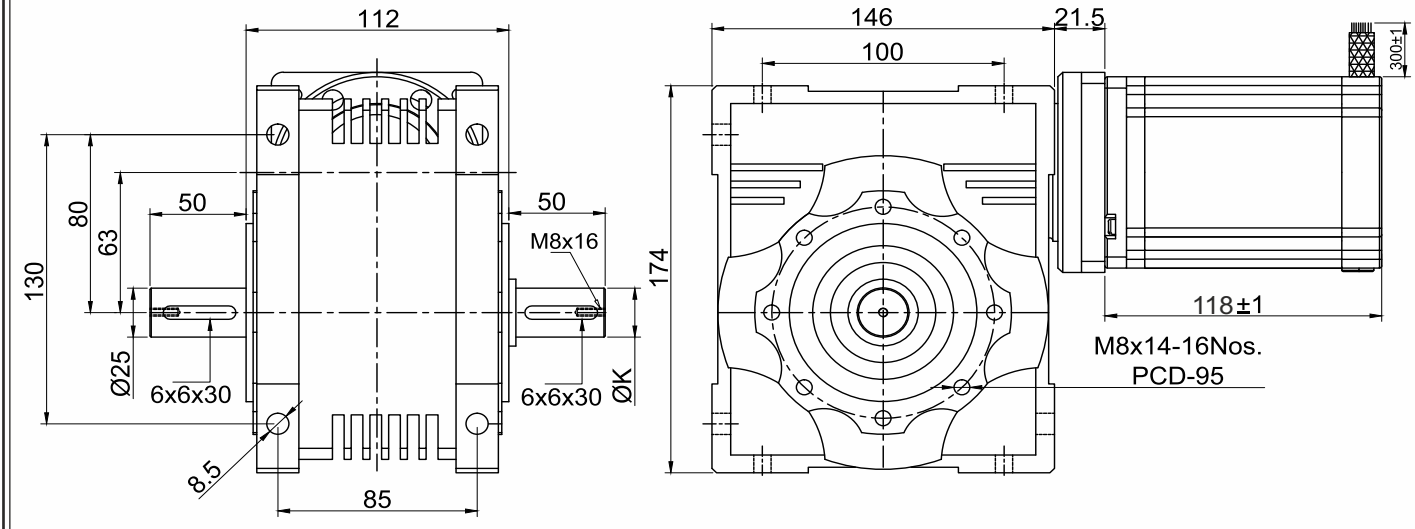
Max.RPM At Gear Box Shaft - 70 RPM



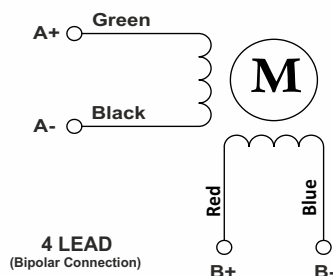
PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004HL-15

SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 118 - 6004 HL-20
HIGH TORQUE HYBRID

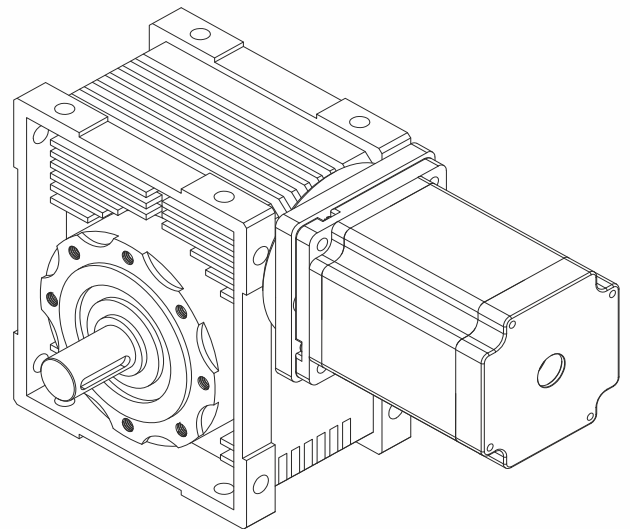


Wiring Diagram

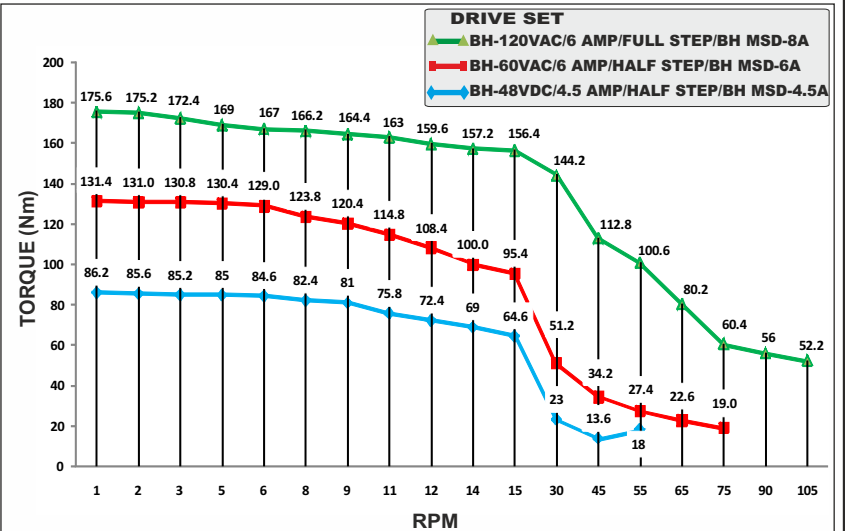


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 7.5 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.42 Ω
- Inductance per phase - 4.25 mH
- Normal current per phase - 6 Amp
- Operating Voltage - 24 to 170 VDC
- Operating Voltage - 34 to 120VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 8.7 Nm
- Holding Torque with gear Box - 174.0 Nm (1740 Kgcm)
- Admissible Radial Load < 3272 N
- Gear Box Ratio - 20:1
- Backlash - 0.8 Degree



Max.RPM At Gear Box Shaft - 50 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004HL-20

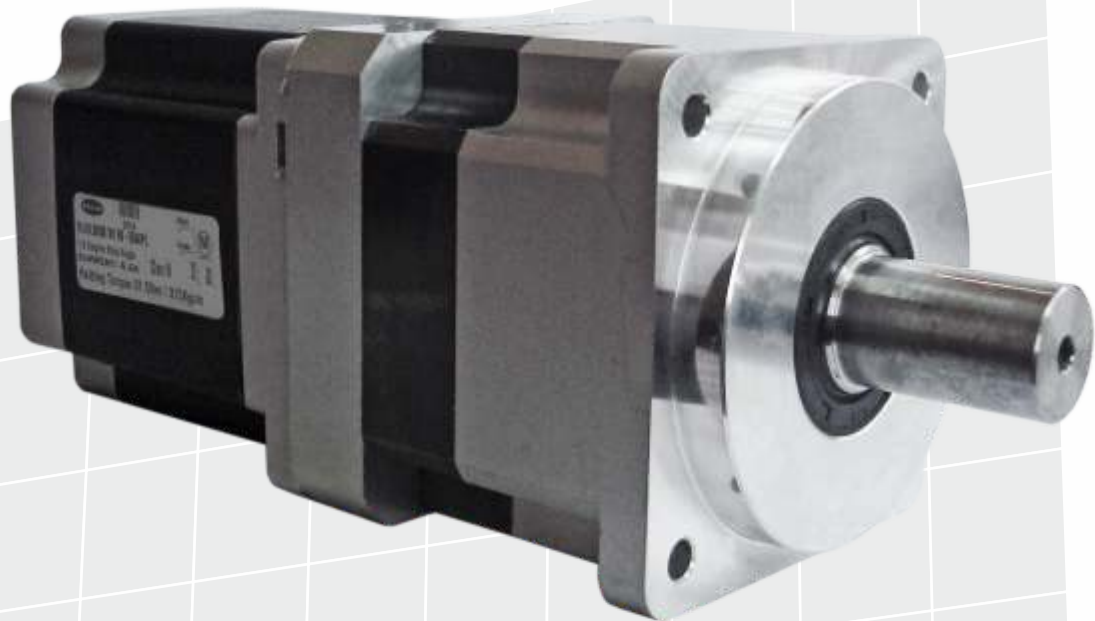


SIZE NEMA 17,23 & 34 (42,57 & 86MM)

2 - phase Stepping Motor

1.8° High Torque Hybrid Stepper Motor

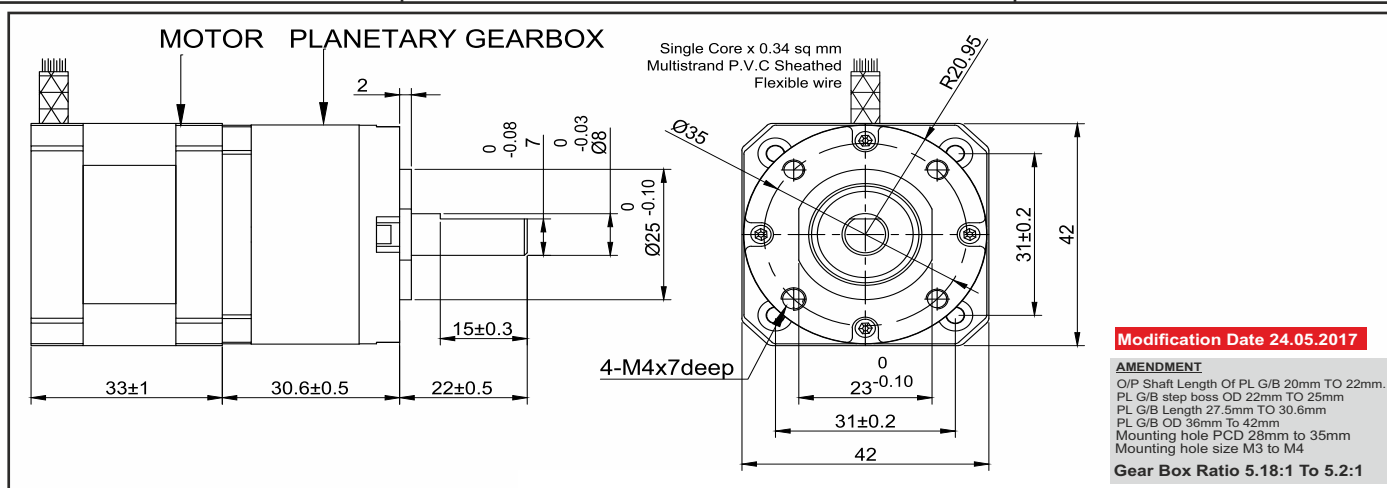
PLANETARY GEARBOX Stepper Motor



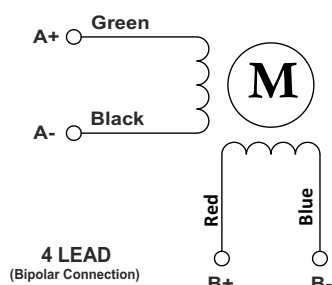
SPECIFICATION SHEET
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STEPPER MOTOR
BH42 SH 33 - 1334 PL-11 Kgcm
HIGH TORQUE HYBRID

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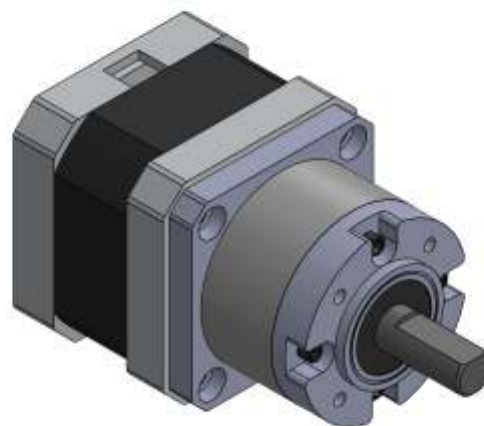


Wiring Diagram

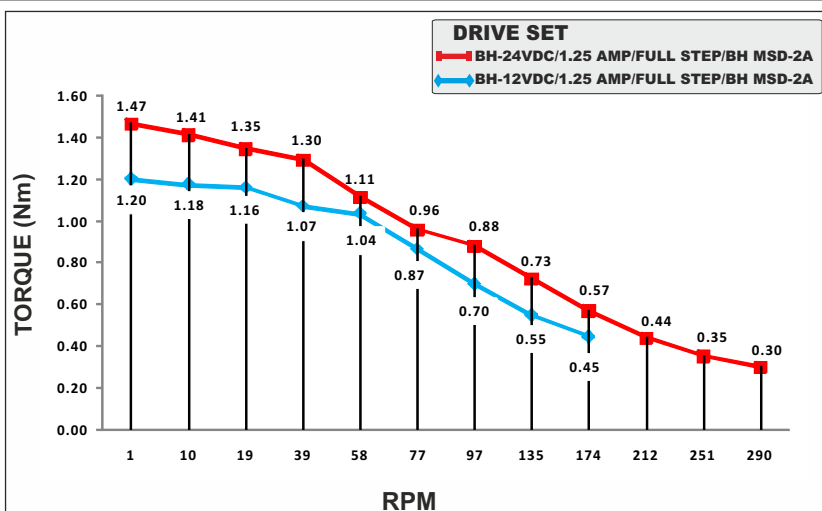


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy - ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 372 g
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 2.1 Ω
Inductance per phase - 1.6 mH
Normal current per phase - 1.3 Amp
Operating Voltage - 12 to 24 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 0.22 Nm (2.2 Kgcm)
Holding Torque with gear Box - 1.1 Nm (11 Kgcm)
Max Radial Load (12mm from flange) - ≤ 80N
Max Shaft Axial Load - ≤ 30N
Radial Play of Shaft (Near to flange) - ≤ 0.06mm
Axial Play of Shaft - ≤ 0.3mm
Gear Box Ratio - 5.2:1
Backlash - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH42SH33-1334PL-11 Kgcm

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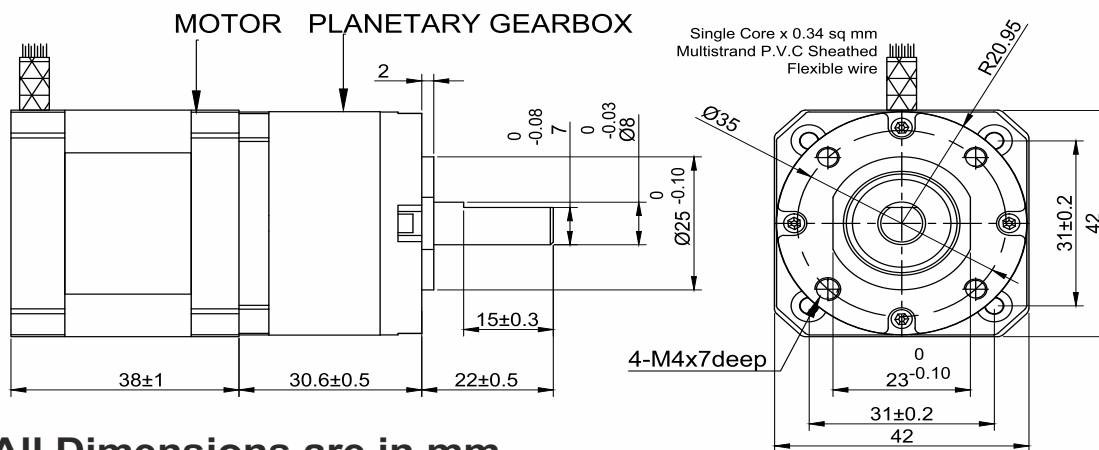
Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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

SPECIFICATION SHEET
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STEPPER MOTOR
BH42 SH 38 - 1684 PL-18Kgcm
HIGH TORQUE HYBRID

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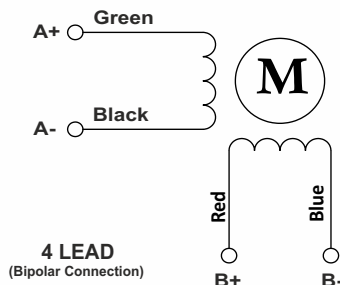


Modification Date 24.05.2017

AMENDMENT
O/P Shaft Length Of PL G/B 20mm TO 22mm
PL G/B step boss OD 22mm TO 23mm
PL G/B Length 27.5mm TO 30.6mm
PL G/B OD 36mm To 42mm
Mounting hole PCD 28mm to 35mm
Mounting hole size M3 to M4
Gear Box Ratio 5.18:1 To 5.2:1

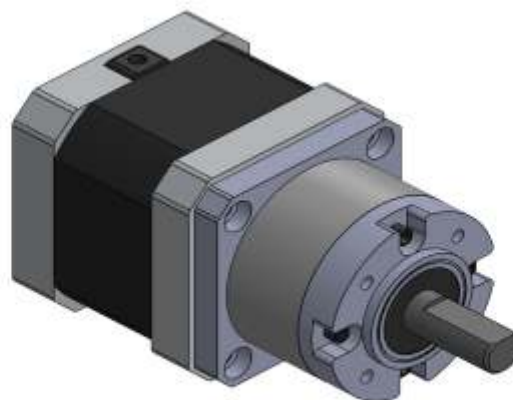
All Dimensions are in mm.

Wiring Diagram

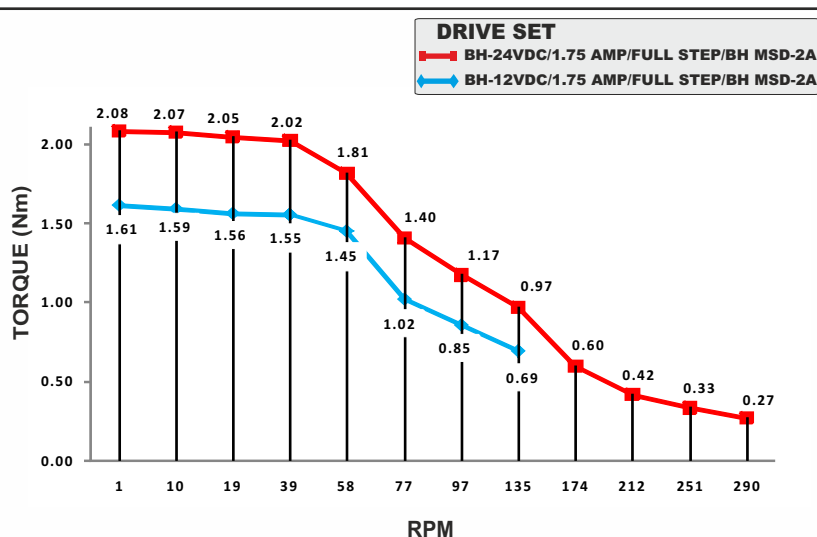


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 377 g
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 1.7 Ω
Inductance per phase - 1.8 mH
Normal current per phase - 1.68 Amp
Operating Voltage - 12 to 24 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 0.36 Nm (3.6Kgcm)
Holding Torque with gear Box - 1.8 Nm (18 Kgcm)
Max Radial Load (12mm from flange) - ≤ 80 N
Max Shaft Axial Load - ≤ 30 N
Radial Play of Shaft (Near to flange) - ≤ 0.06 mm
Axial Play of Shaft - ≤ 0.3 mm
Gear Box Ratio - 5.2:1
Backlash - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH42SH38-1684PL-18Kgcm

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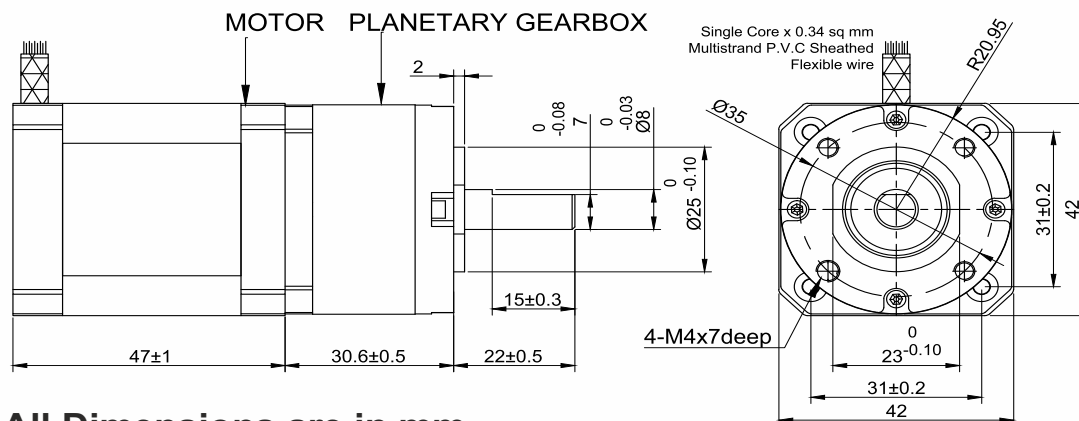
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SPECIFICATION SHEET
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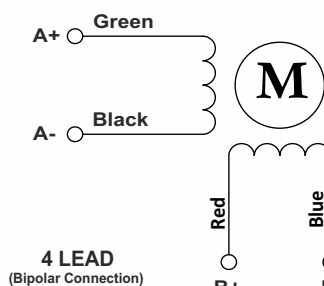
STEPPER MOTOR
BH42 SH 47 - 1704 PL-22Kgcm
HIGH TORQUE HYBRID

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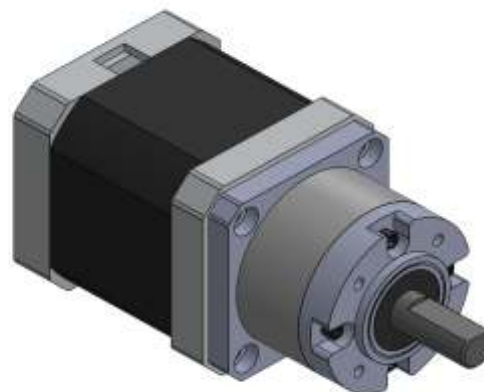
All Dimensions are in mm.

Wiring Diagram

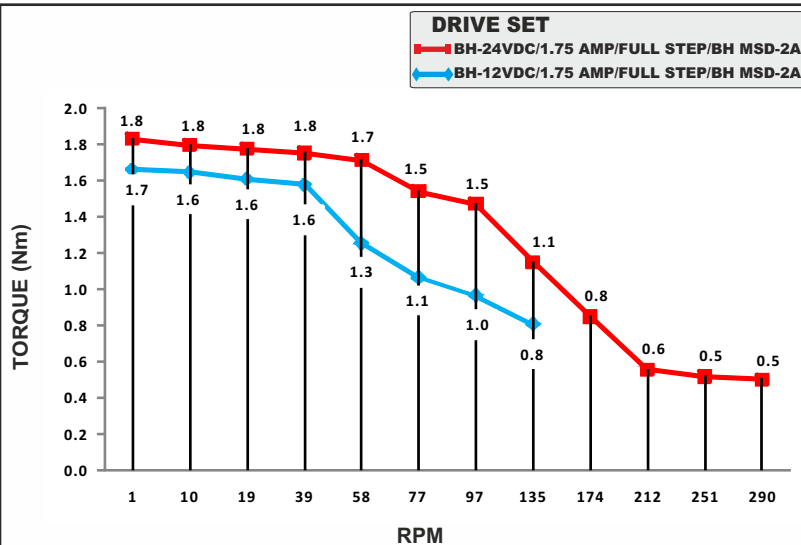


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 715 g
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 1.7 Ω
Inductance per phase - 2.5 mH
Normal current per phase - 1.68 Amp
Operating Voltage - 12 to 24 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 0.44 Nm (4.4 Kgcm)
Holding Torque with gear Box - 2.2 Nm (22 Kgcm)
Max Radial Load (12mm from flange) - ≤ 80 N
Max Shaft Axial Load - ≤ 30 N
Radial Play of Shaft (Near to flange) - ≤ 0.06 mm
Axial Play of Shaft - ≤ 0.3 mm
Gear Box Ratio - 5.2:1
Backlash - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH42SH47-1704PL-22Kgcm

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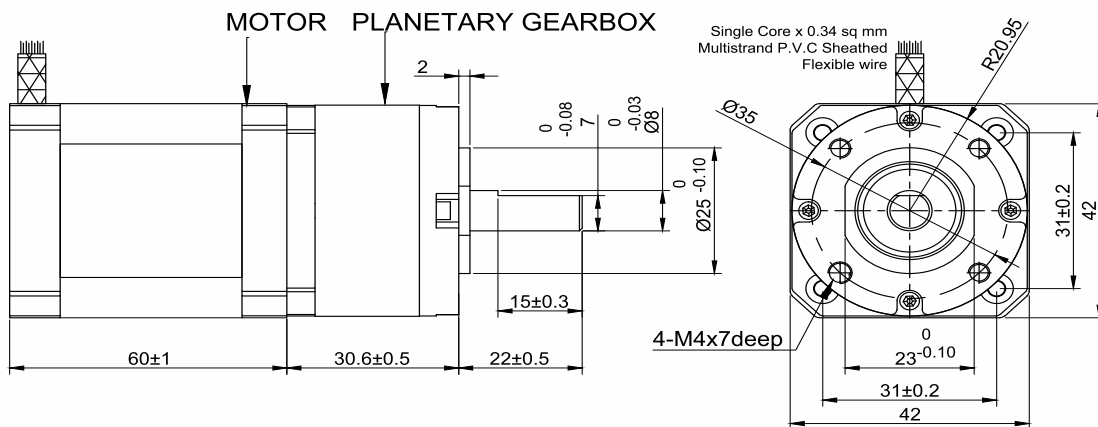
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
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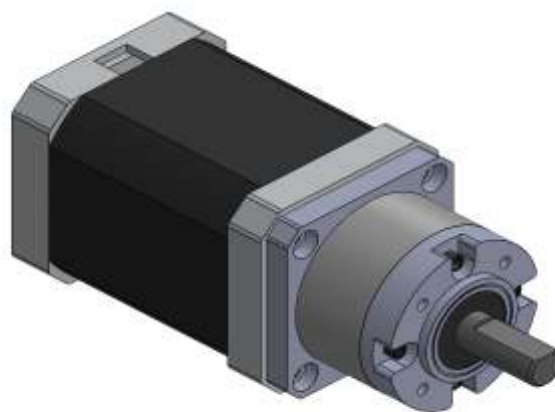
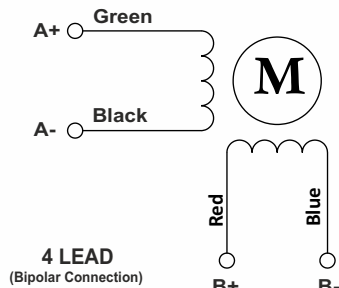
STEPPER MOTOR
BH42 SH 60 - 0854 PL-46Kgcm
HIGH TORQUE HYBRID

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All Dimensions are in mm.

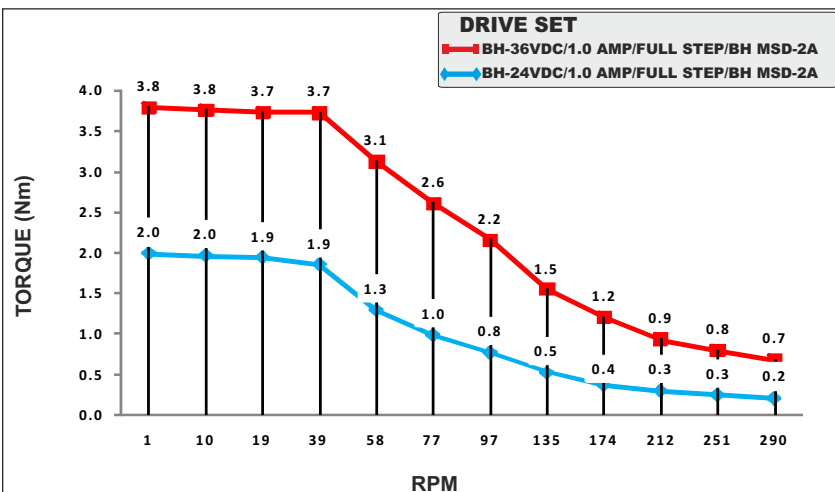
Wiring Diagram



Max.RPM At Gear Box Shaft - 200 RPM

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 835 g
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 12 Ω
Inductance per phase - 18 mH
Normal current per phase - 0.85 Amp
Operating Voltage - 24 to 50 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 0.9 Nm (9.0 Kgcm)
Holding Torque with gear Box - 4.6 Nm (46 Kgcm)
Max Radial Load (12mm from flange) - ≤ 80N
Max Shaft Axial Load - ≤ 30N
Radial Play of Shaft (Near to flange) - ≤ 0.06mm
Axial Play of Shaft - ≤ 0.3mm
Gear Box Ratio - 5.2:1
Backlash - 1.5 degree



PLANETARY GEAR BOX STEPPER MOTOR - BH42SH60-0854PL-46Kgcm

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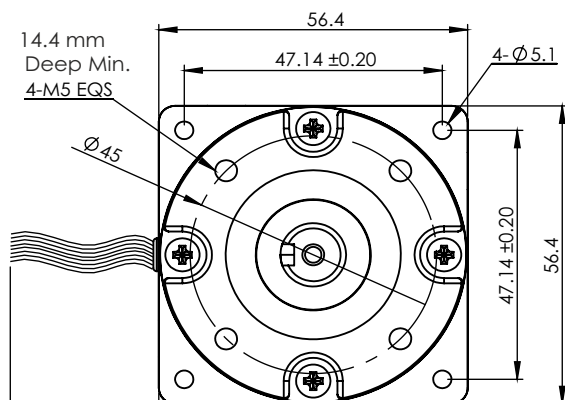
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

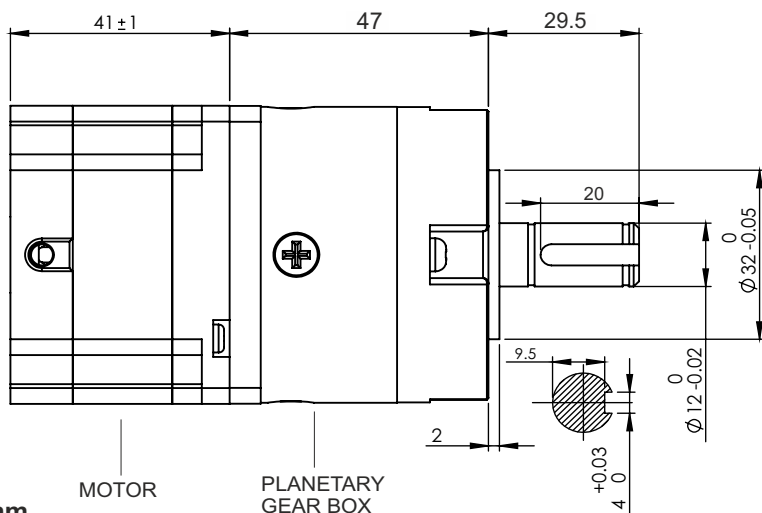
SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH57 SH 41 - 2804 PL
HIGH TORQUE HYBRID



Single Core x 0.34 Sq.mm
Multistrand P.V.C.Sheathed
flexible wire.

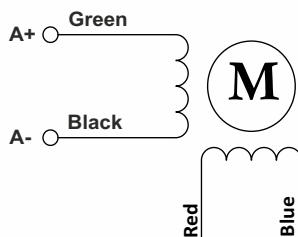
All Dimensions are in mm.



MOTOR

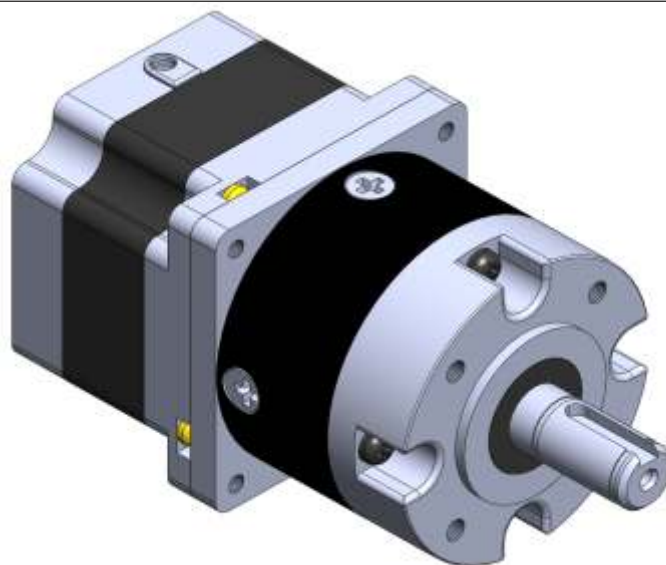
PLANETARY
GEAR BOX

Wiring Diagram

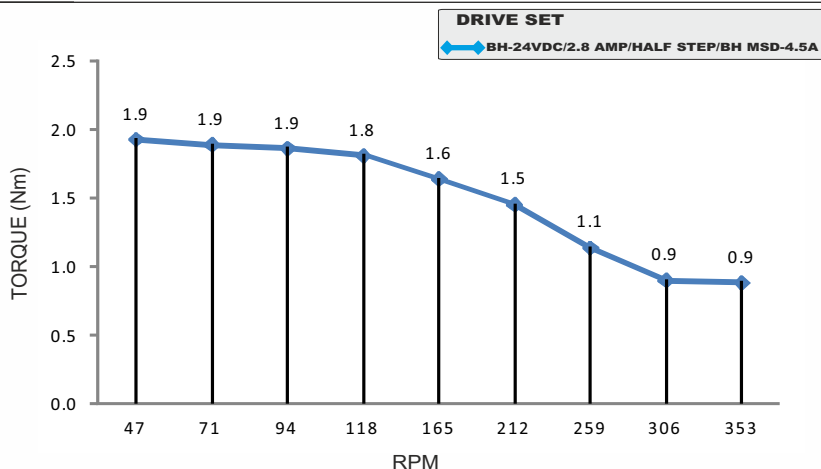


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 931 g
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.95 Ω
Inductance per phase - 1.8 mH
Normal current per phase - 2.8 Amp
Operating Voltage - 12 to 24 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 5.5 Nm
Holding Torque with gear Box - 2.1 Nm (21 Kgcm)
Max. Radial Load(12mm from flange) ≤ 250N
Max Shaft axial load ≤ 100N
Radial Play Of Shaft(near to flange) ≤ 0.08mm
Axial Play Of shaft ≤ 0.3mm
Gear Box Ratio - 4.25:1
Backlash at no load - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH57SH41-2804PL

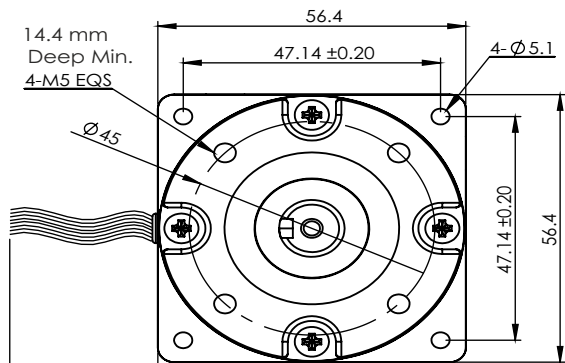


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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

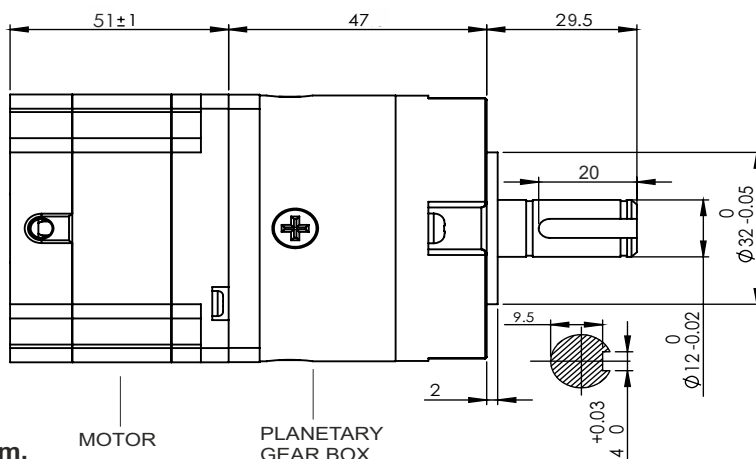
SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH57 SH 51 - 2804 PL
HIGH TORQUE HYBRID



Single Core x 0.34 Sq.mm
Multistrand P.V.C.Sheathed
flexible wire.

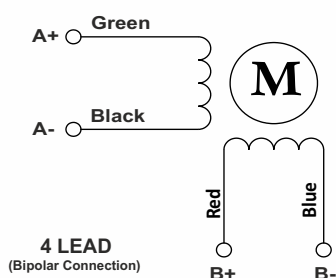
All Dimensions are in mm.



MOTOR

PLANETARY GEAR BOX

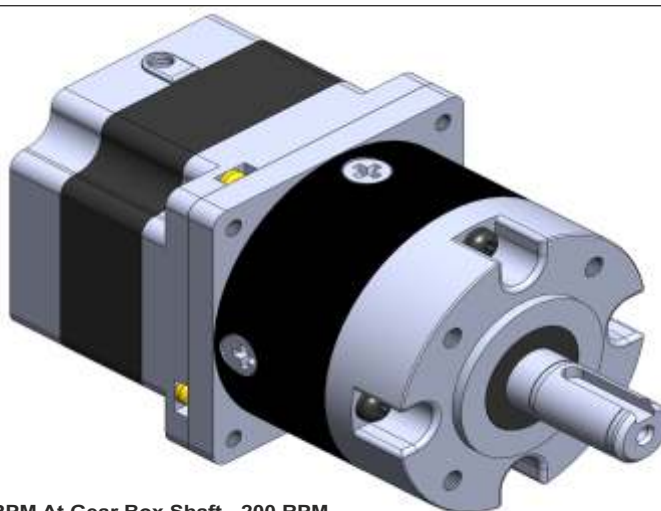
Wiring Diagram



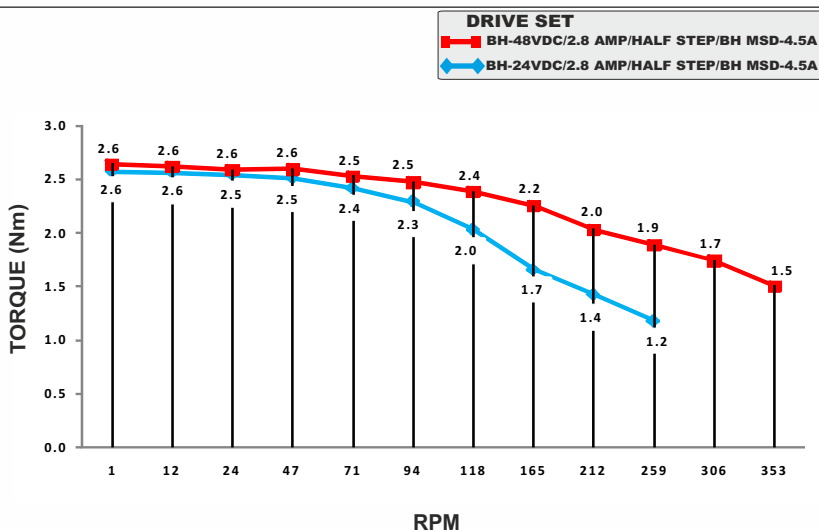
4 LEAD
(Bipolar Connection)

CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc Minute
- Dimensions - Refer drawing
- Weight with Gear box - 1.13 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.88 Ω
- Inductance per phase - 2.2 mH
- Normal current per phase - 2.8 Amp
- Operating Voltage - 24 to 48 VDC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 1.01 Nm
- Holding Torque with gear Box - 4.0 Nm (40 Kgcm)
- Max. Radial Load(12mm from flange) ≤ 250N
- Max Shaft axial load ≤ 100N
- Radial Play Of Shaft(near to flange) ≤ 0.08mm
- Axial Play Of shaft ≤ 0.3mm
- Gear Box Ratio - 4.25:1
- Backlash at no load - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH57SH51-2804PL



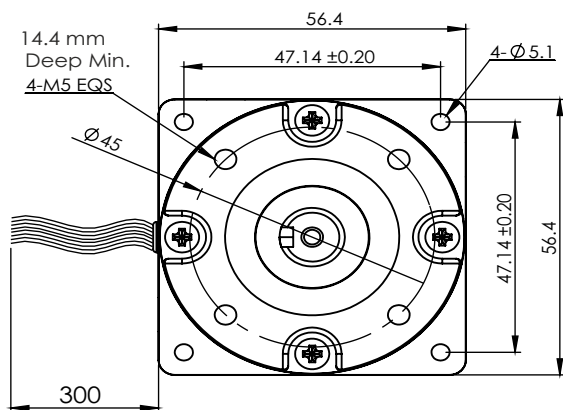
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

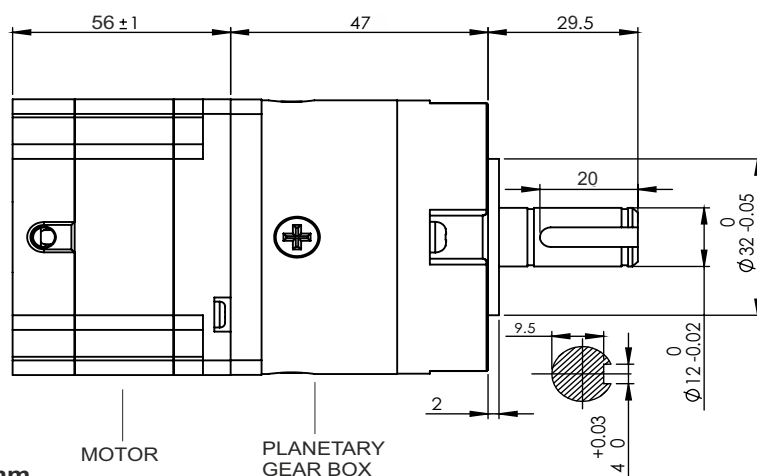
STEPPER MOTOR
BH57 SH 56 - 2004 PL
HIGH TORQUE HYBRID

Bholanath™
COMMITTED TO PRECISION



Single Core x 0.34 Sq.mm
Multistrand P.V.C.Sheathed
flexible wire.

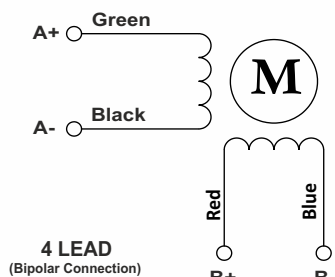
All Dimensions are in mm.



MOTOR

PLANETARY
GEAR BOX

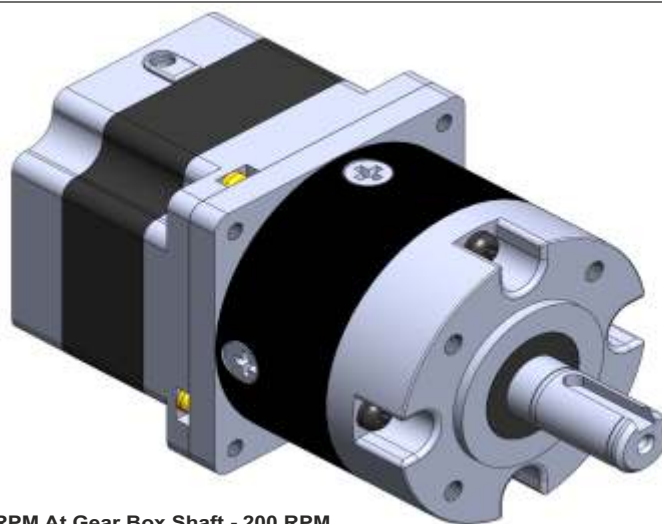
Wiring Diagram



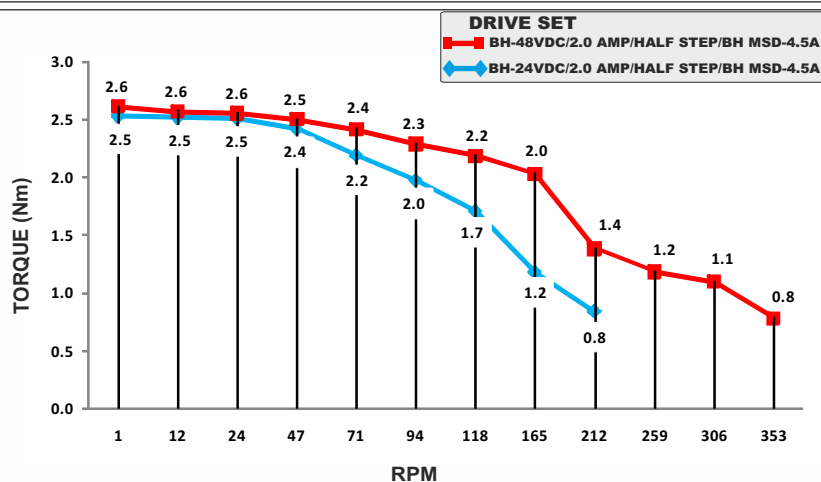
4 LEAD
(Bipolar Connection)

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 1.5 kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 1.8 Ω
Inductance per phase - 4.1 mH
Normal current per phase - 2 Amp
Operating Voltage - 24 to 48 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 1.26 Nm
Holding Torque with gear Box - 5.3 Nm (53 Kgcm)
Max. Radial Load(12mm from flange) ≤ 250N
Max Shaft axial load ≤ 100N
Radial Play Of Shaft(near to flange) ≤ 0.08mm
Axial Play Of shaft ≤ 0.3mm
Gear Box Ratio - 4.25:1
Backlash at no load - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH57SH56-2004PL

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BHOLANATH COOL STEPPERS™

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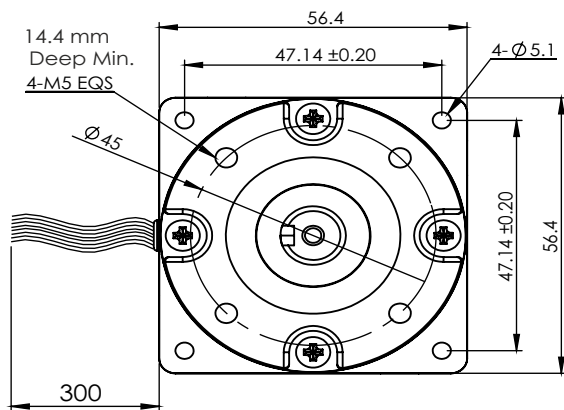
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SPECIFICATION SHEET
Bholanath

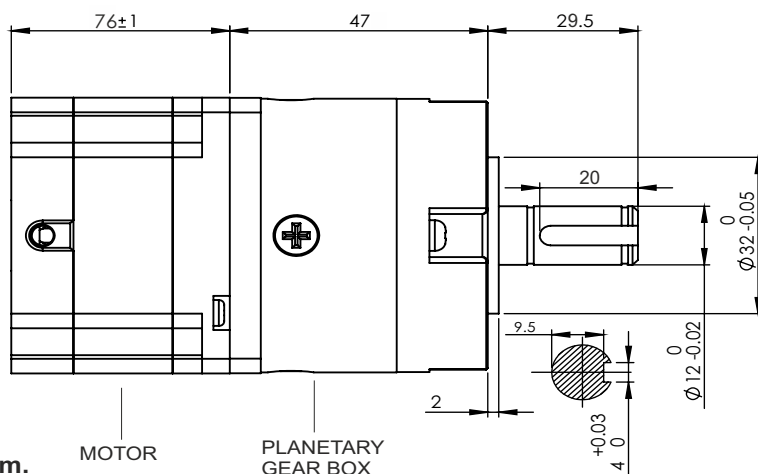
STEPPER MOTOR
BH57 SH 76 - 2804 PL
HIGH TORQUE HYBRID

Bholanath™
COMMITTED TO PRECISION



Single Core x 0.34 Sq.mm
Multistrand P.V.C.Sheathed
flexible wire.

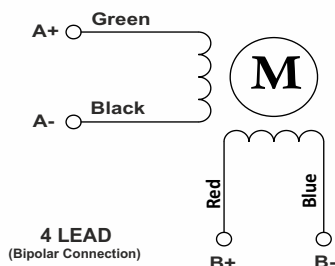
All Dimensions are in mm.



MOTOR

PLANETARY
GEAR BOX

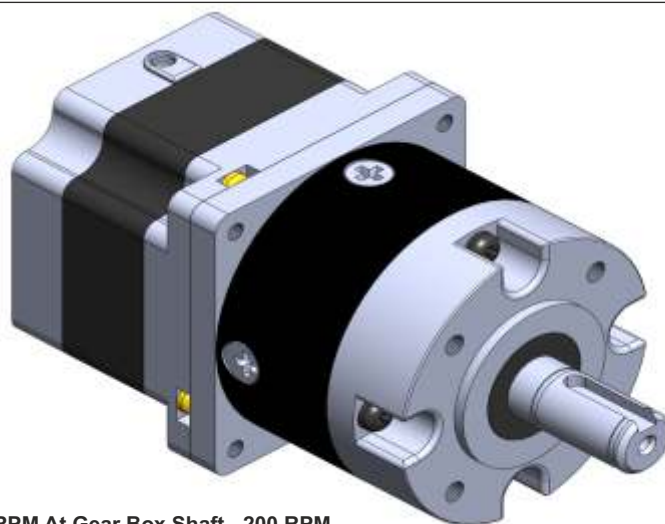
Wiring Diagram



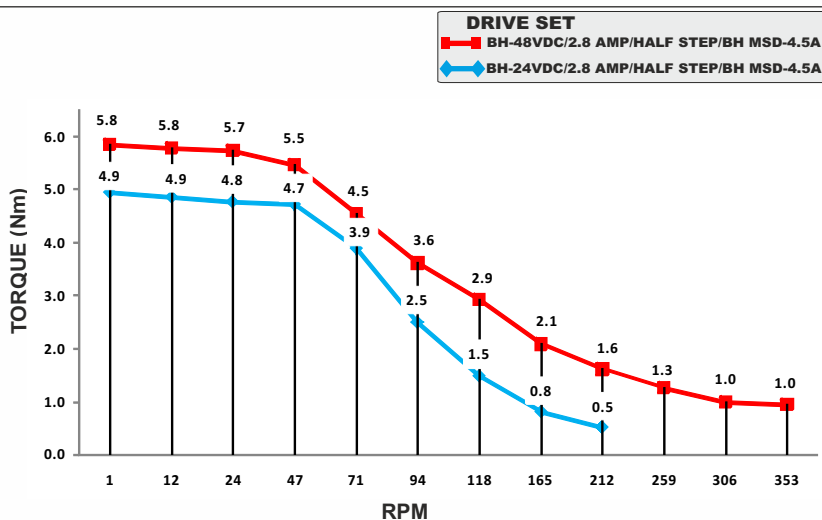
4 LEAD
(Bipolar Connection)

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc Minute
Dimensions - Refer drawing
Weight with Gear box - 1.553 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 1.2 Ω
Inductance per phase - 4.5 mH
Normal current per phase - 2.8 Amp
Operating Voltage - 24 to 48 VDC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 1.89 Nm
Holding Torque with gear Box - 7.2 Nm (72 Kgcm)
Max. Radial Load(12mm from flange) ≤ 250N
Max Shaft axial load ≤ 100N
Radial Play Of Shaft(near to flange) ≤ 0.08mm
Axial Play Of shaft ≤ 0.3mm
Gear Box Ratio - 4.25:1
Backlash at no load - 1.5 degree



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH57SH76-2804PL

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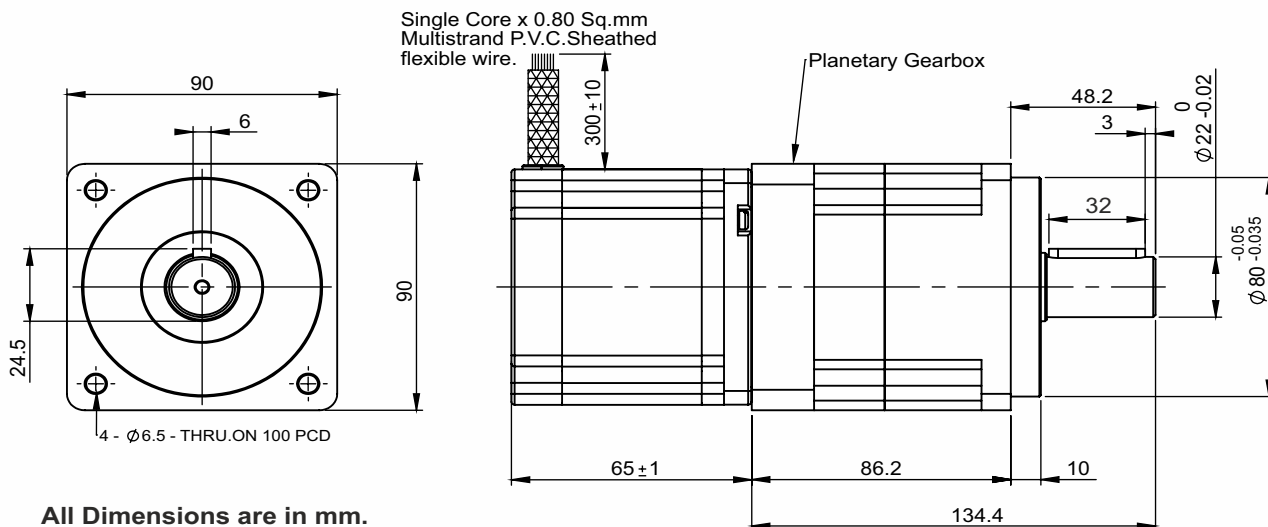
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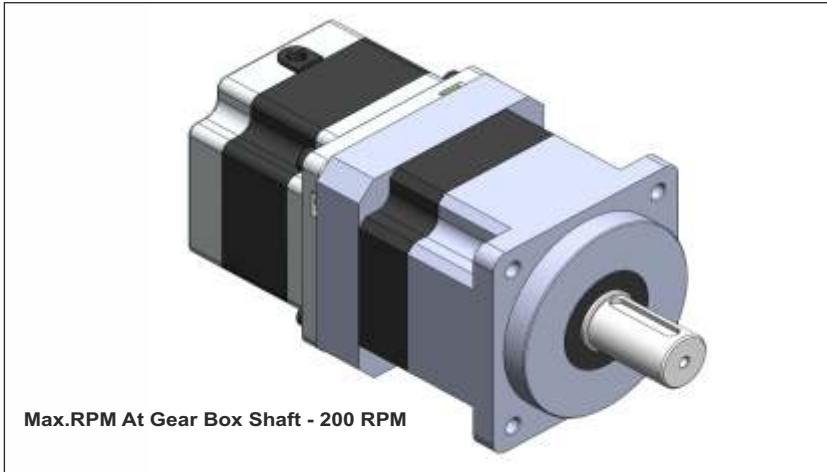
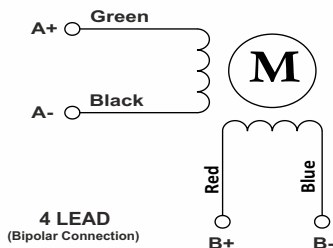
Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 65 - 6004 PL
HIGH TORQUE HYBRID

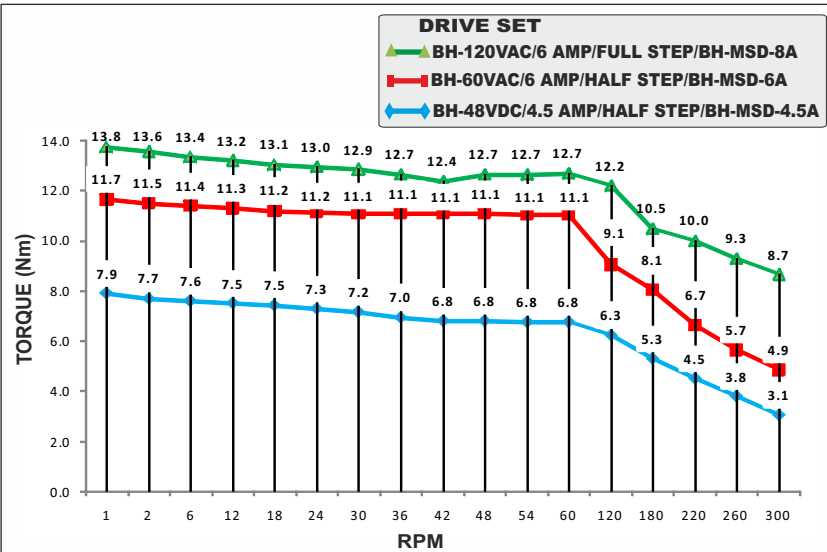


Wiring Diagram



CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 4.4 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.31 Ω
- Inductance per phase - 1.35 mH
- Normal current per phase - 6 Amp
- Rated Voltage - 1.86
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 3.4 Nm
- Holding Torque with gear Box - 15.0 Nm (150 Kgcm)
- Max Radial load(12mm from flange) - ≤ 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 5:1
- Backlash Arcmin - Precision 10



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH65-6004PL

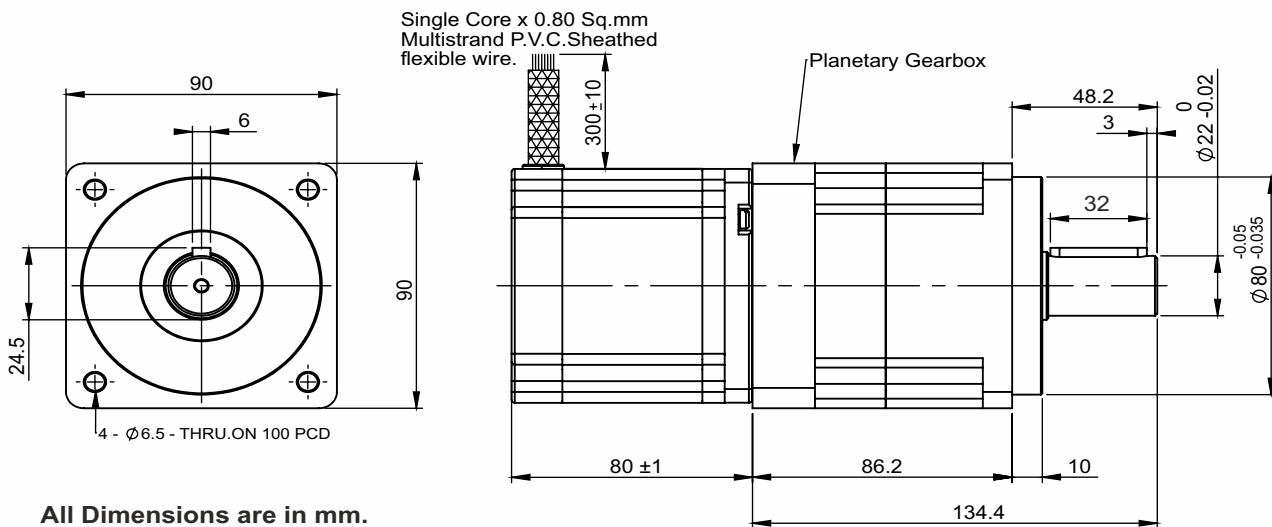


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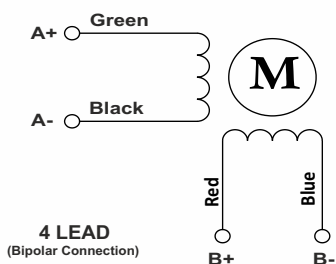
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Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 80 - 5504 PL
HIGH TORQUE HYBRID

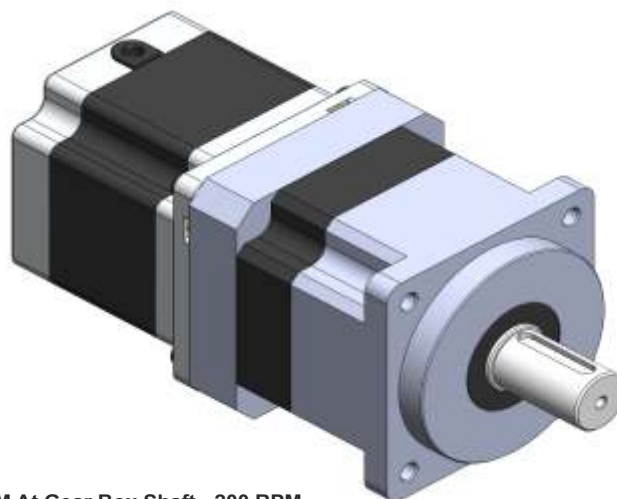


Wiring Diagram

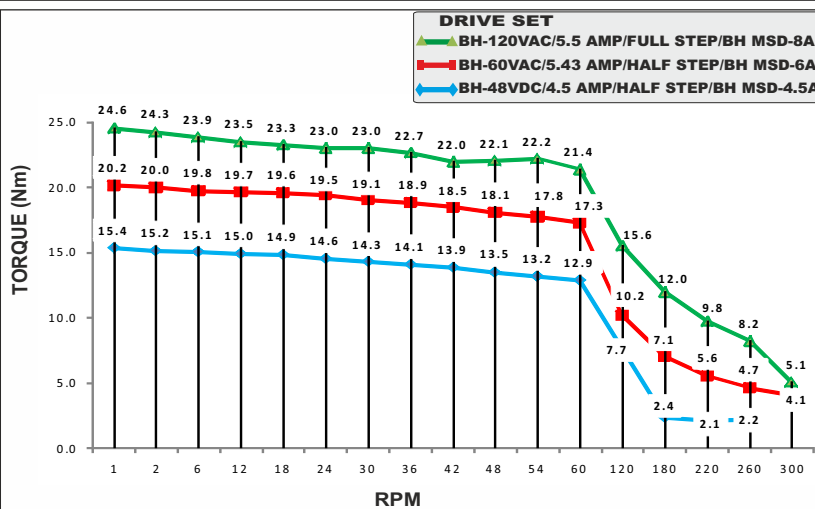


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy- ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 5.2 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.44 Ω
- Inductance per phase - 3.6 mH
- Normal current per phase - 5.5 Amp
- Rated Voltage - 2.42
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 4.6 Nm
- Holding Torque with gear Box - 20.0 Nm (200 Kgcm)
- Max Radial load(12mm from flange) - ≤ 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 5:1
- Backlash Arcmin - Precision 10



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH80-5504PL

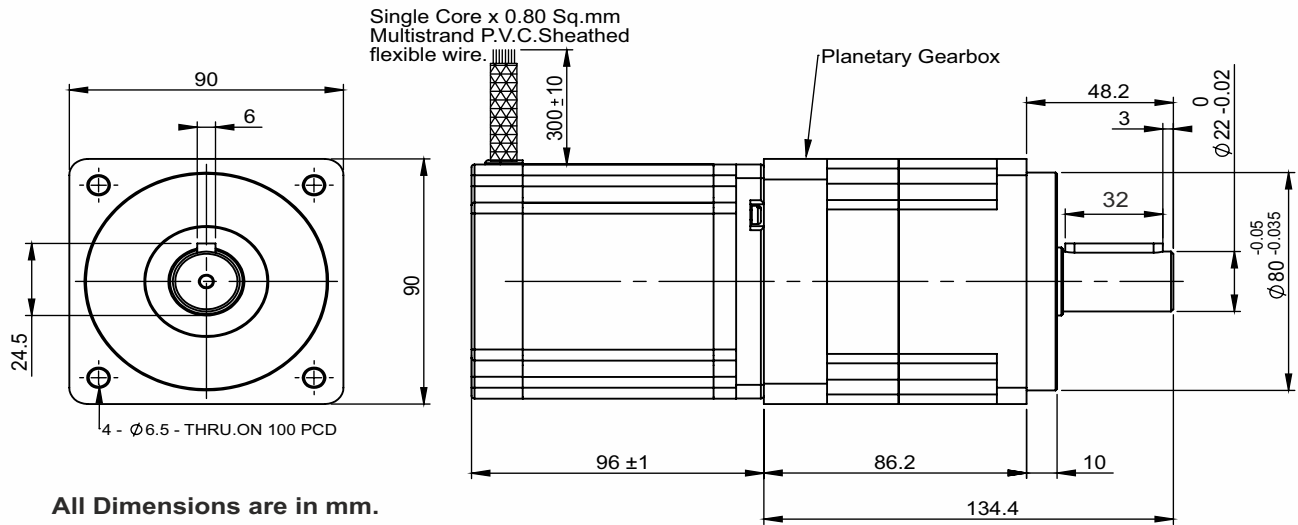


Bholanath Precision Engineering Pvt.Ltd.

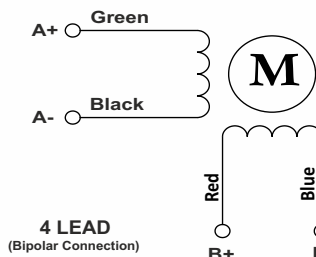
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 96 - 5504 PL
HIGH TORQUE HYBRID

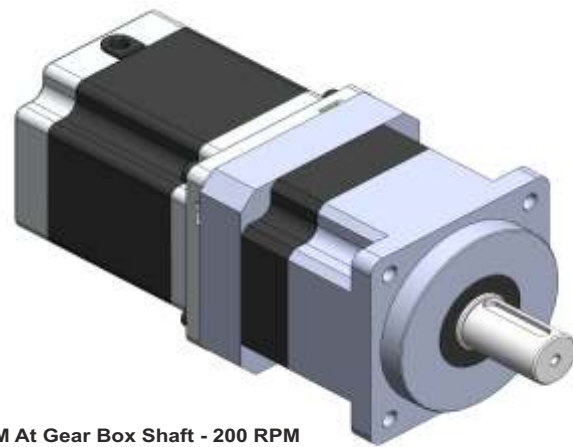


Wiring Diagram

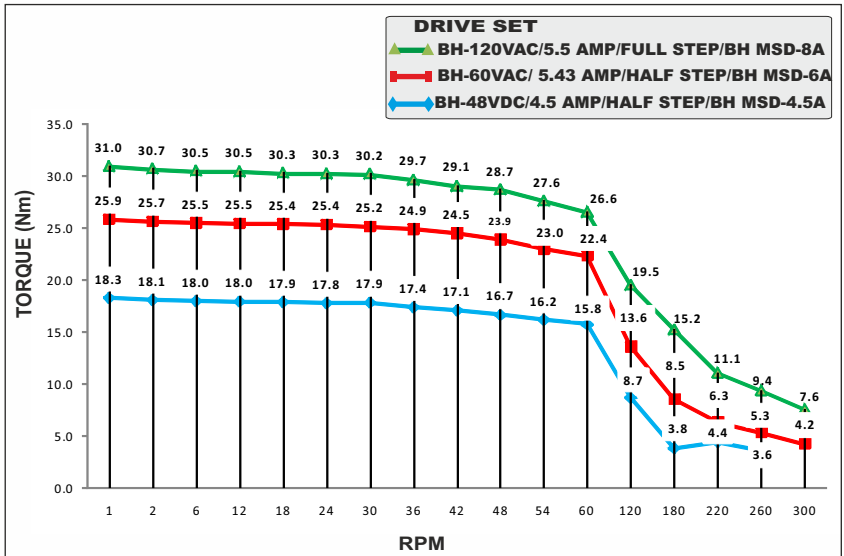


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc minute
Dimensions - Refer drawing
Weight with Gear box - 5.7 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.5 Ω
Inductance per phase - 3.55 mH
Normal current per phase - 5.5 Amp
Rated Voltage - 2.75
Operating Voltage - 48 to 170 VDC
Operating Voltage - 34 to 120 VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 7.0 Nm
Holding Torque with gear Box - 31.5 Nm (315 Kgcm)
Max Radial load(12mm from flange) - ≤ 910N
Max Shaft Axial Load - ≤ 580N
Gear Box Ratio - 5:1
Backlash Arcmin - Precision 10



Max.RPM At Gear Box Shaft - 200 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH96-5504PL

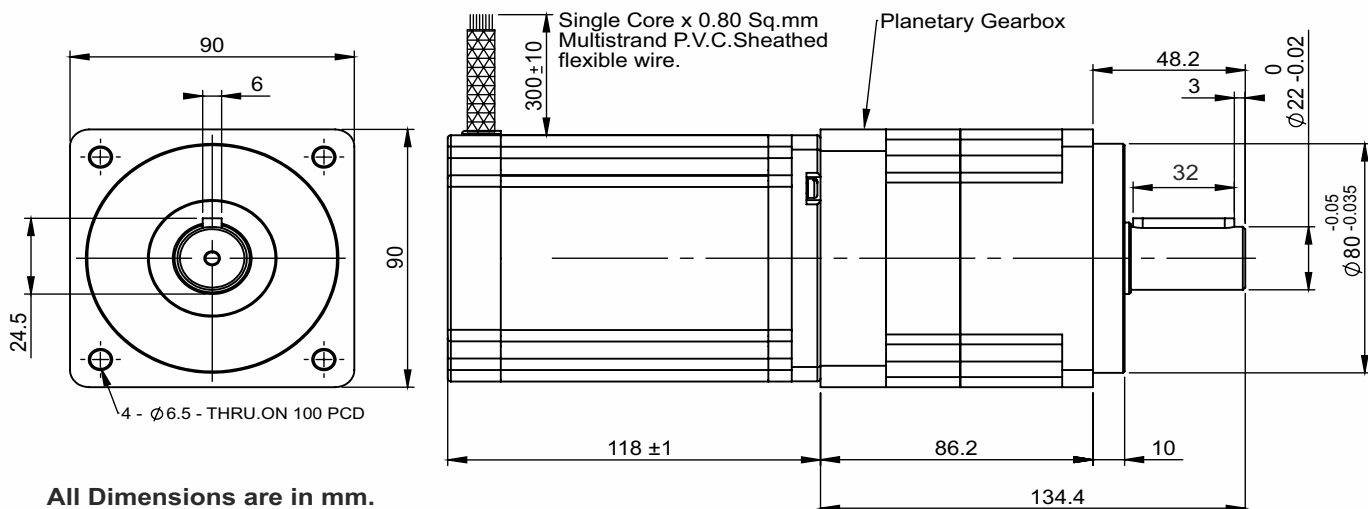


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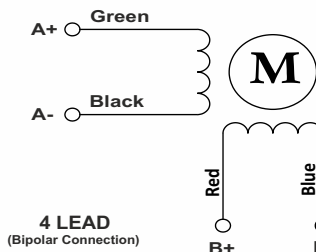
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 118 - 6004 PL
HIGH TORQUE HYBRID

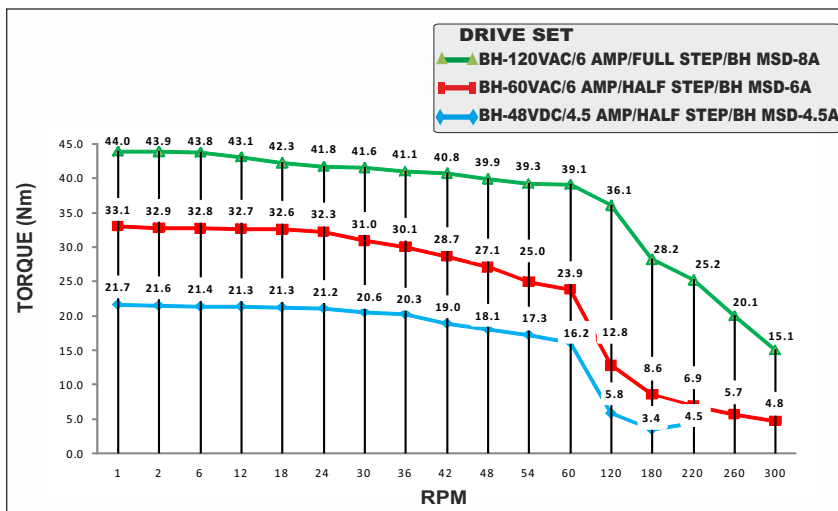
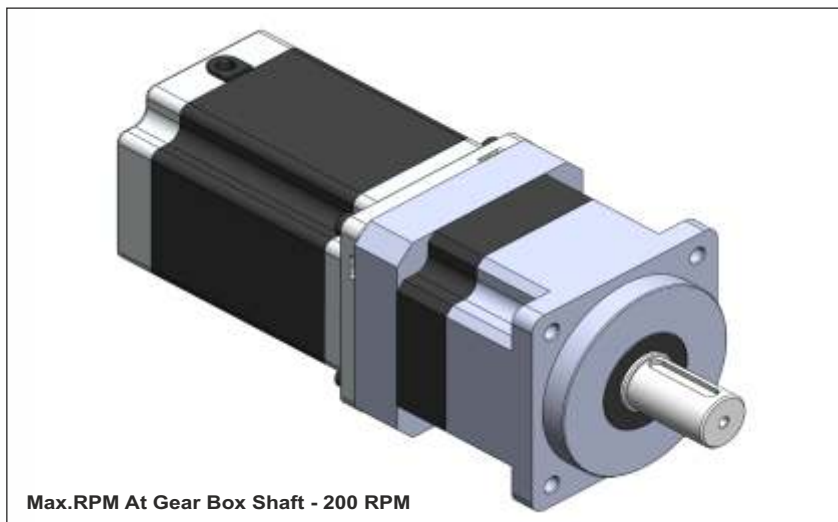


Wiring Diagram



CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Motor Step Angle Accuracy- ± 3 Arc minute
Dimensions - Refer drawing
Weight with Gear box - 6.6 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.42 Ω
Inductance per phase - 4.25 mH
Normal current per phase - 6 Amp
Rated Voltage - 2.52
Operating Voltage - 24 to 170 VDC
Operating Voltage - 34 to 120VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 8.7 Nm
Holding Torque with gear Box - 40.0 Nm (400 Kgcm)
Max Radial load(12mm from flange) - ≤ 910N
Max Shaft Axial Load - ≤ 580N
Gear Box Ratio - 5:1
Backlash Arcmin - Precision 10



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004PL



Bholanath Precision Engineering Pvt.Ltd.

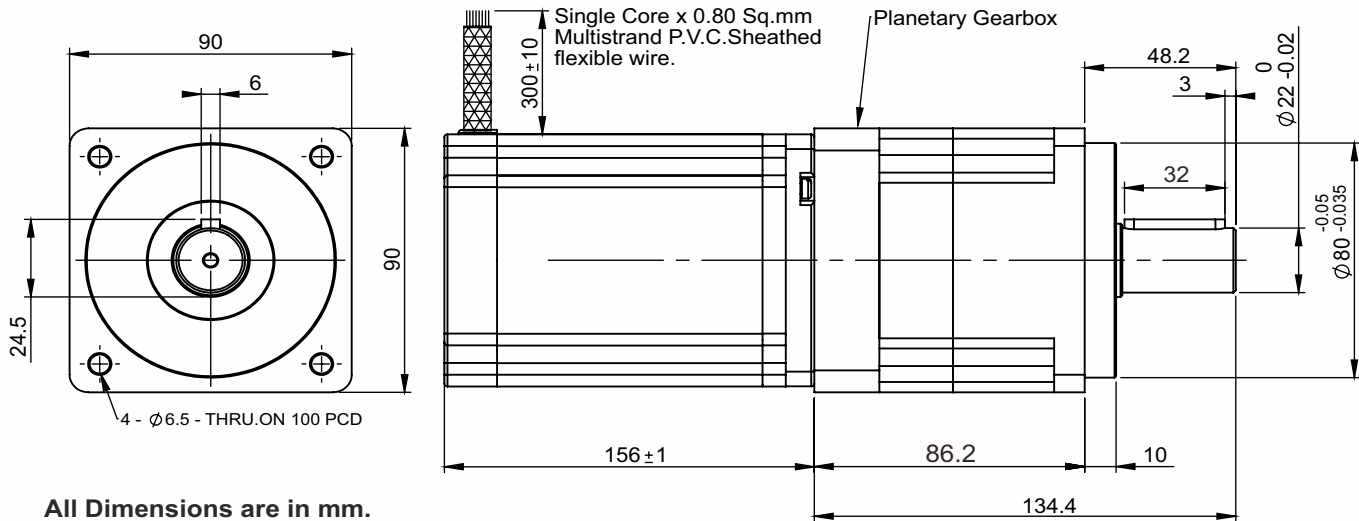
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

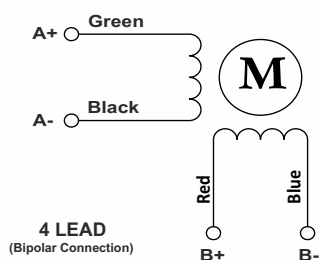
SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6004 PL
HIGH TORQUE HYBRID



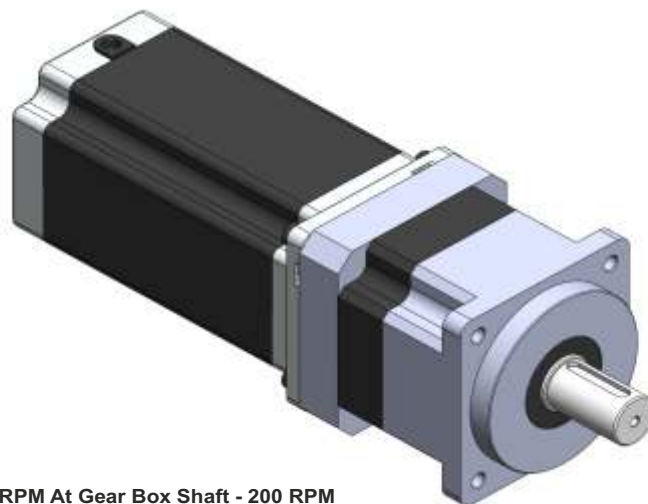
All Dimensions are in mm.

Wiring Diagram

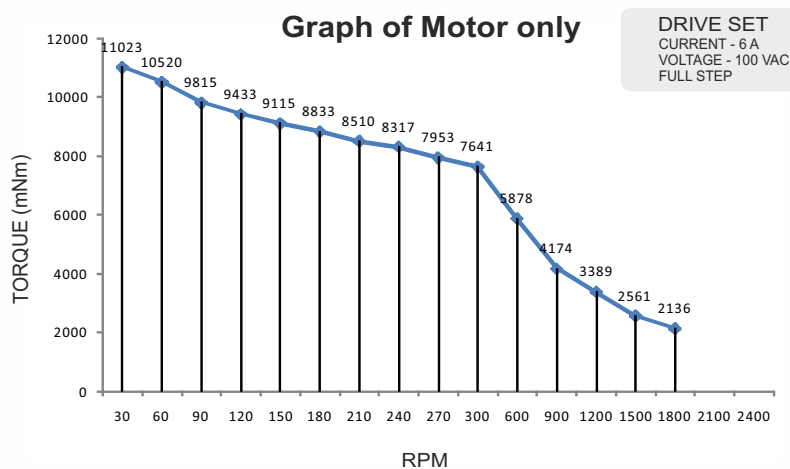


CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Dimensions - Refer drawing
Weight with Gear box - 8.2 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.8 Ω
Inductance per phase - 7.02 mH
Normal current per phase - 6 Amp
Rated Voltage - 4.8
Operating Voltage - 48to 170 VDC
Operating Voltage - 34to 120 VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 12.8 Nm
Holding Torque with gear Box - 60.0 Nm (600 Kgcm)
Max Radial load(12mm from flange) - ≤ 910N
Max Shaft Axial Load - ≤ 580N
Gear Box Ratio - 5:1
Backlash Arcmin - Precision 10



Max.RPM At Gear Box Shaft - 200 RPM



DRIVE SET
CURRENT - 6 A
VOLTAGE - 100 VAC
FULL STEP

PLANETARY GEAR BOX STEPPER MOTOR - BH86SH156-6004PL

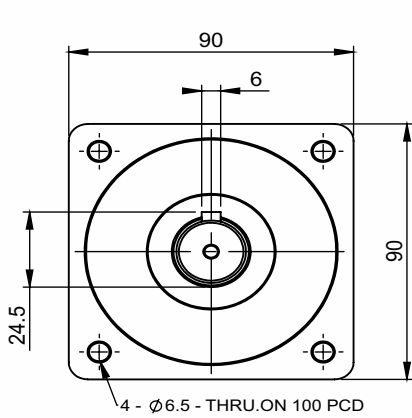


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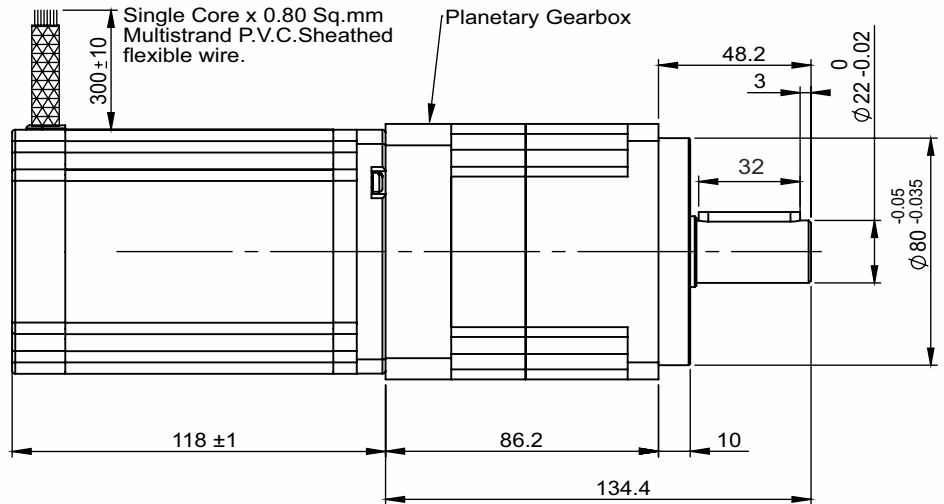
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

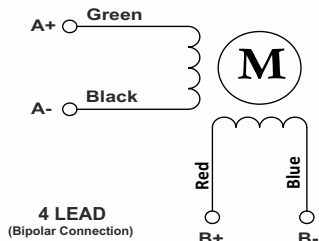
STEPPER MOTOR
BH86 SH 118 - 6004 PL-10
HIGH TORQUE HYBRID



All Dimensions are in mm.

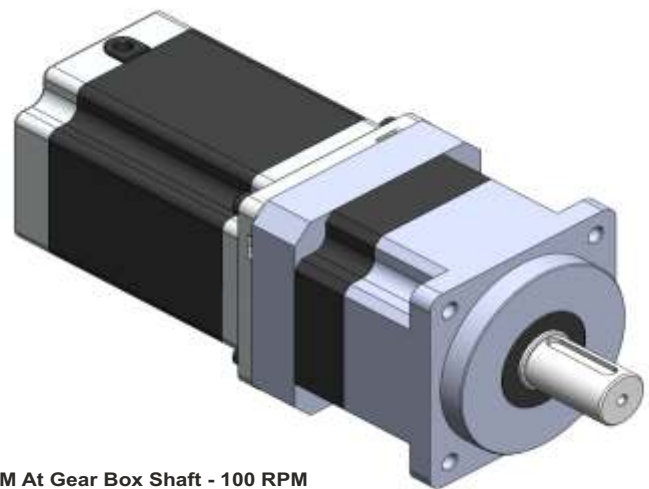


Wiring Diagram

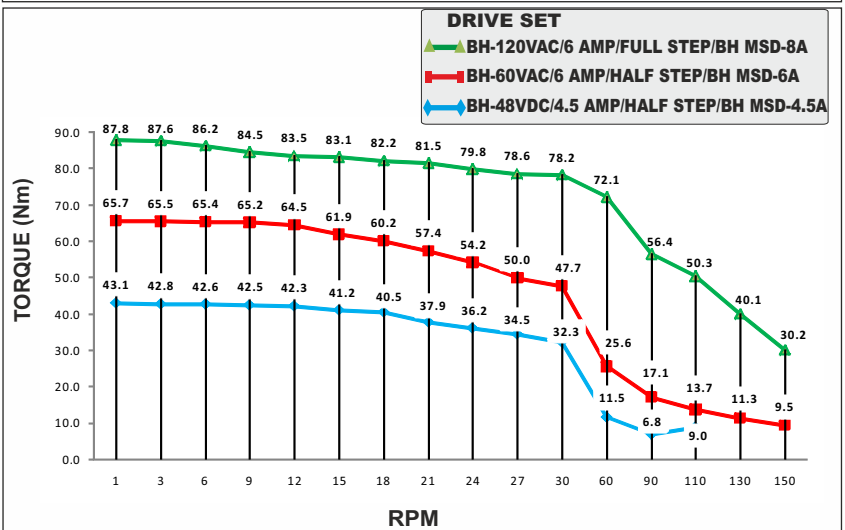


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Motor Step Angle Accuracy - ± 3 Arc minute
- Dimensions - Refer drawing
- Weight with Gear box - 6.9 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.42 Ω
- Inductance per phase - 4.25 mH
- Normal current per phase - 6 Amp
- Rated Voltage - 2.52
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VAC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 8.7 Nm
- Holding Torque with gear Box - 85.0 Nm (850 Kgcm)
- Max Radial load(12mm from flange) - < 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 10:1
- Backlash Arcmin - Precision 10



Max.RPM At Gear Box Shaft - 100 RPM



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH118-6004PL-10



Bholanath Precision Engineering Pvt.Ltd.

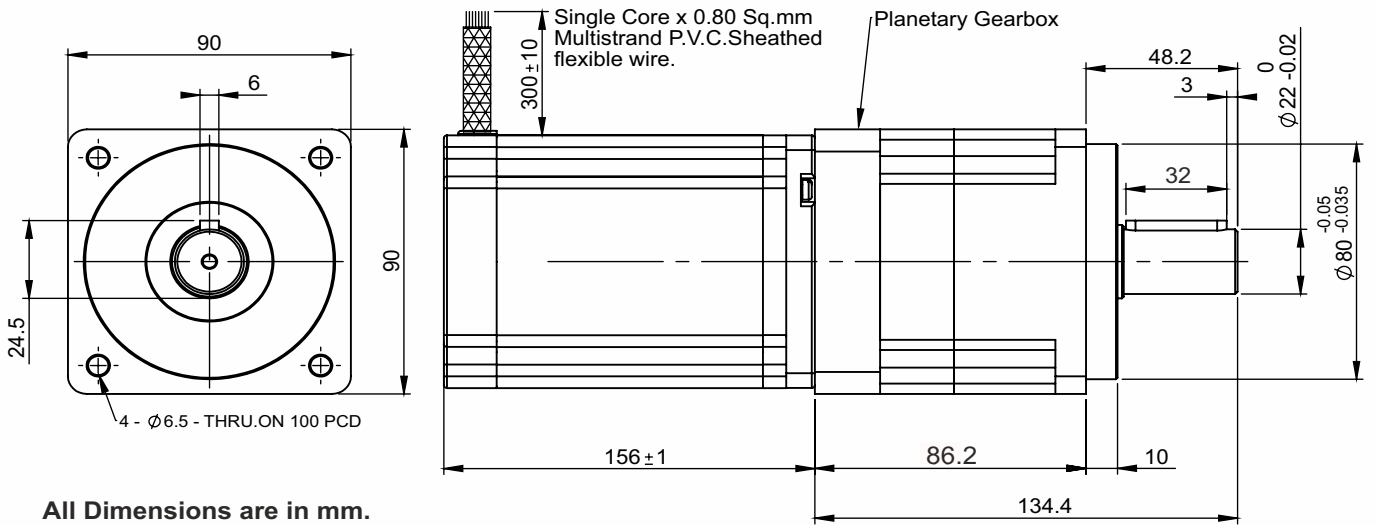
11,Kembros Ind.Estate , Sonapur Lane , Bhandup (W),Mumbai - 400078.

Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

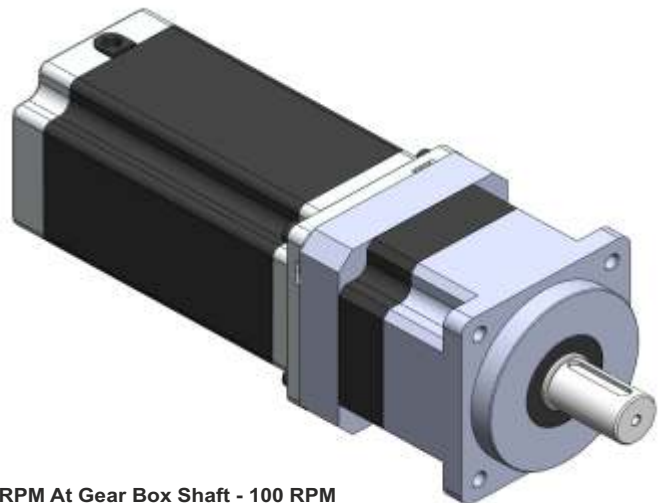
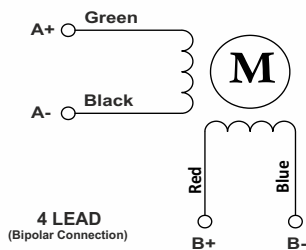
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6004 PL-10
HIGH TORQUE HYBRID



Wiring Diagram

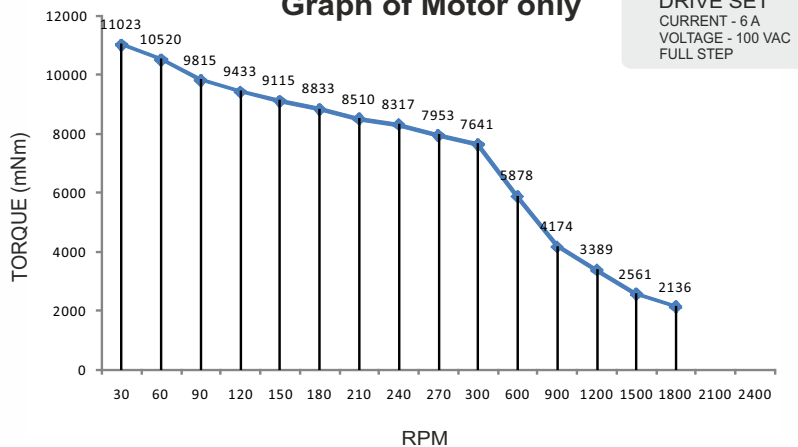


Max.RPM At Gear Box Shaft - 100 RPM

CHARACTERISTICS

Motor - Bipolar
Steps per Revolution - 200
Step Angle - 1.8 degree
Dimensions - Refer drawing
Weight with Gear box - 9.0 Kg
Insulation Class - Class H
Protection Class - DIN40050 - IP30
Resistance of Insulation - 100M Ω 500 VDC
Resistance per phase - 0.8 Ω
Inductance per phase - 7.02 mH
Normal current per phase - 6 Amp
Rated Voltage - 4.8
Operating Voltage - 48 to 170 VDC
Operating Voltage - 34 to 120 VAC
Stock Temperature - (-10°C to + 70°C)
Operation Temperature - (-10°C to + 40°C)
Holding Torque Of Motor - 12.8 Nm
Holding Torque with gear Box - 125.0 Nm (1250 Kgcm)
Max Radial load(12mm from flange) - ≤ 910N
Max Shaft Axial Load - ≤ 580N
Gear Box Ratio - 10:1
Backlash Arcmin - Precision 10

Graph of Motor only



PLANETARY GEAR BOX STEPPER MOTOR - BH86SH156-6004PL-10



Bholanath Precision Engineering Pvt.Ltd.

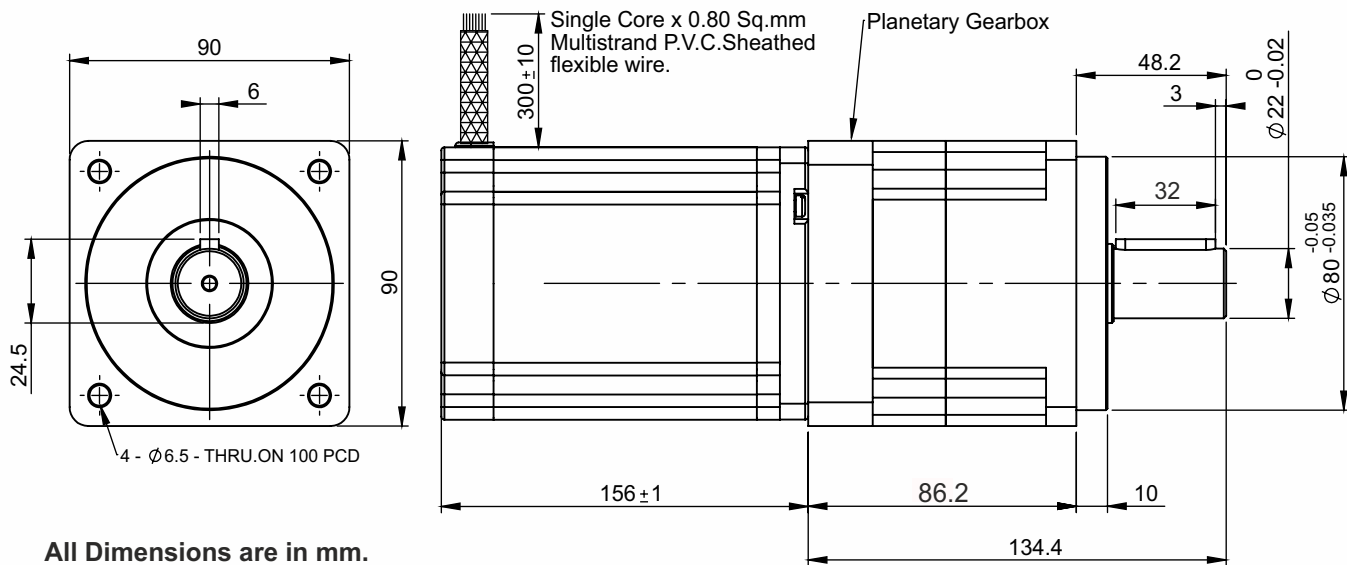
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Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

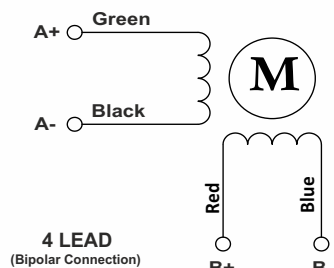
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6204 PL-10
HIGH TORQUE HYBRID

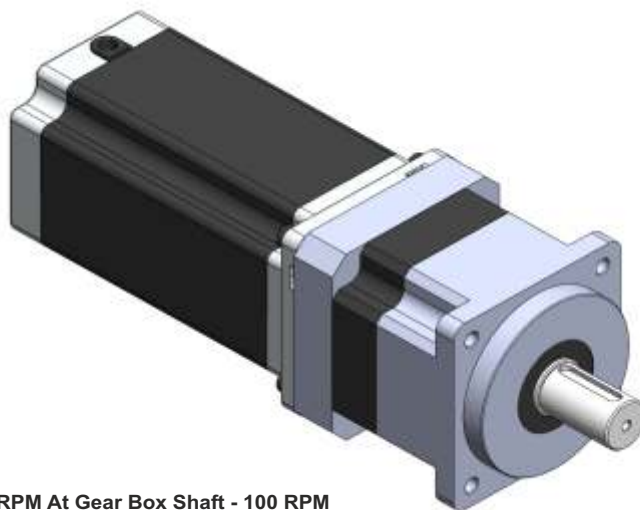


Wiring Diagram

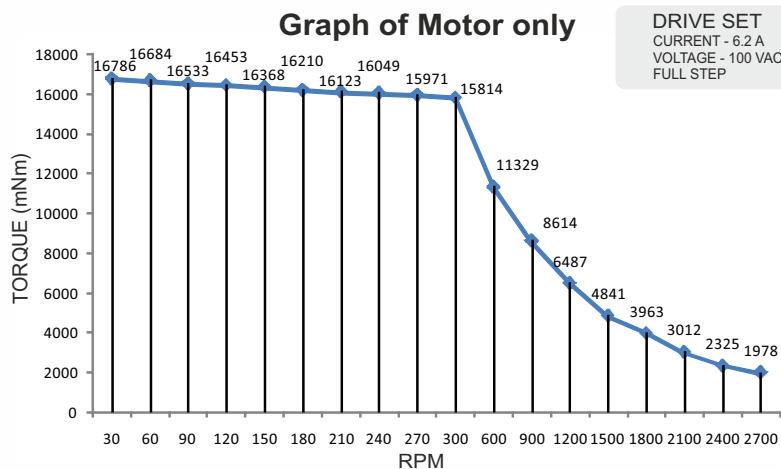


CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Dimensions - Refer drawing
- Weight with Gear box - 8.5 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.85 Ω
- Inductance per phase - 9.4 mH
- Normal current per phase - 6.2 Amp
- Operating Voltage - 24 to 140 VDC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Rated Voltage - 5.27
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VAC
- Holding Torque Of Motor - 18.0 Nm
- Holding Torque with gear Box - 180.0 Nm (1800 Kgcm)
- Max Radial load(12mm from flange) - ≤ 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 10:1
- Backlash Arcmin - Precision 10



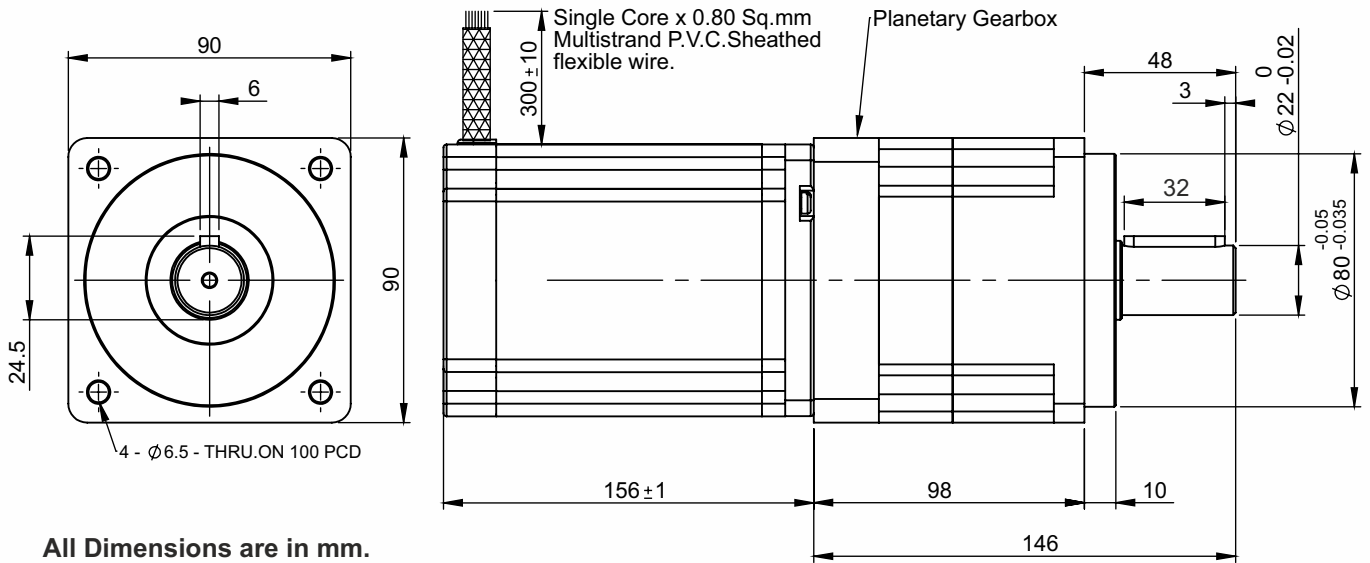
Max.RPM At Gear Box Shaft - 100 RPM



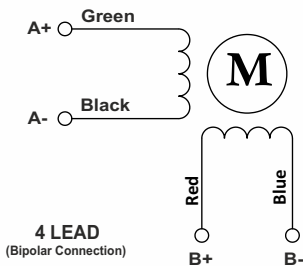
PLANETARY GEAR BOX STEPPER MOTOR - BH86SH156-6204PL-10

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6004 PL-100
HIGH TORQUE HYBRID

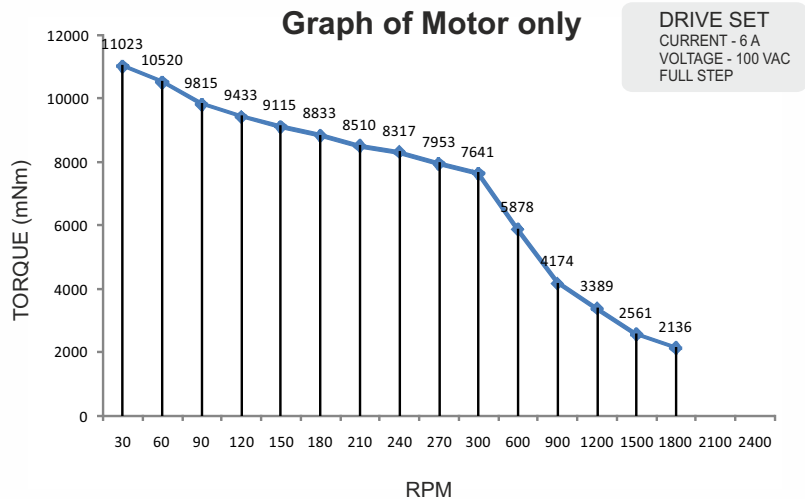
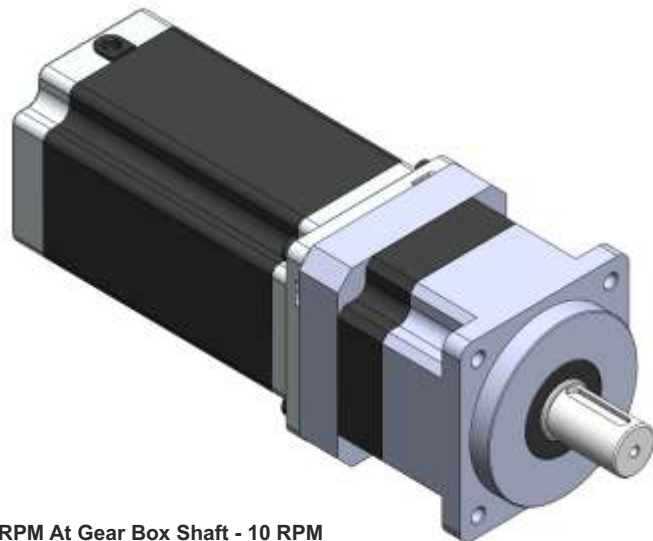


Wiring Diagram



CHARACTERISTICS

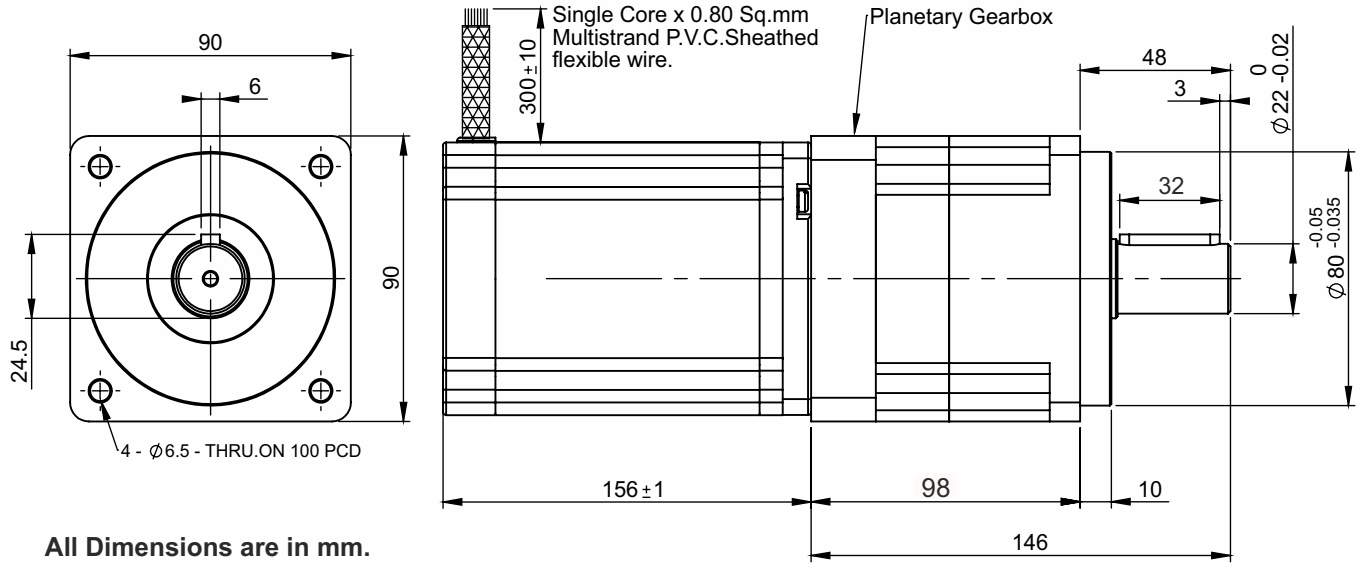
- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Dimensions - Refer drawing
- Weight with Gear box - 8.7 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.8 Ω
- Inductance per phase - 7.02 mH
- Normal current per phase - 6 Amp
- Rated Voltage - 4.8
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VDC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 12.8 Nm
- Holding Torque with gear Box - 1280 Nm (12800 Kgcm)
- Max Radial load(12mm from flange) - ≤ 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 100:1
- Backlash Arcmin - Precision 10



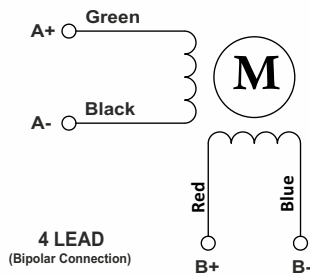
PLANETARY GEAR BOX STEPPER MOTOR - BH86SH156-6004PL-100

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6204 PL-100
HIGH TORQUE HYBRID

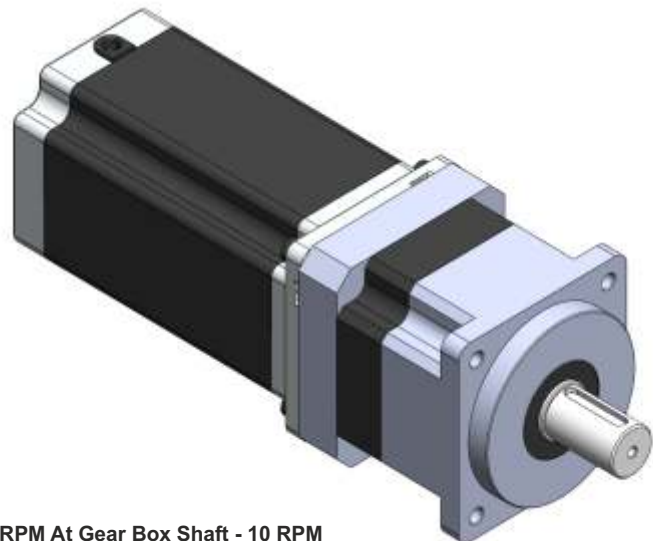


Wiring Diagram



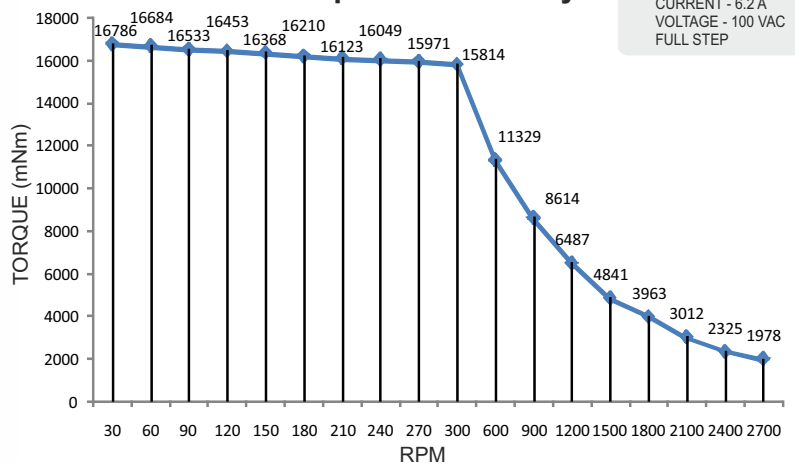
CHARACTERISTICS

- Motor - Bipolar
- Steps per Revolution - 200
- Step Angle - 1.8 degree
- Dimensions - Refer drawing
- Weight with Gear box - 8.7 Kg
- Insulation Class - Class H
- Protection Class - DIN40050 - IP30
- Resistance of Insulation - 100M Ω 500 VDC
- Resistance per phase - 0.85 Ω
- Inductance per phase - 9.4 mH
- Normal current per phase - 6.2 Amp
- Rated Voltage - 5.27
- Operating Voltage - 48 to 170 VDC
- Operating Voltage - 34 to 120 VDC
- Stock Temperature - (-10°C to + 70°C)
- Operation Temperature - (-10°C to + 40°C)
- Holding Torque Of Motor - 18.0 Nm
- Holding Torque with gear Box - 1800.0 Nm (18000 Kgcm)
- Max Radial load(12mm from flange) - ≤ 910N
- Max Shaft Axial Load - ≤ 580N
- Gear Box Ratio - 100:1
- Backlash Arcmin - Precision 10



Max.RPM At Gear Box Shaft - 10 RPM

Graph of Motor only



DRIVE SET
CURRENT - 6.2 A
VOLTAGE - 100 VAC
FULL STEP

PLANETARY GEAR BOX STEPPER MOTOR - BH86SH156-6204PL-100

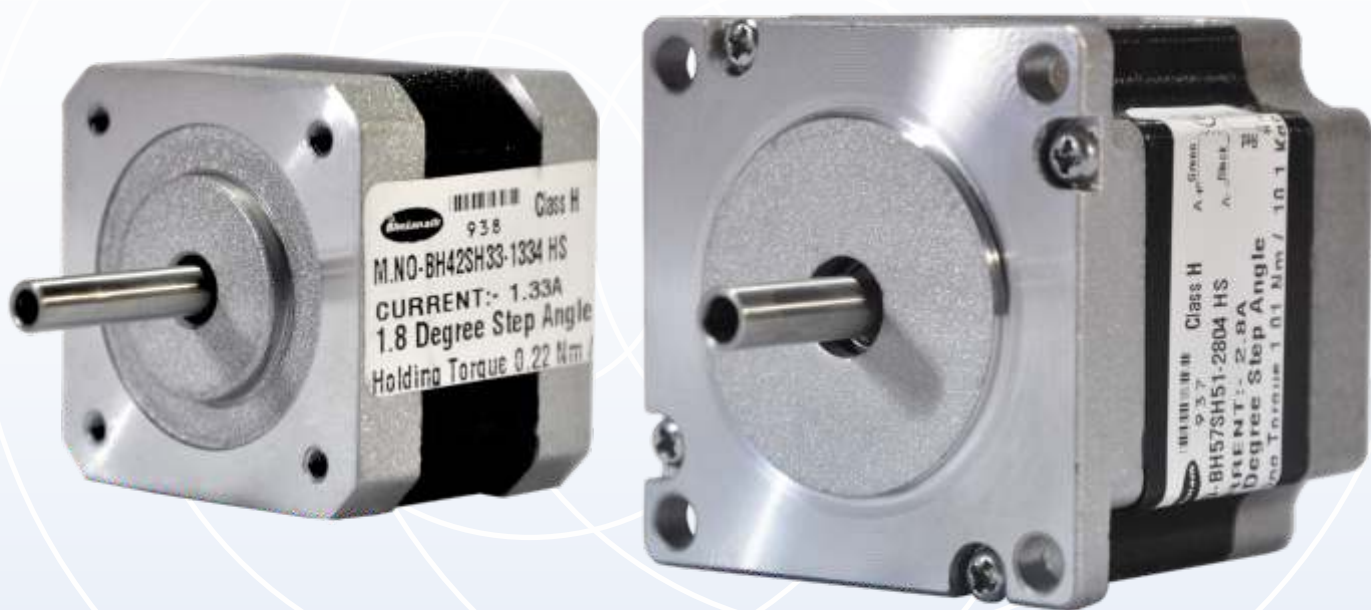


SIZE NEMA 17, 23 (42, 57MM)

2 - phase Stepping Motor

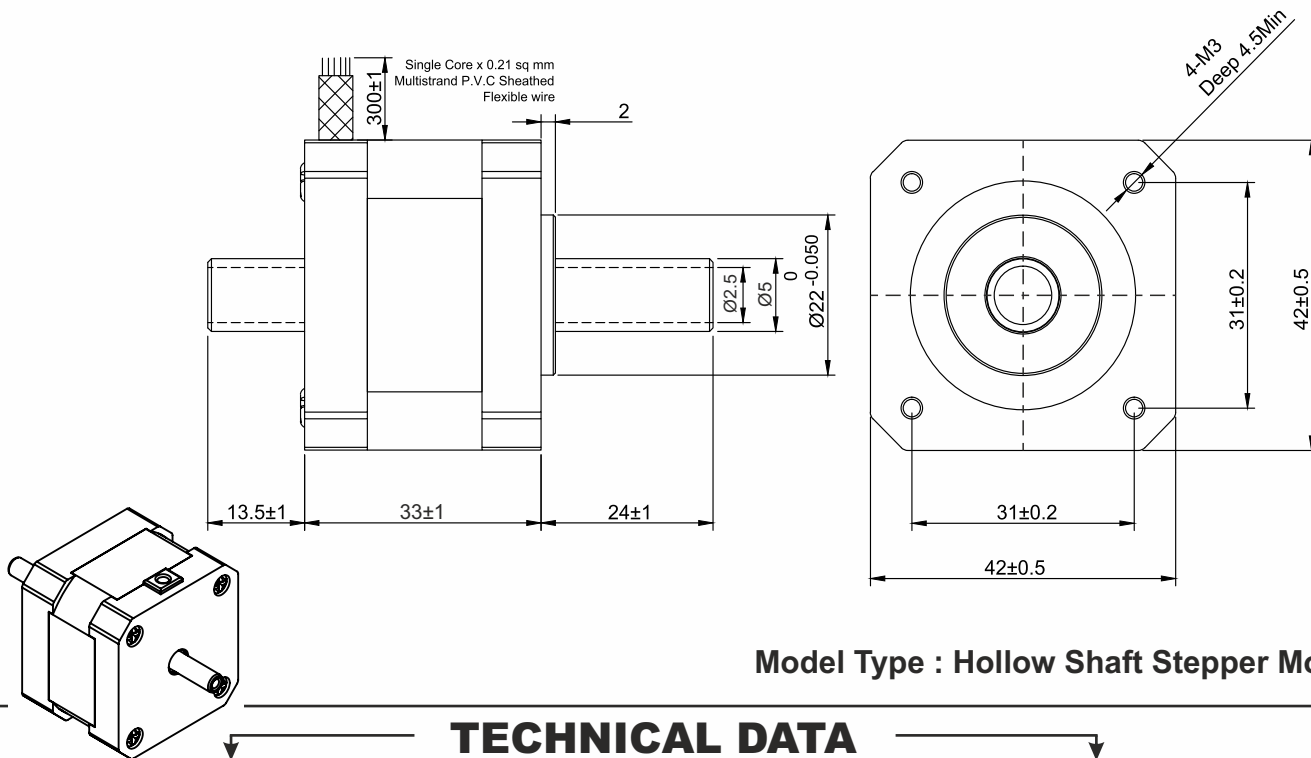
1.8° High Torque Hybrid Stepper Motor

HOLLOW SHAFT STEPPER MOTOR



**SPECIFICATION
SHEET**
Bholanath

STEPPER MOTOR
BH 42 SH 33 - 1334 HS
HIGH TORQUE HYBRID



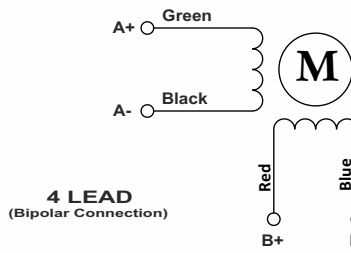
Model Type : Hollow Shaft Stepper Motor

TECHNICAL DATA

CHARACTERISTICS

Step Angle - 1.8 ⁰
Step Angle Accuracy - ± 3 Arc Minute
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

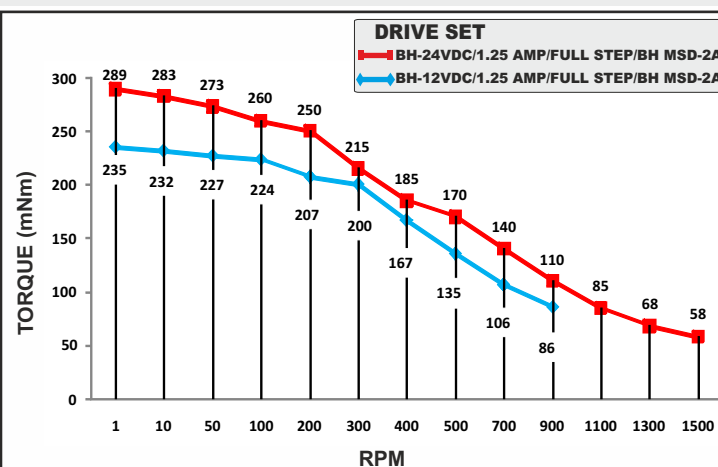
Wiring Diagram



SPECIFICATION

BH 42 SH 33- 1334 HS

	MODEL		Bipolar
1	Rated Voltage	V	2.8
2	Current / Phase	A	1.33
3	Resistance / Phase	± 10% Ω	2.1
4	Inductance / Phase	± 20% mH	1.6
5	Holding Torque	Nm	0.22
6	Rotor Inertia	G-CM ²	35
7	Weight	KG.	0.27
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	12 - 24



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COMMITTED TO PRECISION

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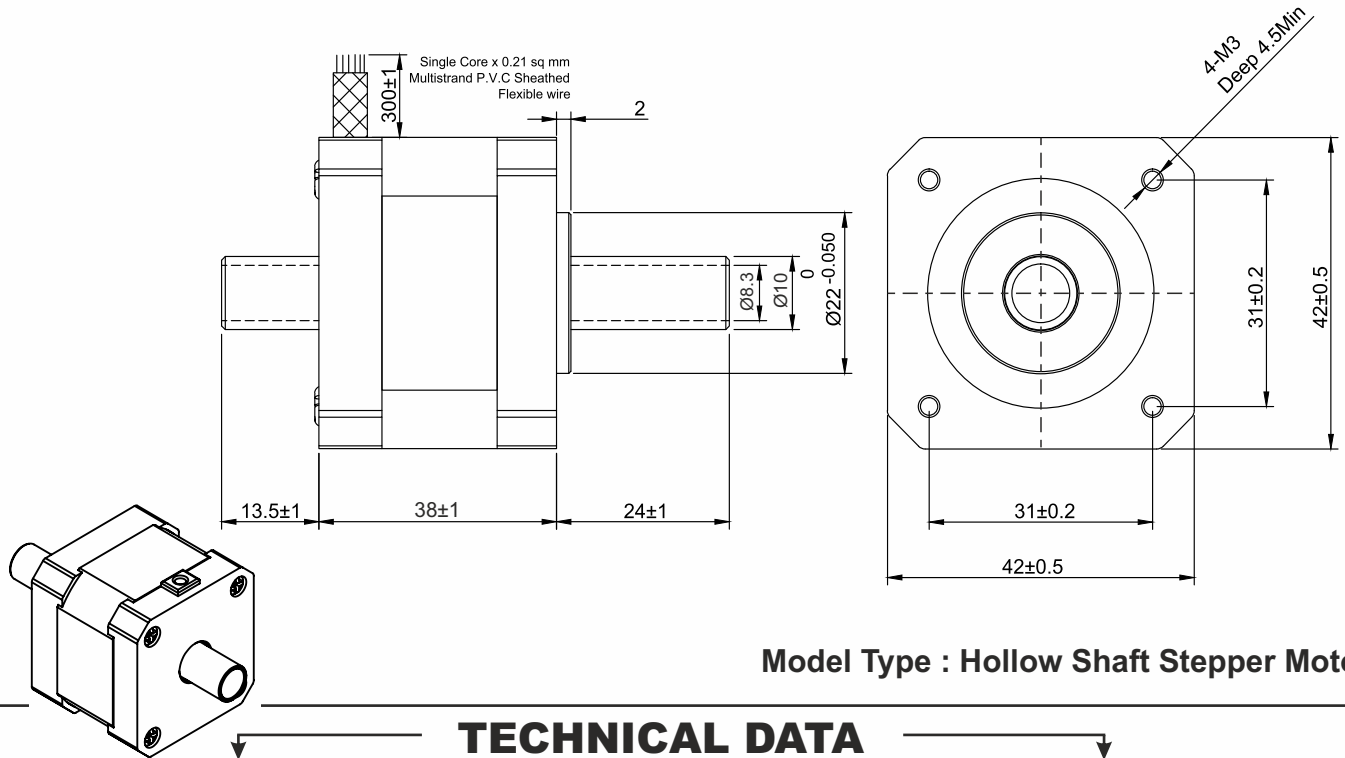
BHOLANATH COOL STEPPERS

Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 42 SH 38 - 1684 HS
HIGH TORQUE HYBRID



Model Type : Hollow Shaft Stepper Motor

TECHNICAL DATA

CHARACTERISTICS

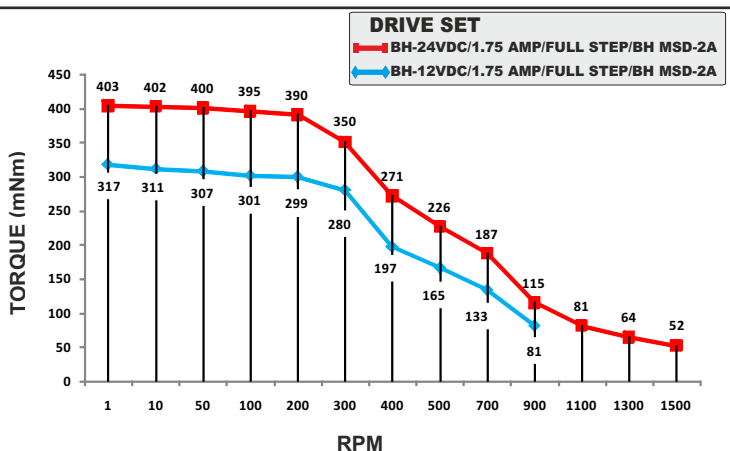
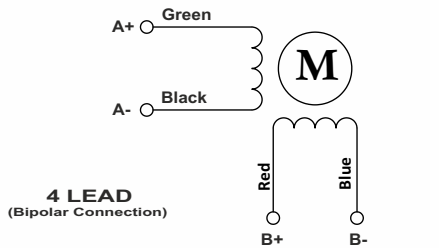
- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. 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 38- 1684 HS

MODEL	BH 42 SH 38- 1684 HS		
1	Rated Voltage	V	3.63
2	Current / Phase	A	1.68
3	Resistance / Phase	± 10% Ω	2.1
4	Inductance / Phase	± 20% mH	1.80
5	Holding Torque	Nm	0.36
6	Rotor Inertia	G-CM ²	54
7	Weight	KG.	0.38
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	12 - 24

Wiring Diagram

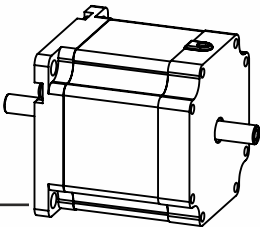
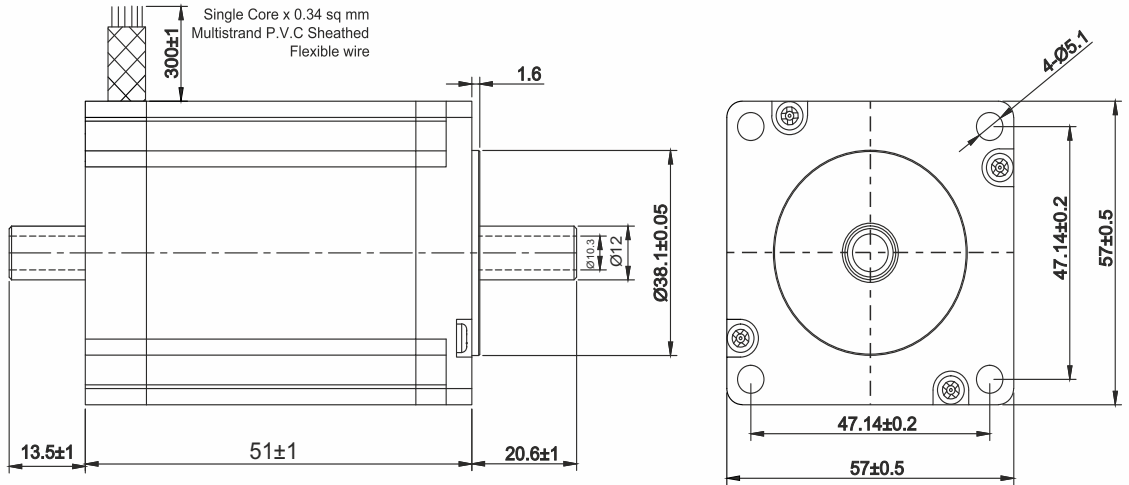


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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 57 SH 51 - 2804 HS
HIGH TORQUE HYBRID



Model Type : Hollow Shaft Stepper Motor

TECHNICAL DATA

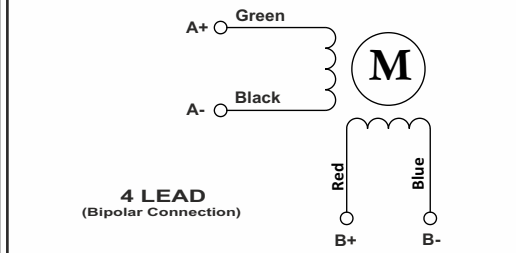
CHARACTERISTICS

Step Angle - 1.8 ⁰
Step Angle Accuracy - ± 3 Arc Minute
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

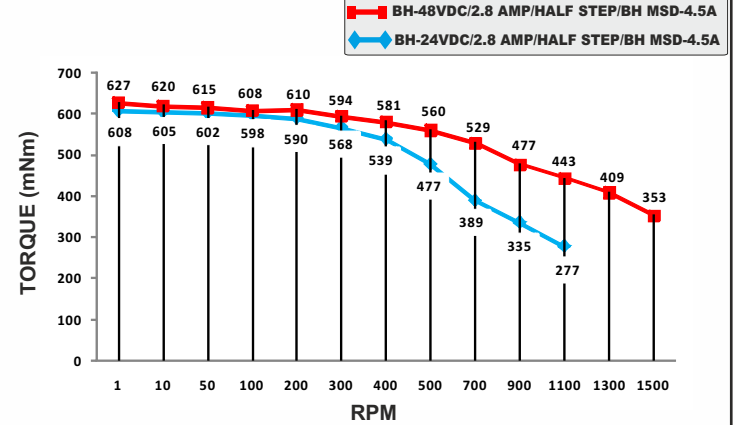
SPECIFICATION

	MODEL	BH 57 SH 51- 2804 HS	
1	Rated Voltage	V	2.46
2	Current / Phase	A	2.8
3	Resistance / Phase	± 10% Ω	0.88
4	Inductance / Phase	± 20% mH	2.2
5	Holding Torque	Nm	1.01
6	Rotor Inertia	G-CM ²	275
7	Weight	KG.	0.650
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram



DRIVE SET

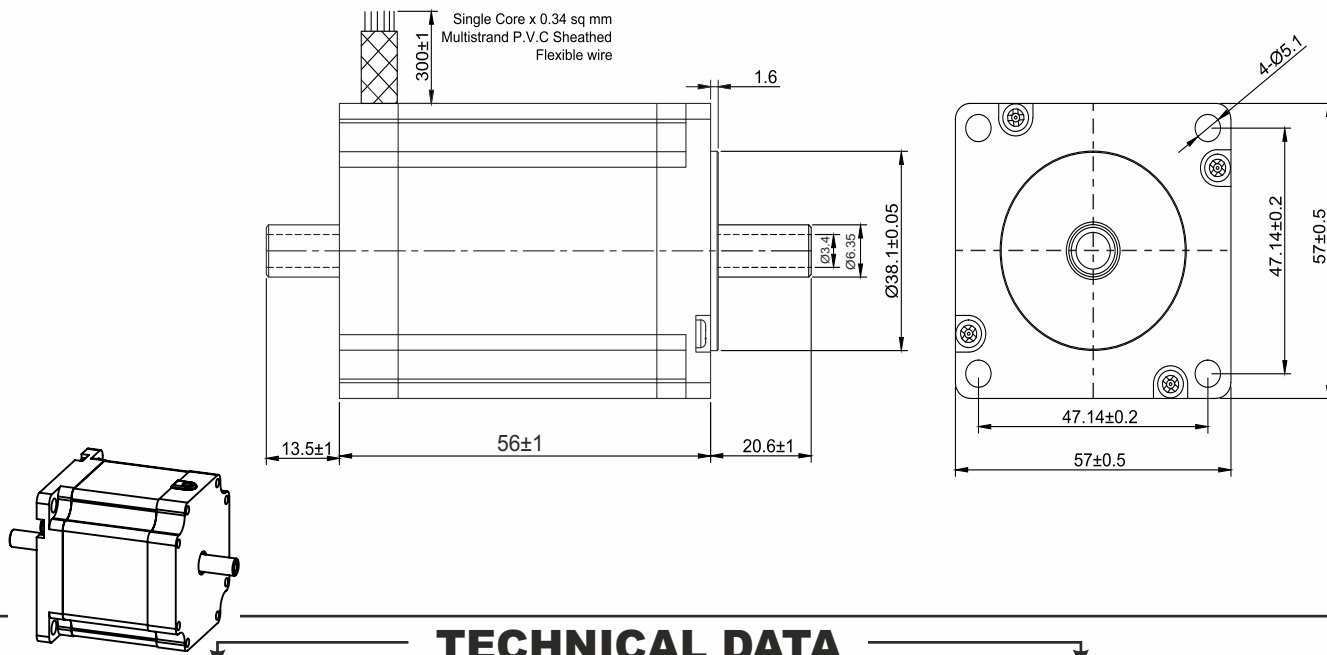


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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

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



TECHNICAL DATA

CHARACTERISTICS

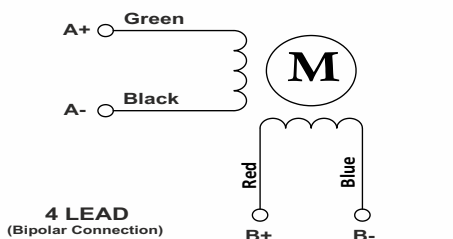
- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. 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

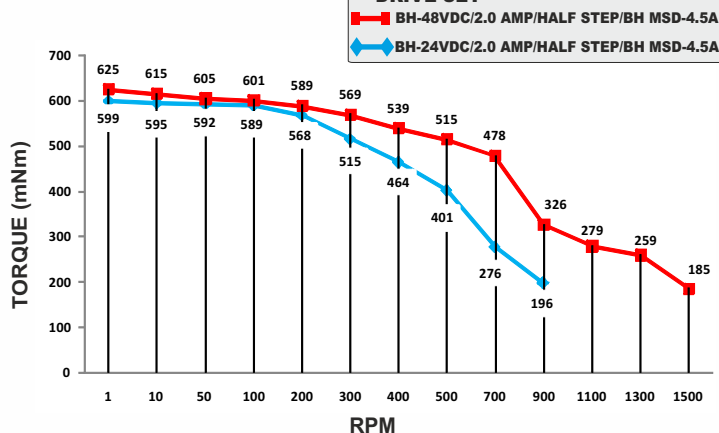
BH 57 SH 56- 2004 HS

	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.	0.75
8	No of Lead	N°	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram



DRIVE SET



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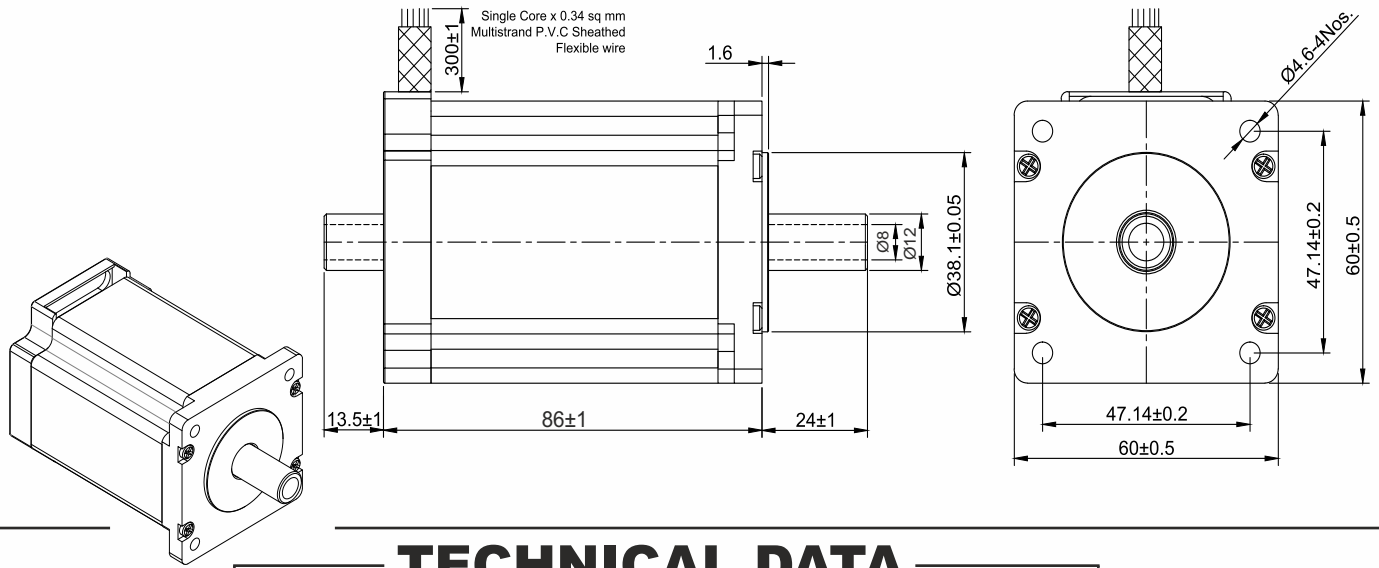
11,Kembros Ind.Estate , Sonapur Lane , Bhandup (W),Mumbai - 400078.

Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH60 SH 86 - 4004HS
HIGH TORQUE HYBRID



TECHNICAL DATA

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)

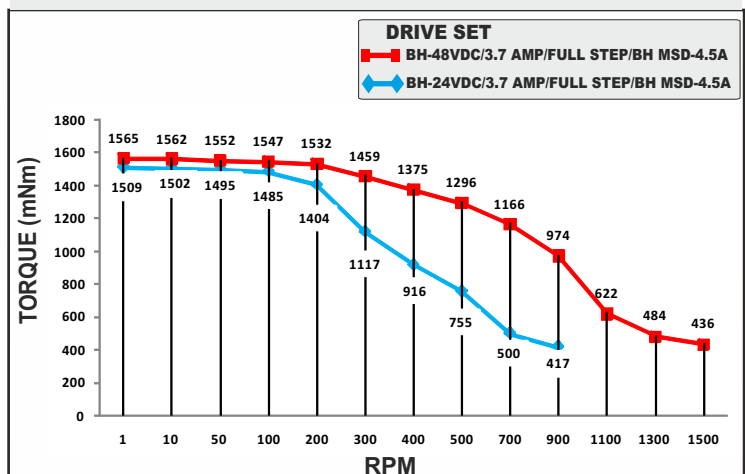
Max.Radial Force
75 N (20MM From Front Flange)

Max.Axial Force
15 N

SPECIFICATION

BH60SH86 - 4004 HS

	MODEL	Bipolar	
1	Rated Voltage	V	2.76
2	Current / Phase	A	4
3	Resistance / Phase	± 10% Ω	0.69
4	Inductance / Phase	± 20% mH	2.65
5	Holding Torque	Nm	3.1
6	Rotor Inertia	G-CM ²	840
7	Weight	KG.	1.4
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	24 - 42



STEPPER MOTOR - BH60SH86-4004HS



Bholanath Precision Engineering Pvt.Ltd.

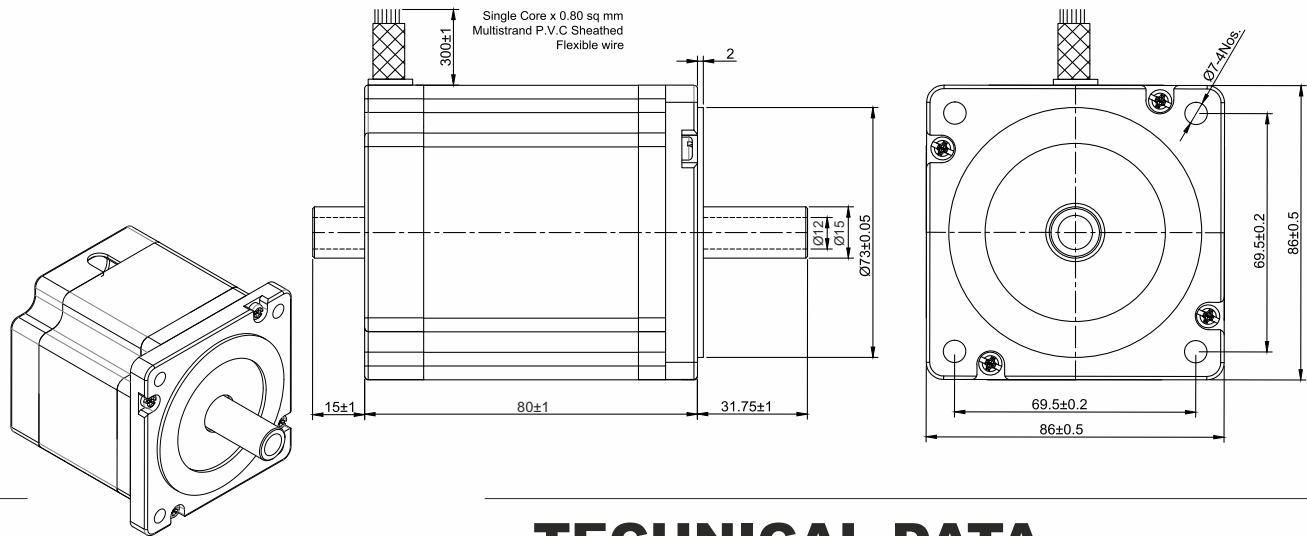
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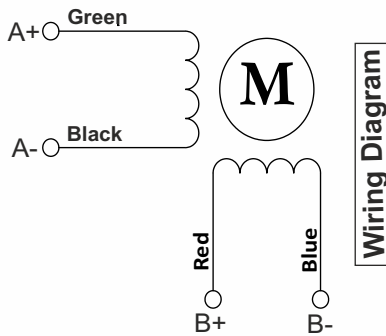
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 80 - 5504HS
HIGH TORQUE HYBRID



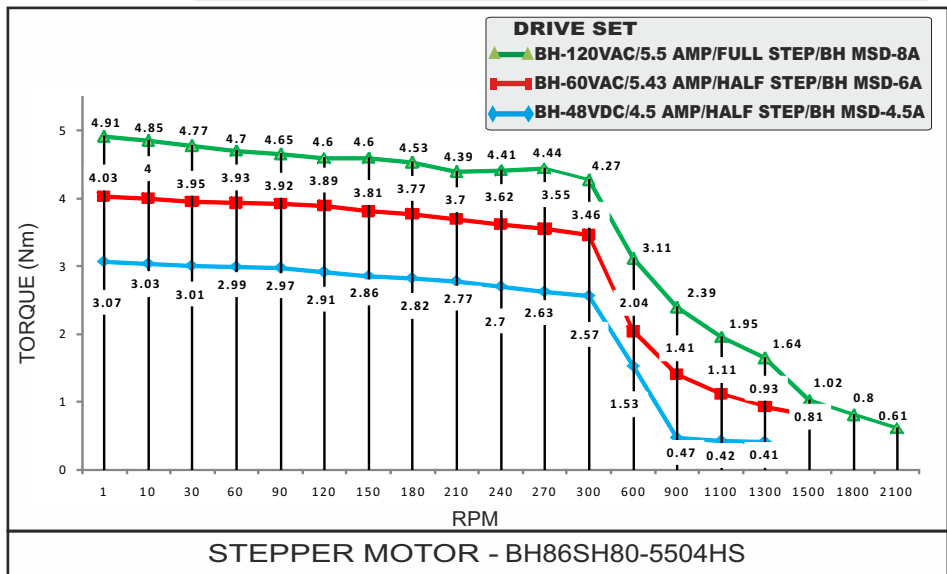
TECHNICAL DATA



SPECIFICATION		BH86SH80 - 5504 HS	
	MODEL	Bipolar	
1	Rated Voltage	V	2.42
2	Current / Phase	A	5.5
3	Resistance / Phase	± 10% Ω	0.44
4	Inductance / Phase	± 20% mH	3.6
5	Holding Torque	Nm	4.6
6	Rotor Inertia	G-CM ²	1400
7	Weight	KG.	2.5
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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

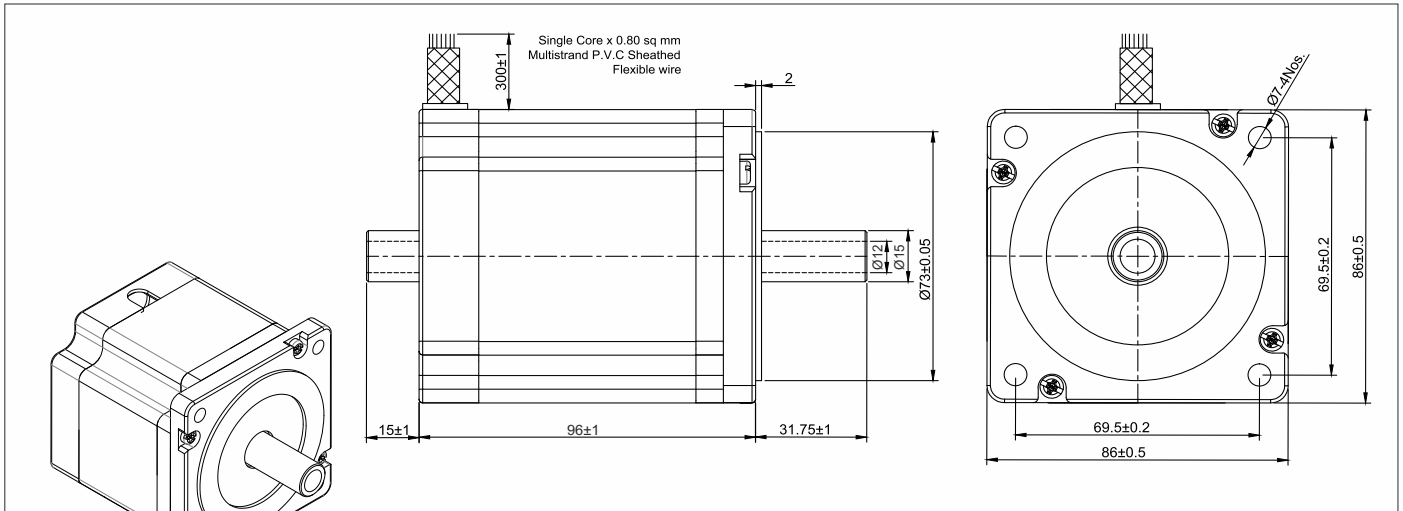


Bholanath Precision Engineering Pvt.Ltd.

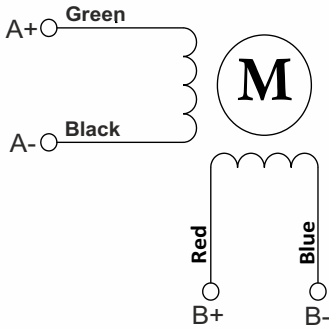
11,Kembros Ind.Estate , Sonapur Lane , Bhandup (W),Mumbai - 400078.
Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in
Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 96 - 5504HS
HIGH TORQUE HYBRID



TECHNICAL DATA

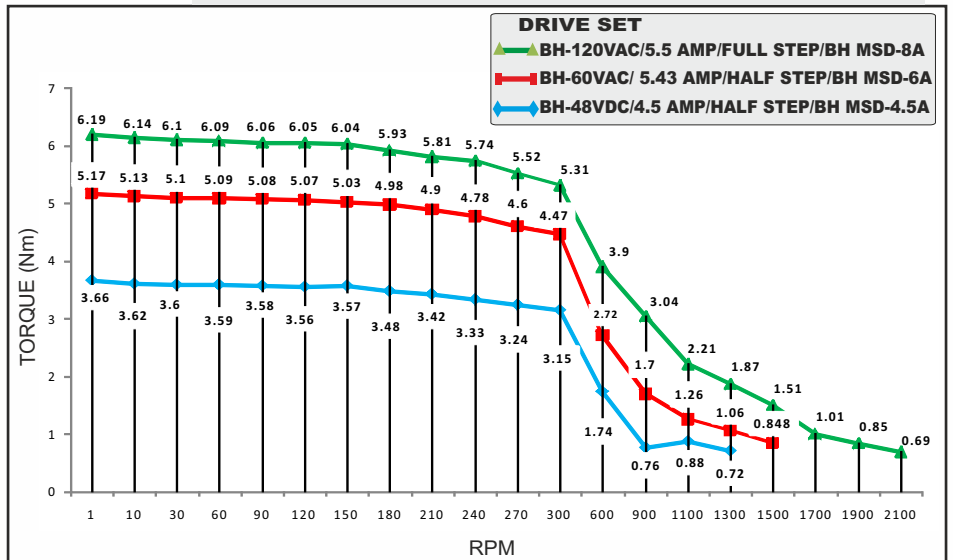


Wiring Diagram

SPECIFICATION		BH86SH96 - 5504 HS	
	MODEL	Bipolar	
1	Rated Voltage	V	2.75
2	Current / Phase	A	5.5
3	Resistance / Phase	± 10% Ω	0.5
4	Inductance / Phase	± 20% mH	3.55
5	Holding Torque	Nm	7.00
6	Rotor Inertia	G-CM ²	2700
7	Weight	KG.	3.1
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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



STEPPER MOTOR - BH86SH96-5504HS

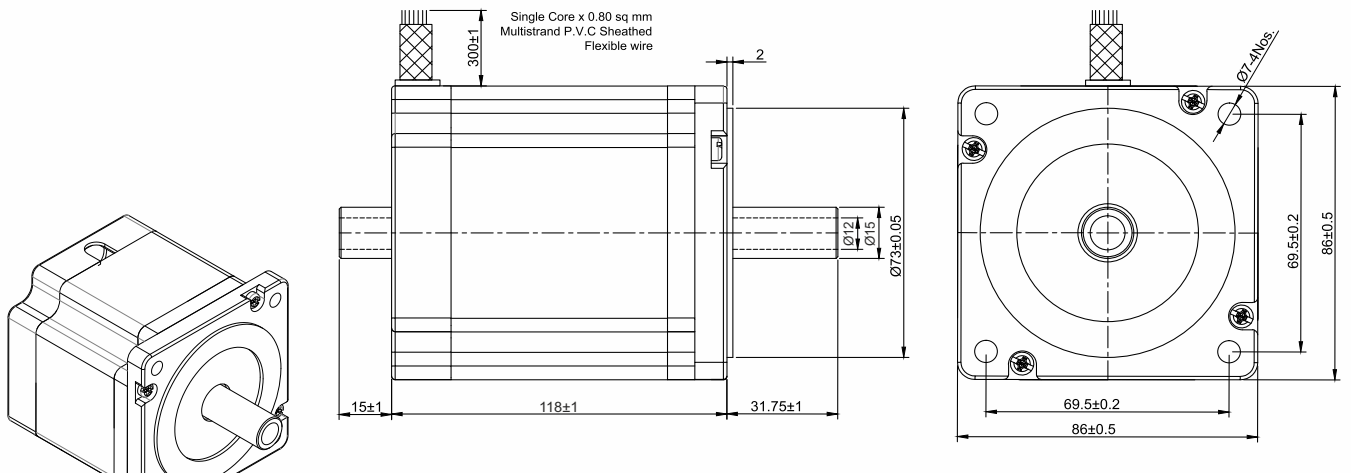


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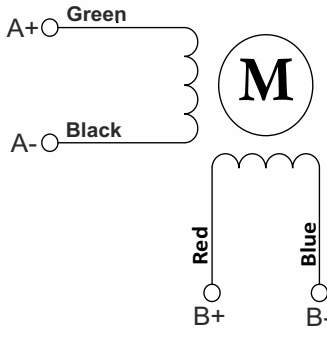
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 118 - 6004HS
HIGH TORQUE HYBRID



TECHNICAL DATA

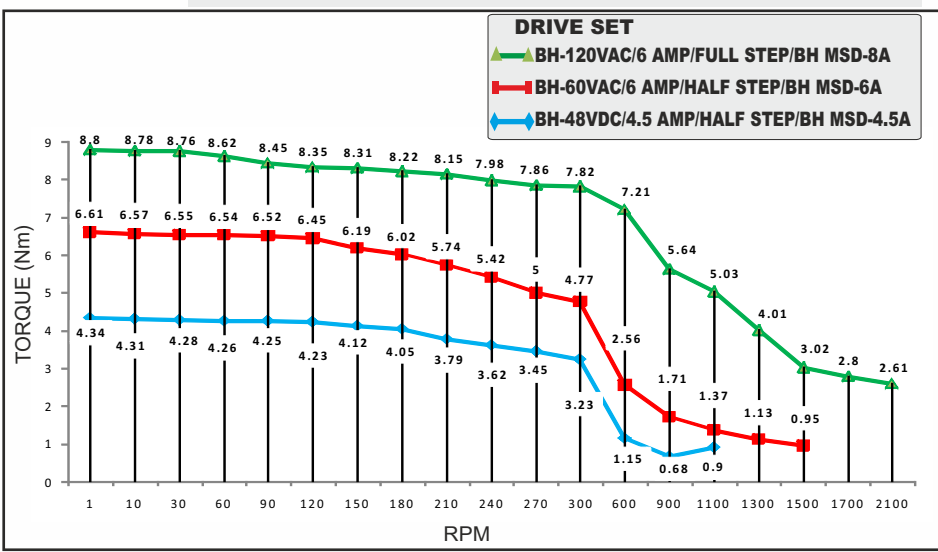


Wiring Diagram

SPECIFICATION		BH 86SH 118 - 6004 HS	
	MODEL	Bipolar	
1	Rated Voltage	V	2.52
2	Current / Phase	A	6
3	Resistance / Phase	± 10% Ω	0.42
4	Inductance / Phase	± 20% mH	4.25
5	Holding Torque	Nm	8.70
6	Rotor Inertia	G-CM ²	2700
7	Weight	KG.	4
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

CHARACTERISTICS

- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature -
- Temperature Rise - 80°C Max. -20°C + 50°C (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



STEPPER MOTOR - BH86SH118- 6004 HS



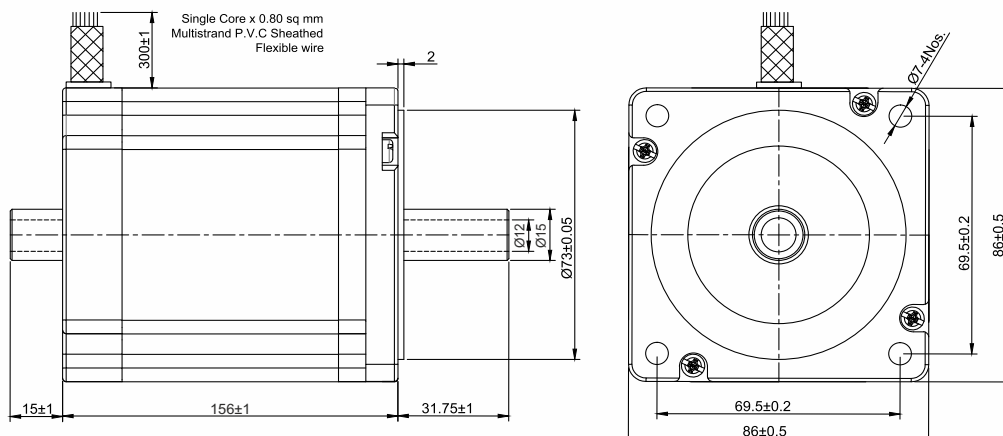
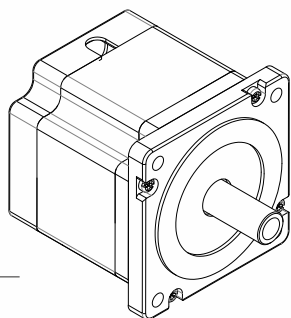
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 Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

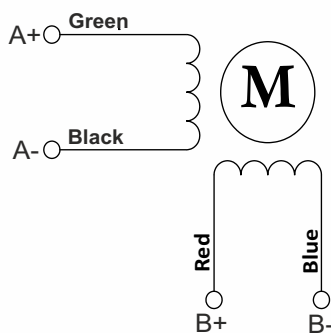
SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6004HS
HIGH TORQUE HYBRID

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TECHNICAL DATA



Wiring Diagram

SPECIFICATION		BH 86SH 156 - 6004 HS	
	MODEL		Bipolar
1	Rated Voltage	V	4.8
2	Current / Phase	A	6
3	Resistance / Phase	± 10% Ω	0.8
4	Inductance / Phase	± 20% mH	10.5
5	Holding Torque	Nm	12.8
6	Rotor Inertia	G-CM ²	4000
7	Weight	KG.	5.5
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

CHARACTERISTICS

Step Angle - 1.8°

Step Angle Accuracy - ± 3 Arc Minute

Insulation Class - H

Ambient Temperature -

Temperature Rise - 80°C Max
(Rated Current Phase 2 ON) -20°C + 50°C

Insulation Resistance
100 M Ohms Min.500 VDC

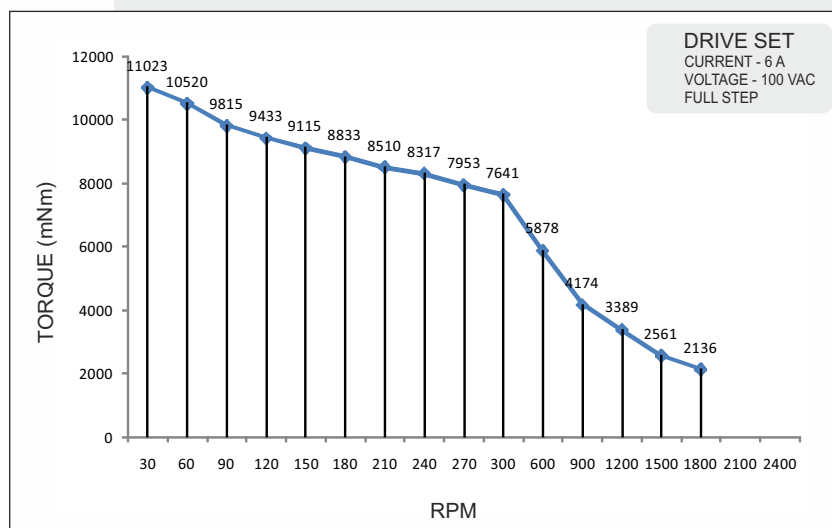
Dielectric Strength
820 VAC For One Minute

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



STEPPER MOTOR - BH86SH156- 6004 HS

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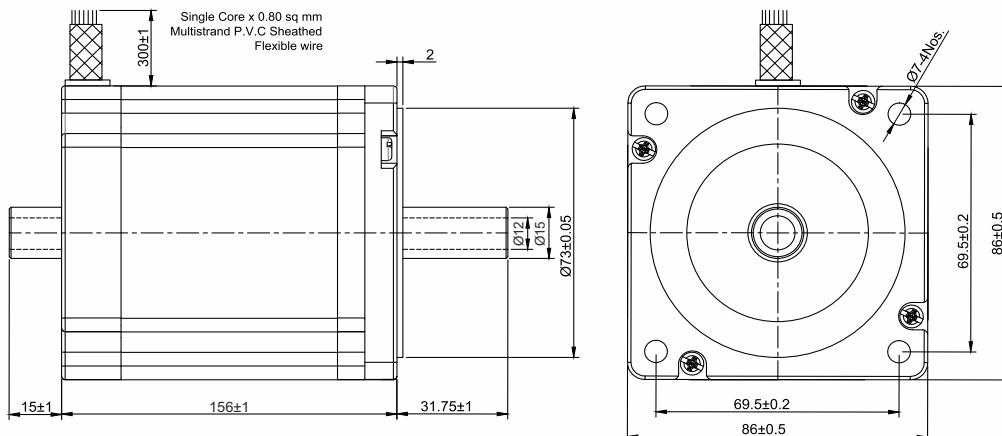
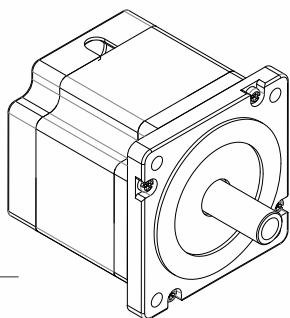
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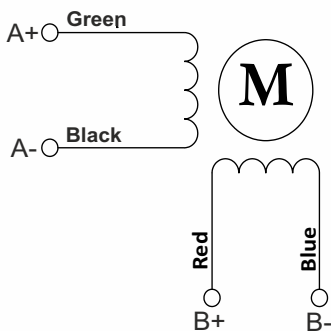
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH86 SH 156 - 6204HS
HIGH TORQUE HYBRID



TECHNICAL DATA

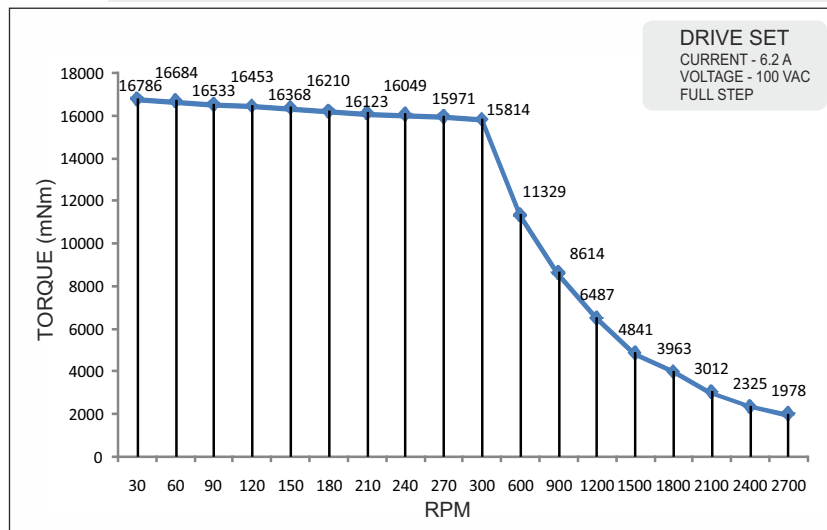


Wiring Diagram

SPECIFICATION		BH 86SH 156 - 6204 HS	
	MODEL	Bipolar	
1	Rated Voltage	V	5.27
2	Current / Phase	A	6.2
3	Resistance / Phase	± 10% Ω	0.85
4	Inductance / Phase	± 20% mH	9.4
5	Holding Torque	Nm	18.0
6	Rotor Inertia	G-CM ²	5500
7	Weight	KG.	5.5
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

CHARACTERISTICS

Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
Insulation Class - H
Ambient Temperature -
Temperature Rise - 80°C Max (Rated Current Phase 2 ON) -20°C + 50°C
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



DRIVE SET
CURRENT - 6.2 A
VOLTAGE - 100 VAC
FULL STEP

STEPPER MOTOR - BH86SH156- 6204 HS



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SIZE NEMA 23,24 & 34 (57,60 & 86 MM)

2 - phase Stepping Motor

1.8° High Torque Hybrid Stepper Motor

BRAKE MOTORS

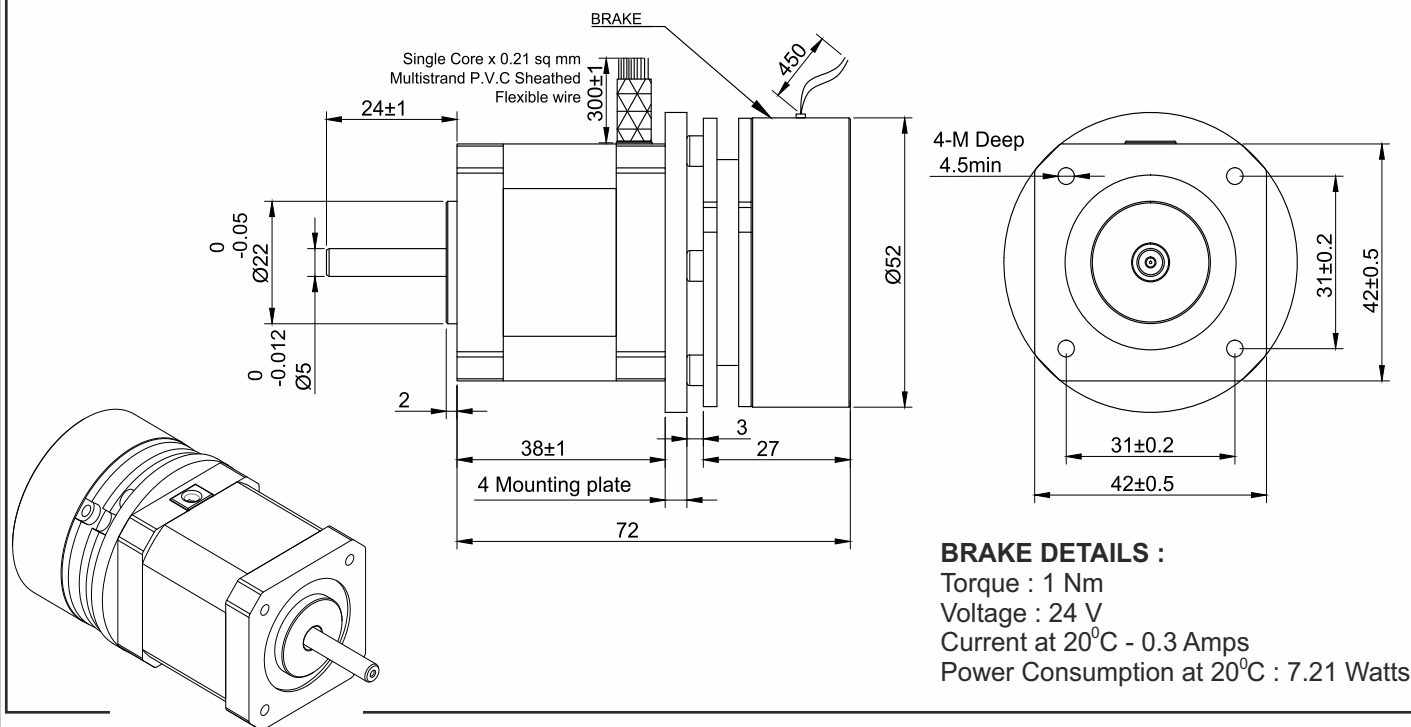
Stepper Motor



SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 42 SH 38 - 1684 BRK
HIGH TORQUE HYBRID

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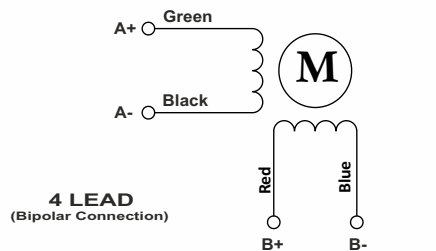


TECHNICAL DATA

CHARACTERISTICS

Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
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

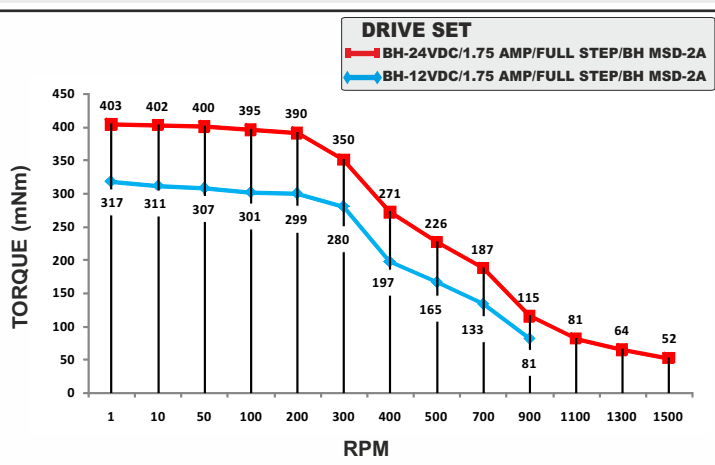
Wiring Diagram



SPECIFICATION

BH 42 SH 38 - 1684 BRK

MODEL		Bipolar
1	Rated Voltage	V 3.53
2	Current / Phase	A 1.68
3	Resistance / Phase	± 10% Ω 2.1
4	Inductance / Phase	± 20% mH 1.80
5	Holding Torque	Nm 0.36
6	Rotor Inertia	G-CM ² 54
7	Weight	KG. 0.570
8	No of Lead	N ^o 4
9	Operating Voltage	VDC 12 - 24



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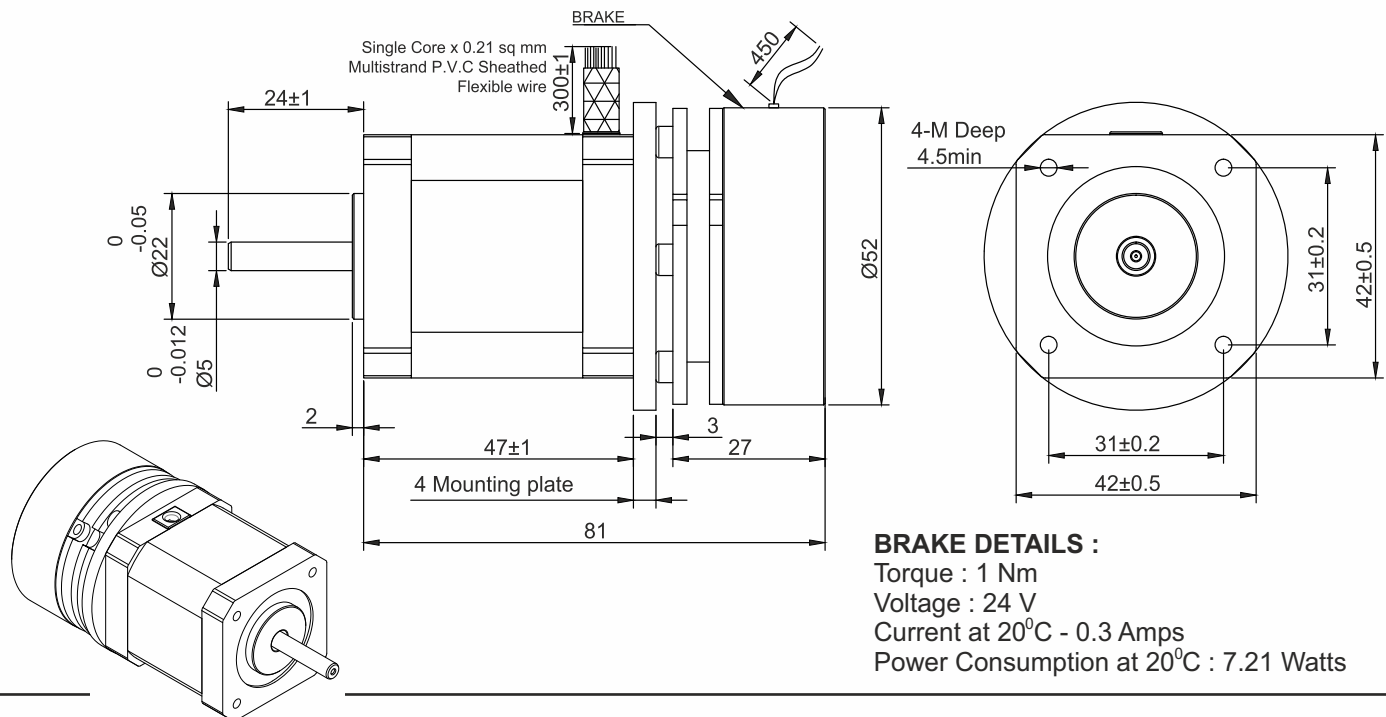
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH42 SH 47 - 1704 BRK
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

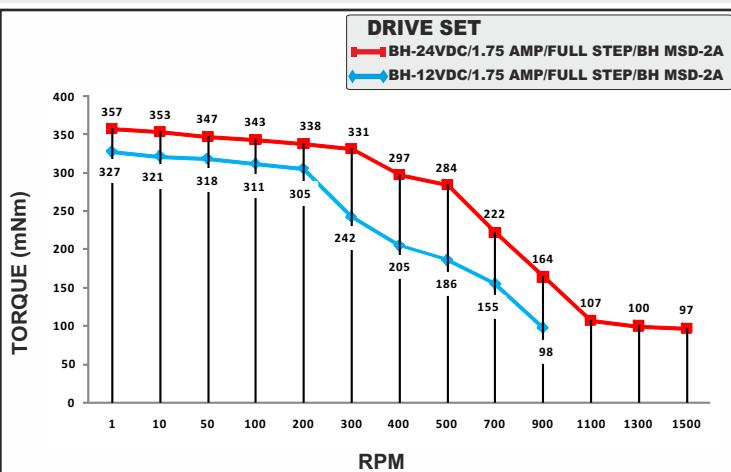
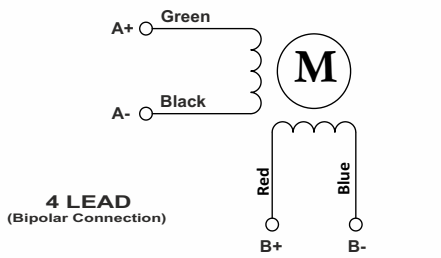
Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
Insulation Class - H
Ambient Temperature - (- 20°C to + 50°C)
Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
Insulation Resistance 100 M Ohms Min.500 VDC
Dielectric Strength 500 VAC For One Minute
Shaft Radial Play 0.02 Max. Play (450 G 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- 1704 BRK

MODEL	BH 42 SH 47- 1704 BRK		
1	Rated Voltage	V	2.8
2	Current / Phase	A	1.7
3	Resistance / Phase	± 10% Ω	1.7
4	Inductance / Phase	± 20% mH	2.5
5	Holding Torque	Nm	0.44
6	Rotor Inertia	G-CM ²	68
7	Weight	KG.	0.670
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	12 - 24

Wiring Diagram

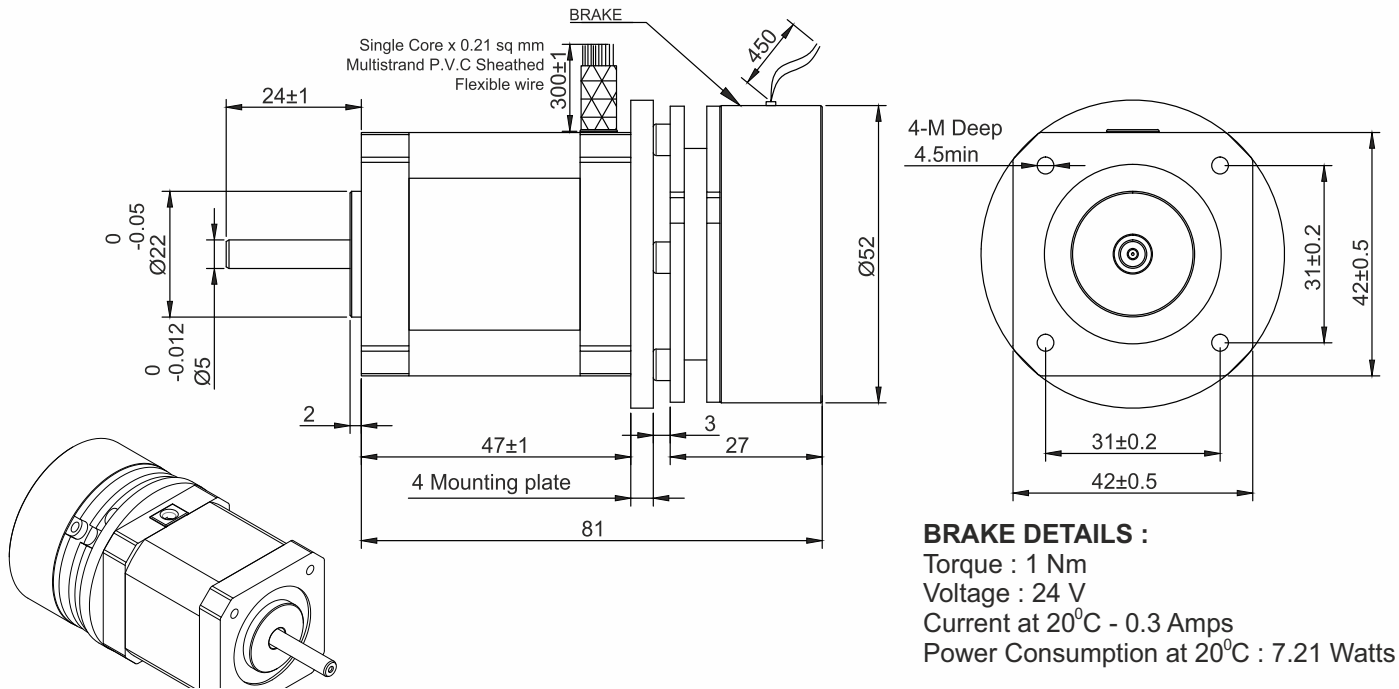


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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH42 SH 47 - 1504 BRK
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

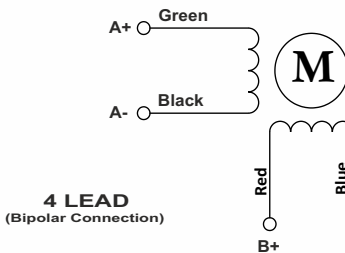
- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. 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

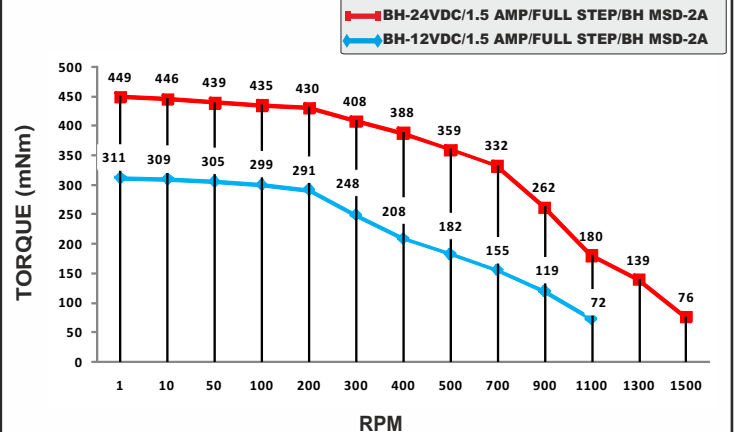
BH 42 SH 47- 1504 BRK

	MODEL		Bipolar
1	Rated Voltage	V	4.2
2	Current / Phase	A	1.5
3	Resistance / Phase	± 10% Ω	2.8
4	Inductance / Phase	± 20% mH	5.7
5	Holding Torque	Nm	0.55
6	Rotor Inertia	G-CM ²	68
7	Weight	KG.	0.670
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	12 - 24

Wiring Diagram



DRIVE SET



Bholanath Precision Engineering Pvt.Ltd.

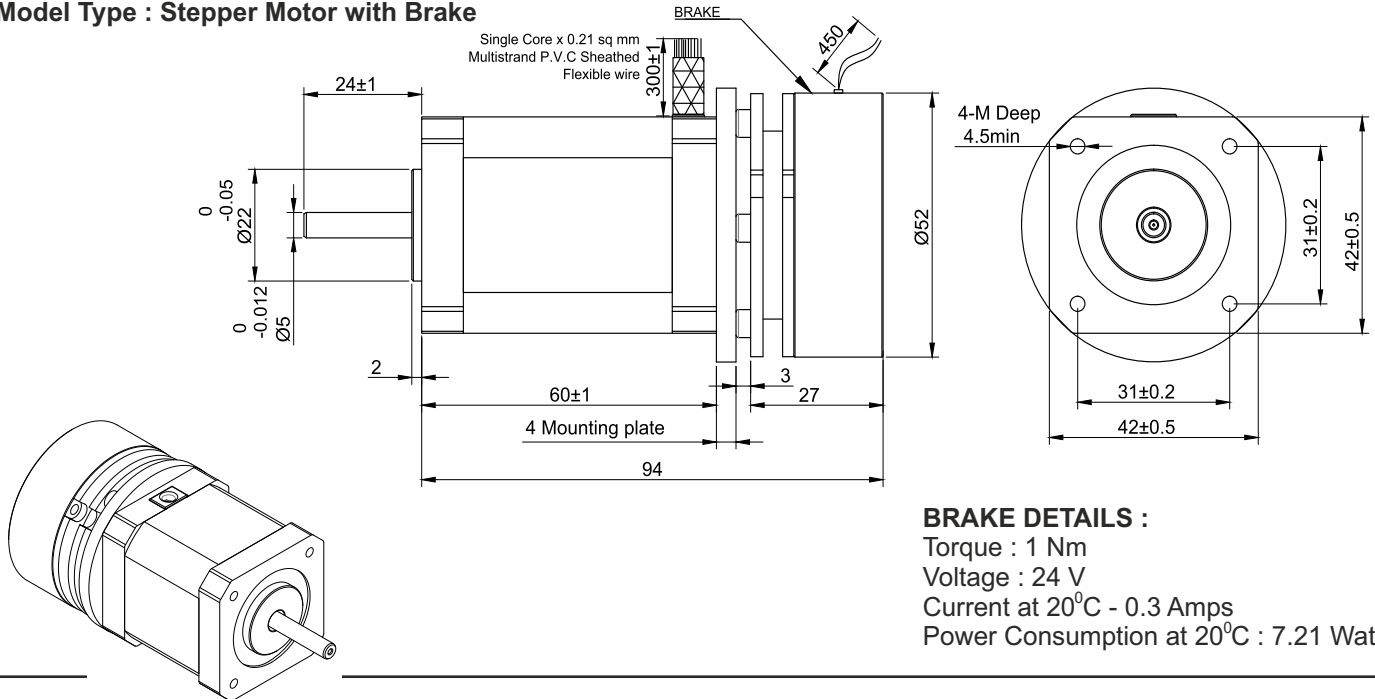
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH42 SH 60 - 0854 BRK
HIGH TORQUE HYBRID



Model Type : Stepper Motor with Brake



BRAKE DETAILS :
Torque : 1 Nm
Voltage : 24 V
Current at 20°C - 0.3 Amps
Power Consumption at 20°C : 7.21 Watts

TECHNICAL DATA

CHARACTERISTICS

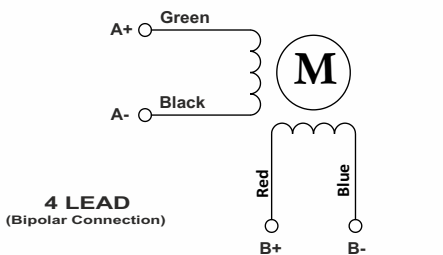
- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
- Insulation Resistance 100 M Ohms Min.500 VDC
- Dielectric Strength 500 VAC For One Minute
- Shaft Radial Play 0.02 Max. 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

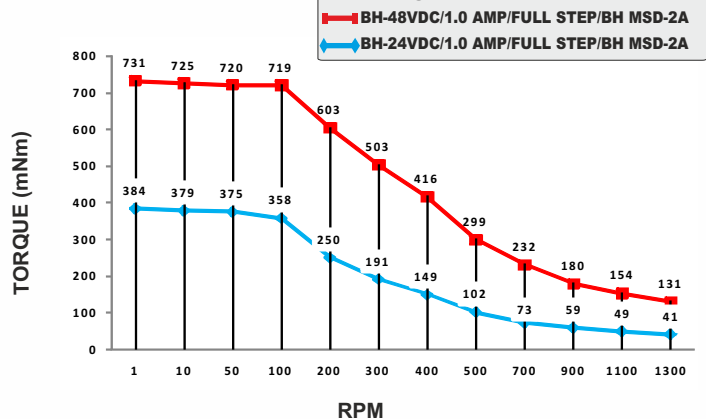
BH 42 SH 60- 0854 BRK

MODEL		Bipolar
1	Rated Voltage	V 10.2
2	Current / Phase	A 0.85
3	Resistance / Phase	± 10% Ω 12
4	Inductance / Phase	± 20% mH 18
5	Holding Torque	Nm 0.9
6	Rotor Inertia	G-CM ² 102
7	Weight	KG. 0.787
8	No of Lead	N° 4
9	Operating Voltage	VDC 24 - 50

Wiring Diagram



DRIVE SET



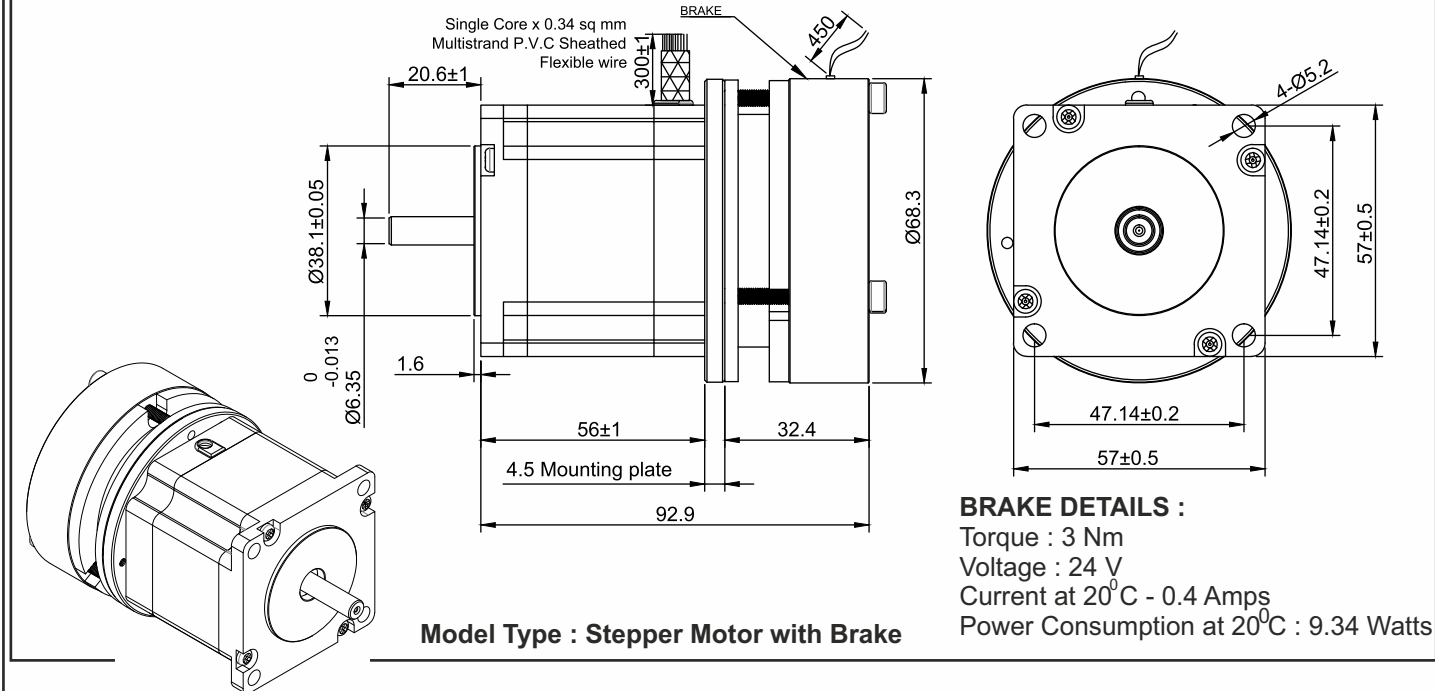
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**SPECIFICATION
SHEET**
Bholanath

STEPPER MOTOR
BH 57 SH 56 - 2804 BRK
HIGH TORQUE HYBRID

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TECHNICAL DATA

CHARACTERISTICS

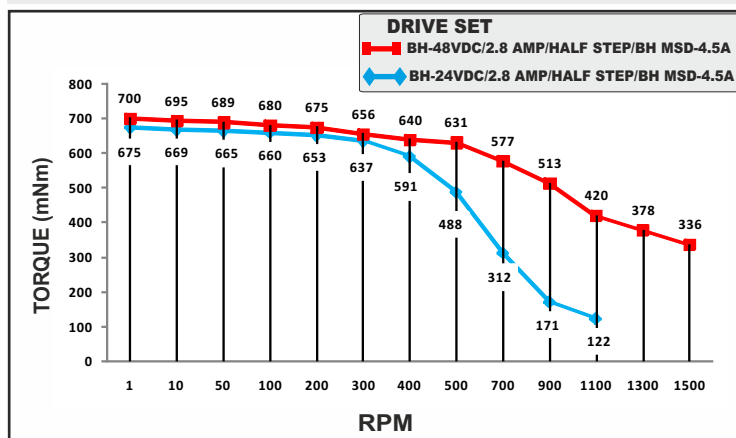
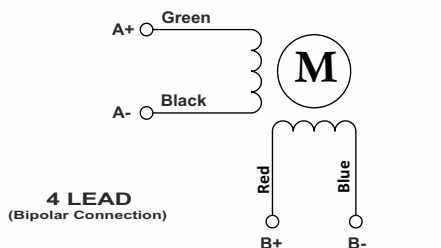
Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
Insulation Class - H
Ambient Temperature - (- 20°C to + 50°C)
Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
Insulation Resistance 100 M Ohms Min.500 VDC
Dielectric Strength 500 VAC For One Minute
Shaft Radial Play 0.02 Max. Play (450 G 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- 2804 BRK

	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.	1.32
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram



Revision-02, Dated:- 12/04/2017

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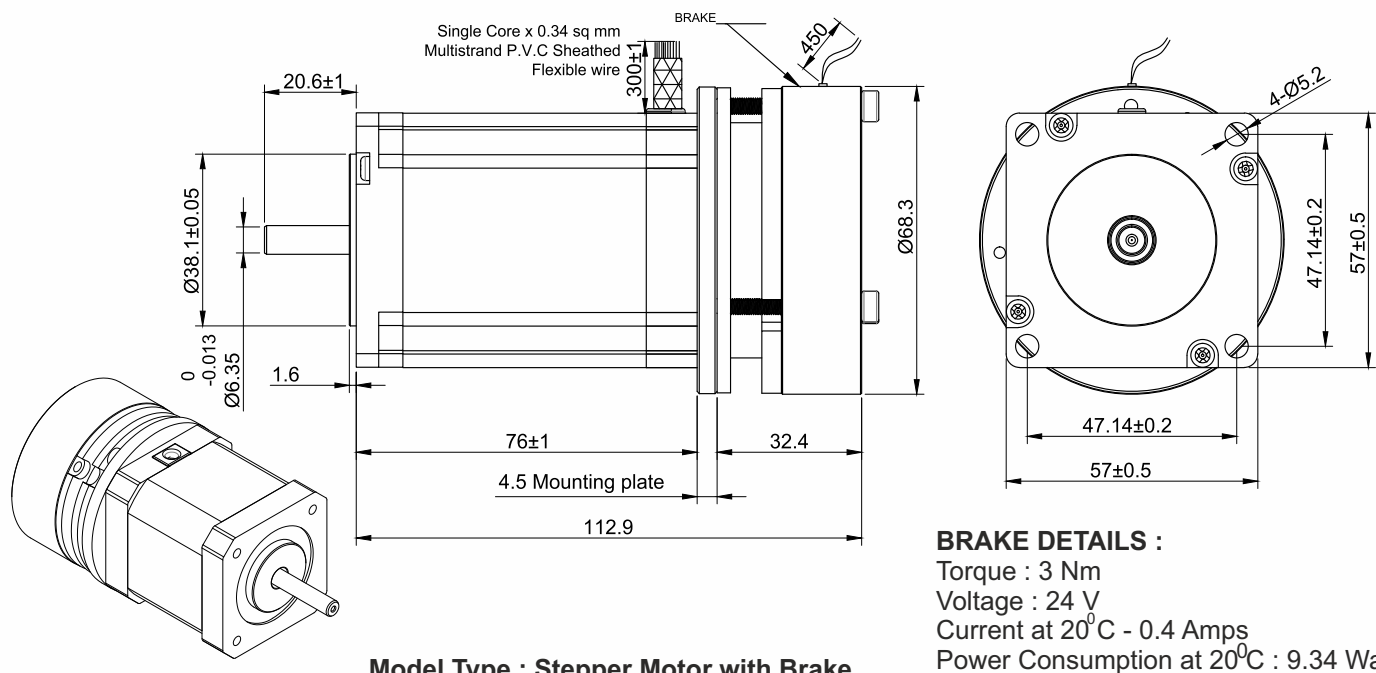
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SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 57 SH 76 - 2804 BRK
HIGH TORQUE HYBRID

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TECHNICAL DATA

CHARACTERISTICS

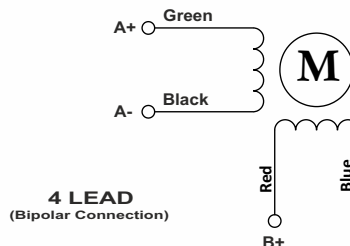
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Step Angle Accuracy - ± 3 Arc Minute
Insulation Class - H
Ambient Temperature - (- 20°C to + 50°C)
Temperature Rise - 80°C Max. (Rated Current Phase 2 ON)
Insulation Resistance 100 M Ohms Min.500 VDC
Dielectric Strength 500 VAC For One Minute
Shaft 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 76- 2804 BRK

MODEL		Bipolar
1	Rated Voltage	V 3.36
2	Current / Phase	A 2.8
3	Resistance / Phase	± 10% Ω 1.2
4	Inductance / Phase	± 20% mH 4.5
5	Holding Torque	Nm 1.89
6	Rotor Inertia	G-CM ² 480
7	Weight	KG. 1.6
8	No of Lead	N° 4
9	Operating Voltage	VDC 24 - 48

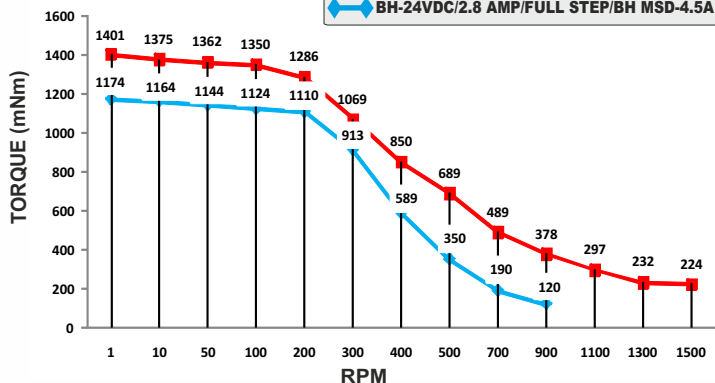
Wiring Diagram



DRIVE SET

■ BH-48VDC/2.8 AMP/FULL STEP/BH MSD-4.5A

◆ BH-24VDC/2.8 AMP/FULL STEP/BH MSD-4.5A



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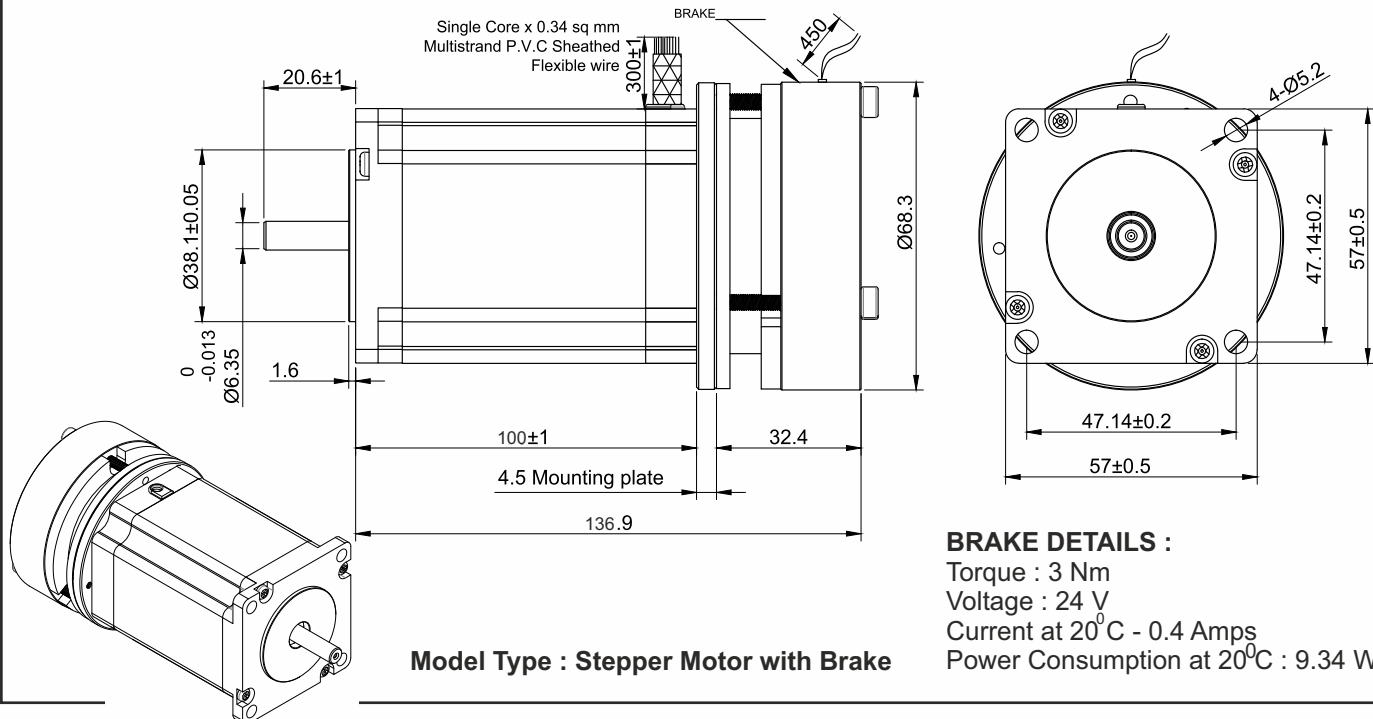
11,Kembros Ind.Estate , Sonapur Lane , Bhandup (W),Mumbai - 400078.

Telefax/Phone : 25662856/25664338/67993260 Email : support@bholanath.in

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

SPECIFICATION SHEET
Bholanath

STEPPER MOTOR
BH 57 SH 100 - 3004 BRK
HIGH TORQUE HYBRID



TECHNICAL DATA

CHARACTERISTICS

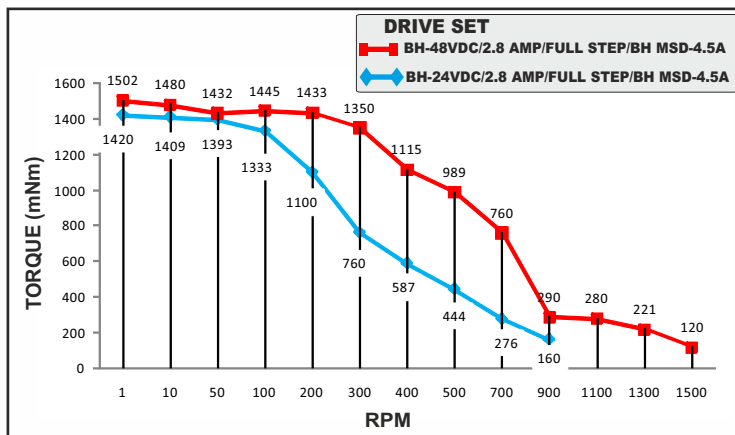
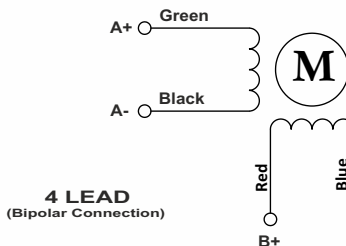
- Step Angle - 1.8°
- Step Angle Accuracy - ± 3 Arc Minute
- Insulation Class - H
- Ambient Temperature - (- 20°C to + 50°C)
- Temperature Rise - 80°C Max.
(Rated Current Phase 2 ON)
- Insulation Resistance
100 M Ohms Min.500 VDC
- Dielectric Strength
500 VAC For One Minute
- Shaft Radial Play
0.02 Max. 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 100- 3004 BRK

	MODEL		Bipolar
1	Rated Voltage	V	4.65
2	Current / Phase	A	3
3	Resistance / Phase	± 10% Ω	1.55
4	Inductance / Phase	± 20% mH	6.75
5	Holding Torque	Nm	2.5
6	Rotor Inertia	G-CM ²	600
7	Weight	KG.	2.1
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	24 - 48

Wiring Diagram



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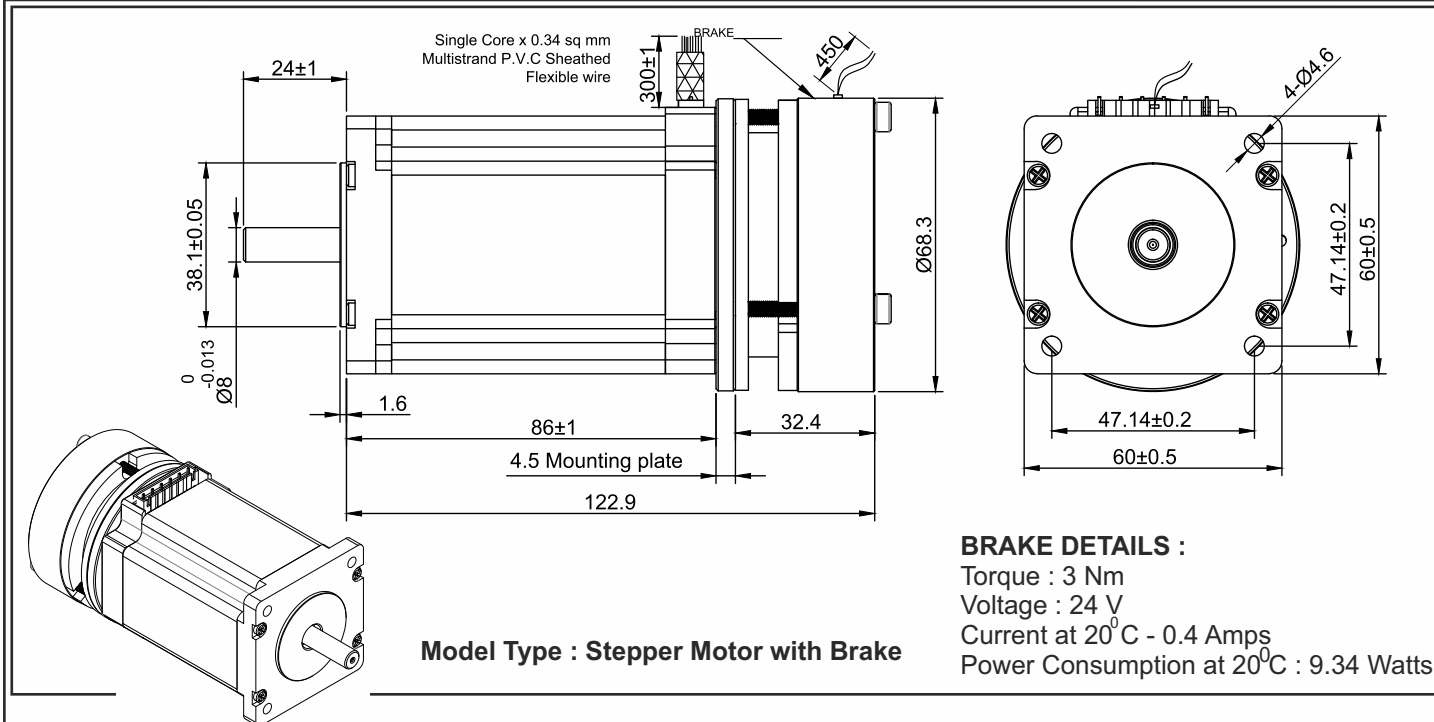
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**SPECIFICATION
SHEET**
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STEPPER MOTOR
BH60 SH 86 - 2804 BRK
HIGH TORQUE HYBRID

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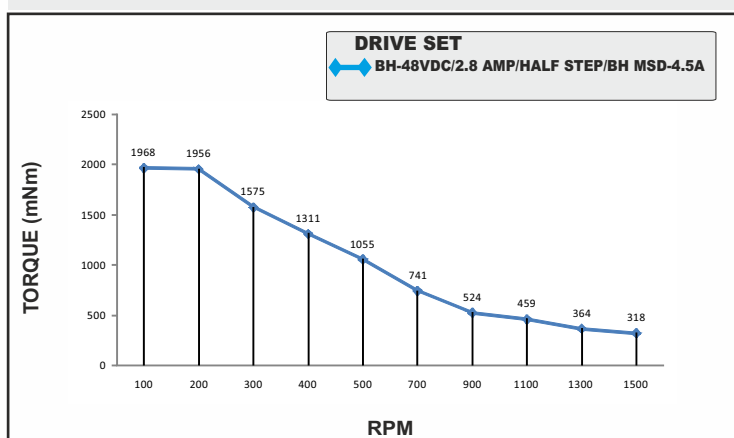
TECHNICAL DATA

CHARACTERISTICS

Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
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 60 SH 86- 2804 BRK

	MODEL		Bipolar
1	Rated Voltage	V	4.76
2	Current / Phase	A	2.8
3	Resistance / Phase	± 10% Ω	1.6
4	Inductance / Phase	± 20% mH	6.5
5	Holding Torque	Nm	3.1
6	Rotor Inertia	G-CM ²	840
7	Weight	KG.	2.05
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	24 - 48



Revision-02, Dated:- 26/04/2017

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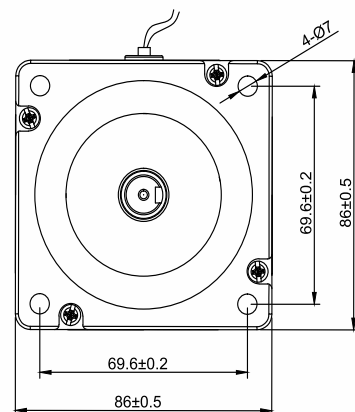
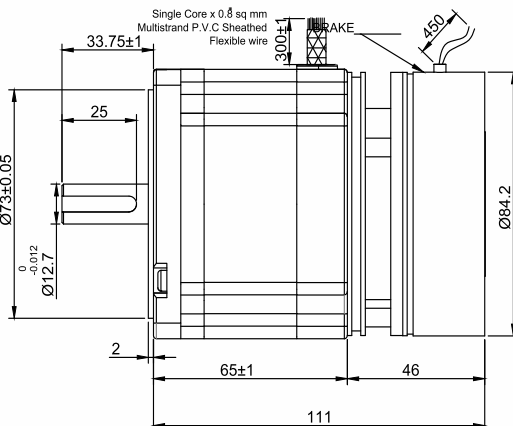
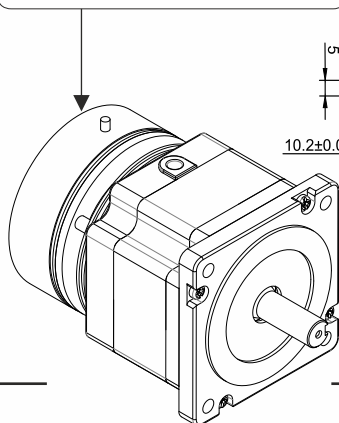
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SPECIFICATION SHEET
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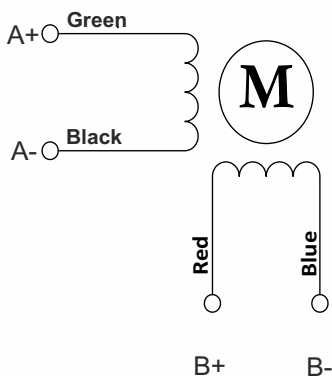
STEPPER MOTOR
BH86 SH 65 - 4004BRK
HIGH TORQUE HYBRID



BRAKE DETAILS :
Torque : 5 Nm
Voltage : 24 V
Current at 20°C - 0.88 Amps
Power Consumption at 20°C : 21.21 Watts



TECHNICAL DATA

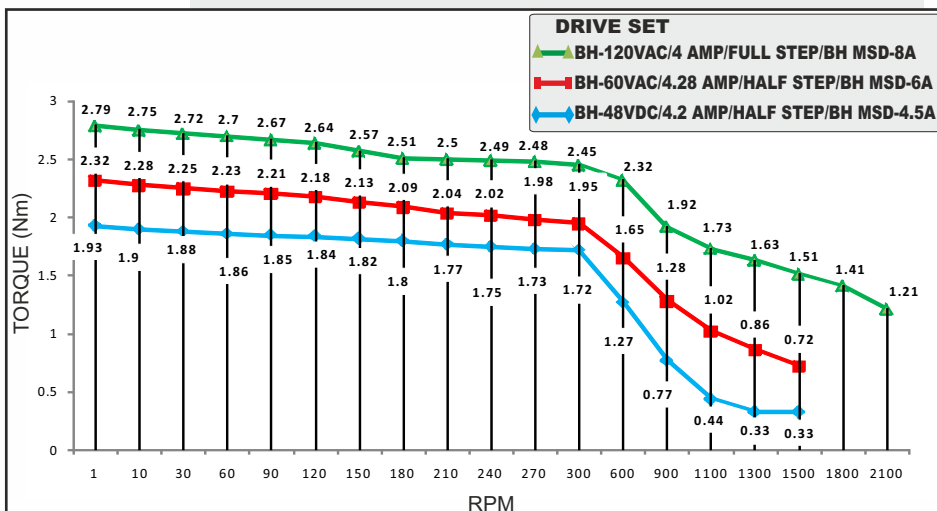


Wiring Diagram

SPECIFICATION		BH86SH65 - 4004 BRK	
	MODEL	Bipolar	
1	Rated Voltage	V	1.88
2	Current / Phase	A	4
3	Resistance / Phase	± 10% Ω	0.47
4	Inductance / Phase	± 20% mH	2.8
5	Holding Torque	Nm	3.4
6	Rotor Inertia	G-CM ²	1000
7	Weight	KG.	3.1
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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



STEPPER MOTOR - BH86SH65-4004BRK



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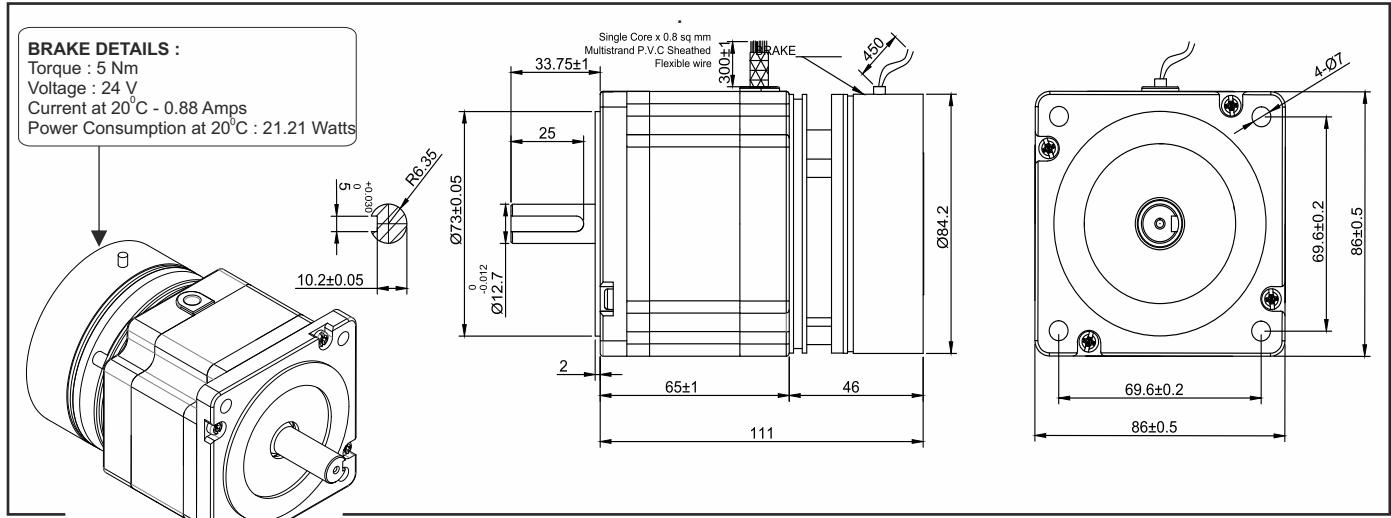
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BHOLANATH COOL STEPPERS™

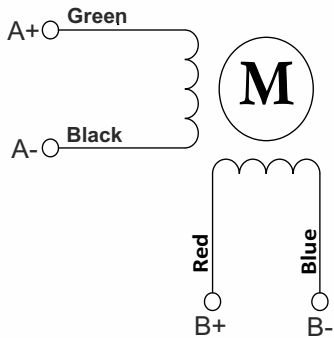
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SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 65 - 6004BRK
HIGH TORQUE HYBRID



TECHNICAL DATA

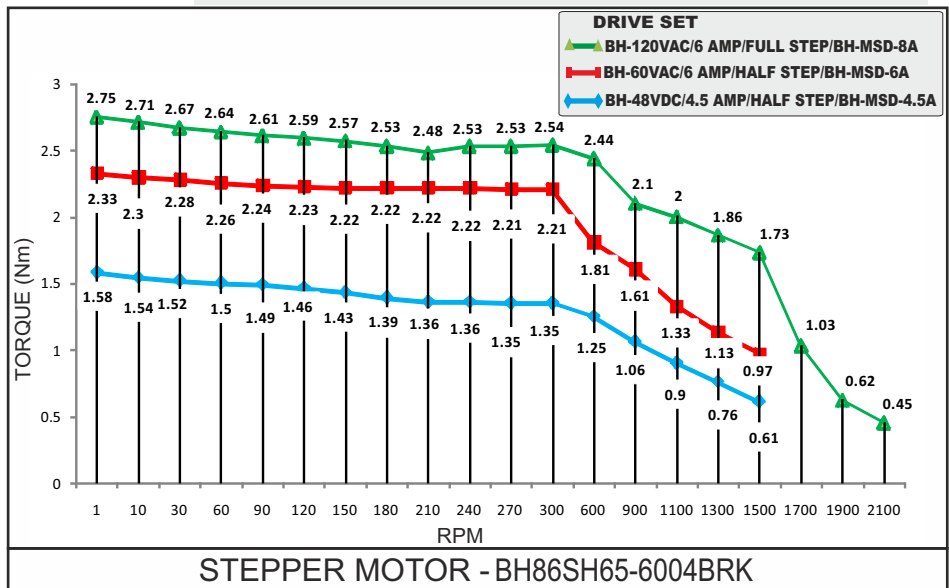


Wiring Diagram

SPECIFICATION		BH86SH65 - 6004 BRK	
MODEL		Bipolar	
1	Rated Voltage	V	1.86
2	Current / Phase	A	6.0
3	Resistance / Phase	± 10% Ω	0.31
4	Inductance / Phase	± 20% mH	1.35
5	Holding Torque	Nm	3.4
6	Rotor Inertia	G-CM ²	1000
7	Weight	KG.	3.1
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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.Axial Force 60 N
- Max.Radial Force 220 N (20MM From Front Flange)



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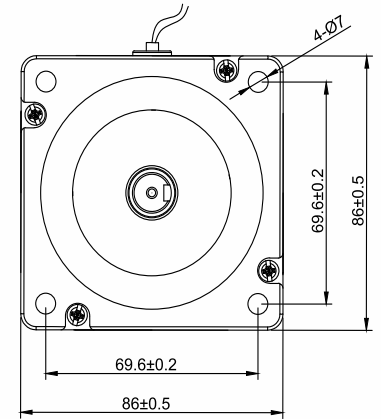
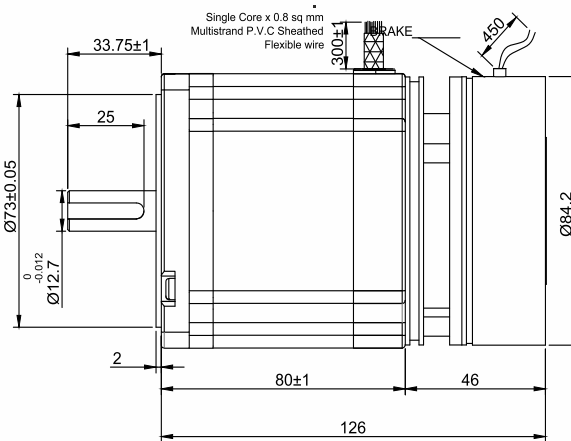
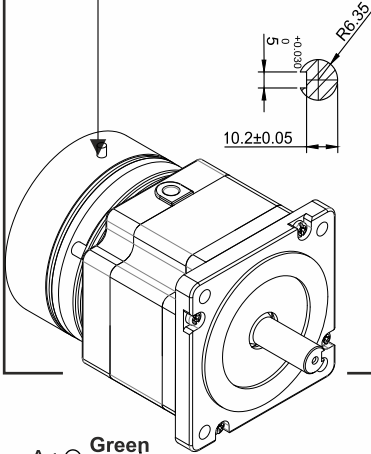
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

SPECIFICATION SHEET
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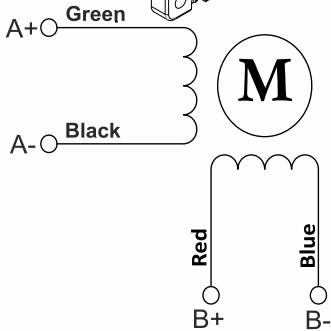
STEPPER MOTOR
BH86 SH 80 - 4004BRK
HIGH TORQUE HYBRID



BRAKE DETAILS :
Torque : 5 Nm
Voltage : 24 V
Current at 20°C - 0.88 Amps
Power Consumption at 20°C : 21.21 Watts



TECHNICAL DATA

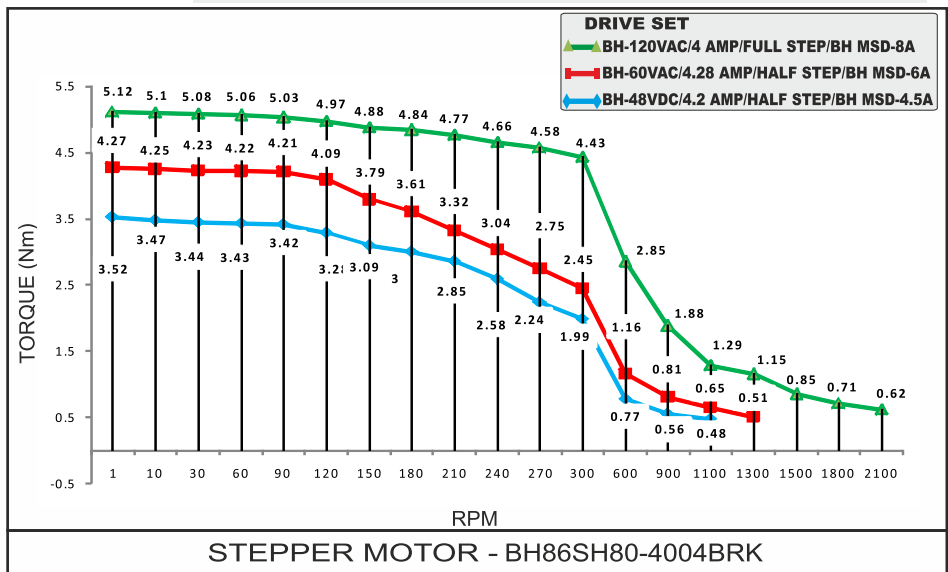


Wiring Diagram

SPECIFICATION		BH86SH80 - 4004 AK	
MODEL		Bipolar	
1	Rated Voltage	V	4
2	Current / Phase	A	4
3	Resistance / Phase	± 10% Ω	1.0
4	Inductance / Phase	± 20% mH	9.7
5	Holding Torque	Nm	4.6
6	Rotor Inertia	G-CM ²	1400
7	Weight	KG.	2.5
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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



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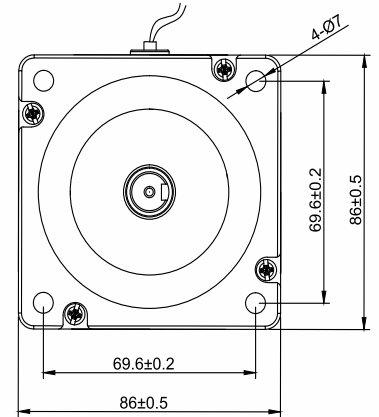
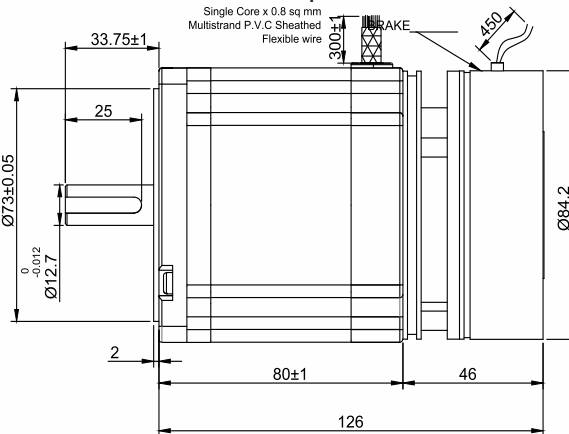
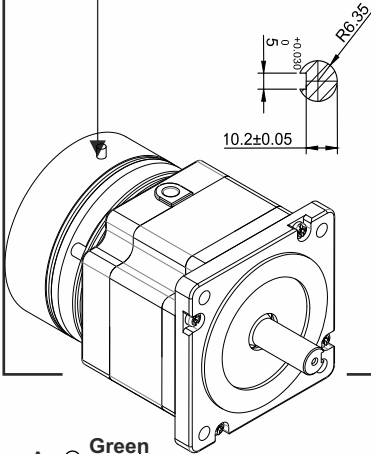
SPECIFICATION SHEET
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STEPPER MOTOR
BH86 SH 80 - 5504BRK
HIGH TORQUE HYBRID

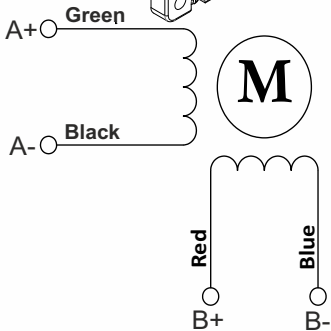


BRAKE DETAILS :

Torque : 5 Nm
Voltage : 24 V
Current at 20°C - 0.88 Amps
Power Consumption at 20°C : 21.21 Watts



TECHNICAL DATA

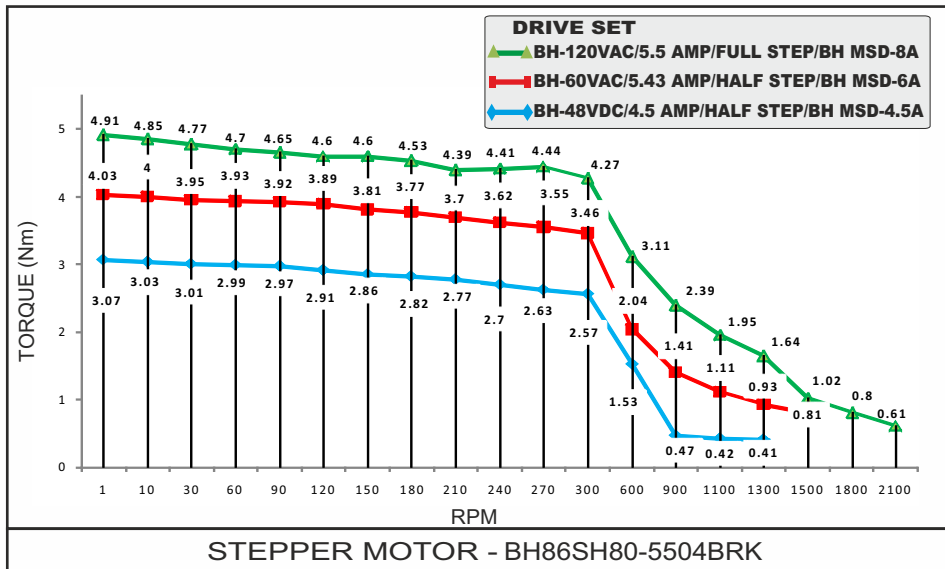


Wiring Diagram

SPECIFICATION		BH86SH80 - 5504 BRK	
MODEL		Bipolar	
1	Rated Voltage	V	2.31
2	Current / Phase	A	5.5
3	Resistance / Phase	± 10% Ω	0.42
4	Inductance / Phase	± 20% mH	2.8
5	Holding Torque	Nm	4.6
6	Rotor Inertia	G-CM ²	1400
7	Weight	KG.	3.95
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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



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SPECIFICATION SHEET

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STEPPER MOTOR

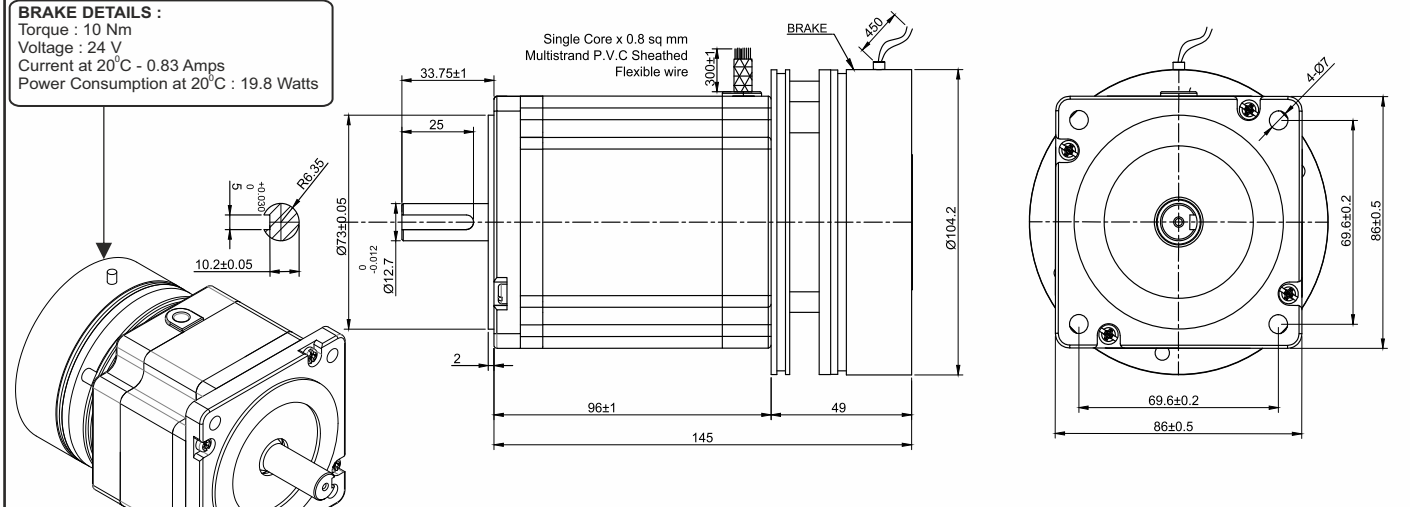
BH86 SH 96 - 4004BRK

HIGH TORQUE HYBRID

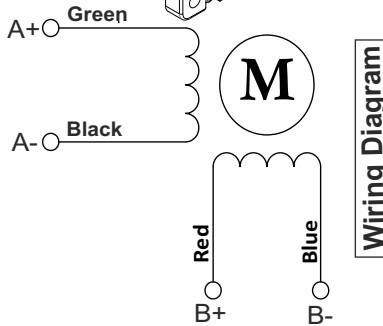
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BRAKE DETAILS :
Torque : 10 Nm
Voltage : 24 V
Current at 20°C - 0.83 Amps
Power Consumption at 20°C : 19.8 Watts



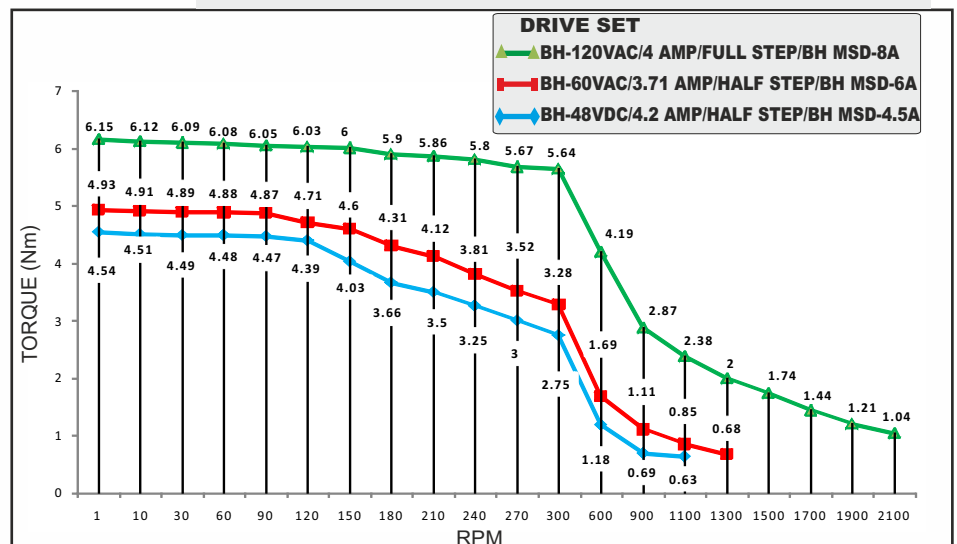
TECHNICAL DATA



SPECIFICATION		BH86SH96 - 4004 BRK	
	MODEL	Bipolar	
1	Rated Voltage	V	3.8
2	Current / Phase	A	4
3	Resistance / Phase	± 10% Ω	0.95
4	Inductance / Phase	± 20% mH	6.8
5	Holding Torque	Nm	6.8
6	Rotor Inertia	G-CM ²	2700
7	Weight	KG.	5.2
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

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



STEPPER MOTOR - BH86SH96-4004BRK

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SPECIFICATION SHEET

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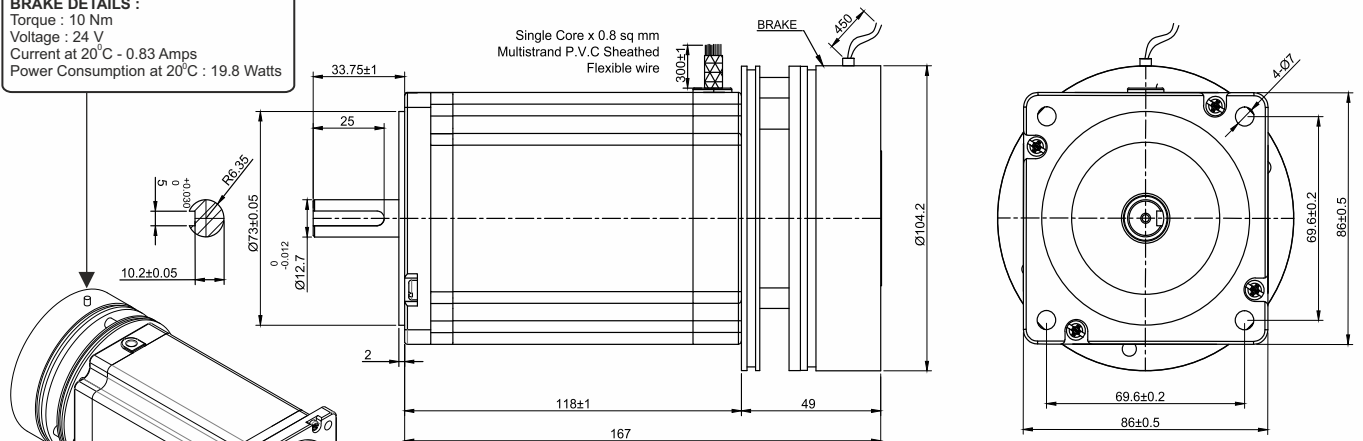
STEPPER MOTOR

BH86 SH 118 - 6004BRK

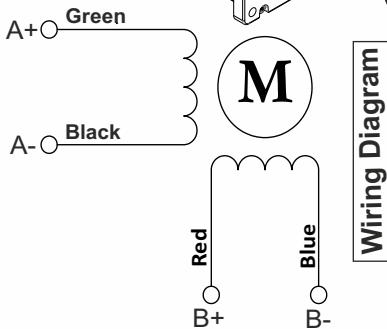
HIGH TORQUE HYBRID



BRAKE DETAILS :
 Torque : 10 Nm
 Voltage : 24 V
 Current at 20°C - 0.83 Amps
 Power Consumption at 20°C : 19.8 Watts



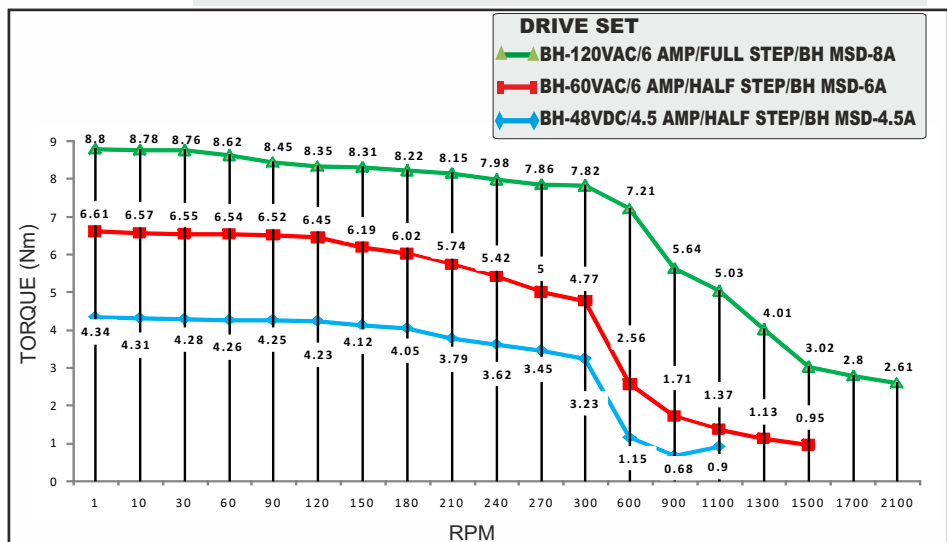
TECHNICAL DATA



SPECIFICATION		BH 86SH 118 - 6004 BRK	
	MODEL		Bipolar
1	Rated Voltage	V	2.52
2	Current / Phase	A	6
3	Resistance / Phase	$\pm 10\% \Omega$	0.42
4	Inductance / Phase	$\pm 20\% \text{mH}$	4.25
5	Holding Torque	Nm	8.70
6	Rotor Inertia	G-CM ²	2700
7	Weight	KG.	5.2
8	No of Lead	N ^o	4
9	Operating Voltage	VDC	48 - 170
10	Operating Voltage	VAC	34 - 120

CHARACTERISTICS

Step Angle - 1.8°
Step Angle Accuracy - ± 3 Arc Minute
Insulation Class - H
Ambient Temperature -
Temperature Rise - 80°C Max (Rated Current Phase 2 ON) -20°C + 50°C
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



STEPPER MOTOR - BH86SH118- 6004 BRK



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SPECIFICATION SHEET

Bholanath

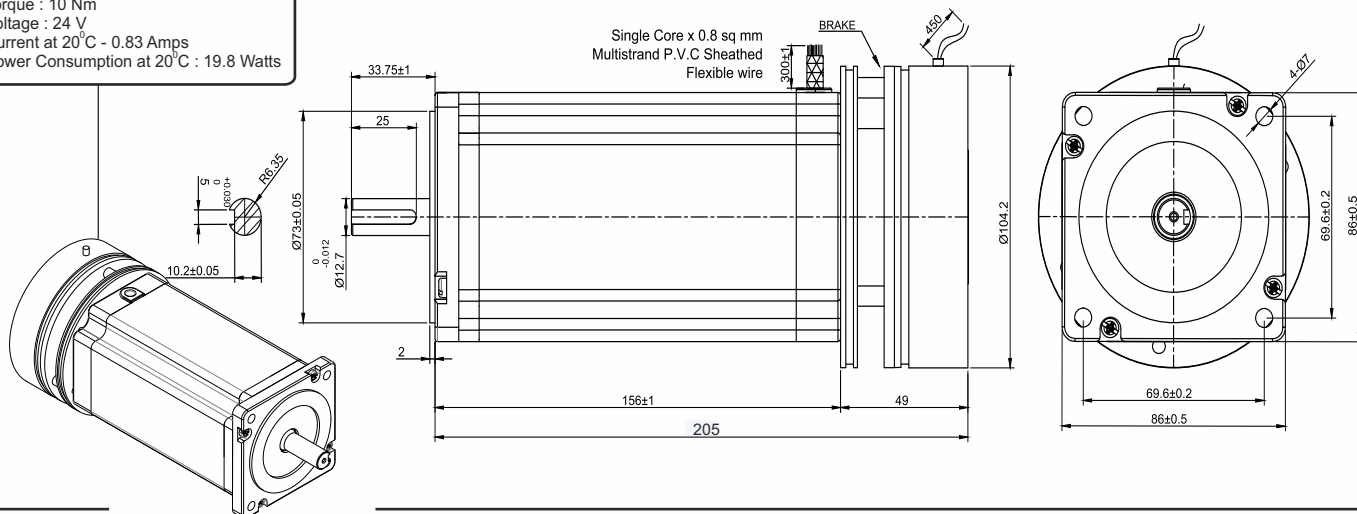
STEPPER MOTOR

BH86 SH 156 - 6004BRK

HIGH TORQUE HYBRID

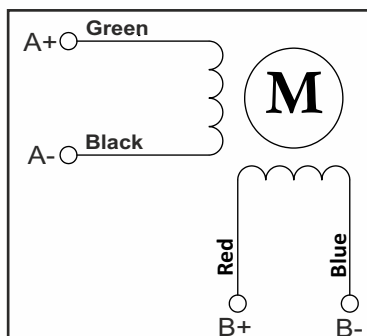


BRAKE DETAILS :
 Torque : 10 Nm
 Voltage : 24 V
 Current at 20°C - 0.83 Amps
 Power Consumption at 20°C : 19.8 Watts



TECHNICAL DATA

Wiring Diagram



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

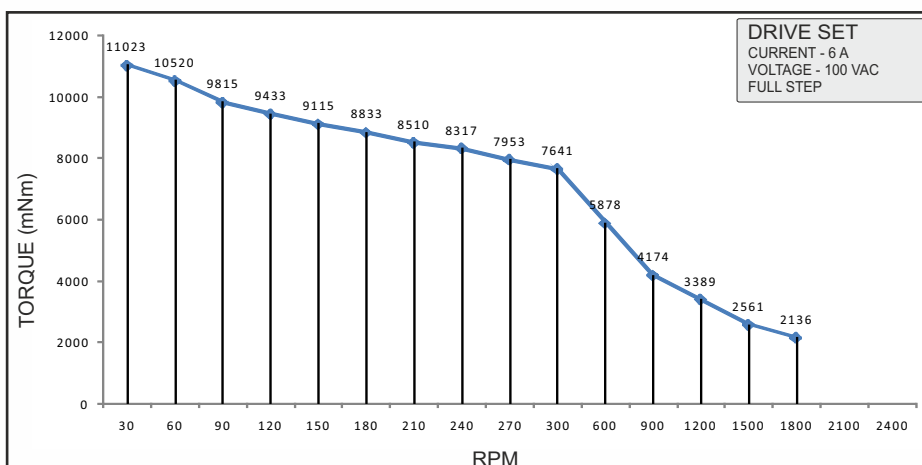
Shaft Radial Play
0.02 Max. Play (450 G Load)

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

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

Max.Axial Force
60 N

SPECIFICATION		BH 86SH 156 - 6004 BRK	
	MODEL	Bipolar	
1	Rated Voltage	V	4.8
2	Current / Phase	A	6
3	Resistance / Phase	± 10% Ω	0.8
4	Inductance / Phase	± 20% mH	7.02
5	Holding Torque	Nm	12.8
6	Rotor Inertia	G-CM ²	4000
7	Weight	KG.	5.5
8	No of Lead	N ⁰	4
9	Operating Voltage	VDC	48 - 170
9	Operating Voltage	VAC	34 - 120



STEPPER MOTOR - BH86SH156-6004BRK



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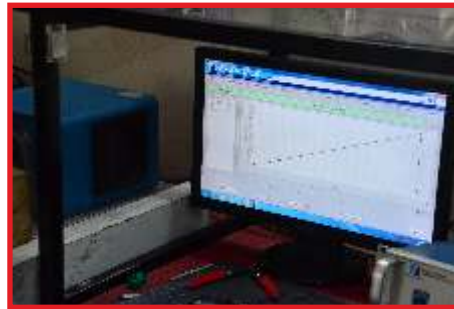
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Mobile No : 9920903825/9821671733/9930514603/9819515543/9323166582.

MANUFACTURING FACILITY



Office Address

Bholanath Precision Engineering Pvt.Ltd.

11,Kembros Industrial Estate,Near Asian Paint Company,
Sonapur Lane,Bhandup (West),Mumbai - 400078,India.

FACTORY ADDRESS

Plot No - 1, Gut No - 203 , Dahagaon , Vasind (West) , Wada Link Road ,
Off Mumbai Nashik Road ,
Opposite Jindal Steel Factory ,
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Maharashtra State , India.

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