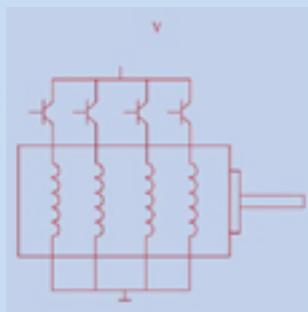


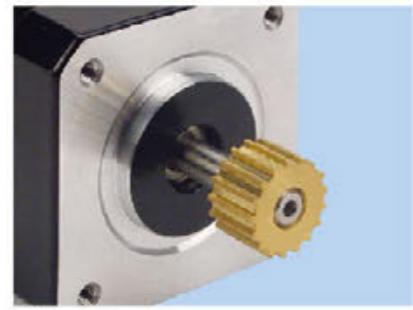
STEPPING MOTORS



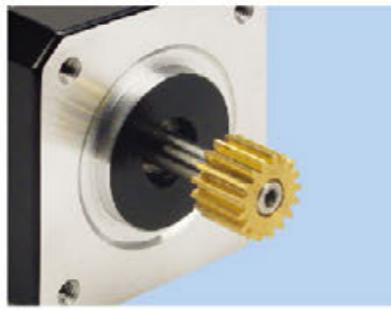
- Digital controlled positioning and speed control operating without position feedback
- Diameter of 20 - 86 mm
- up to IP 68 protection
- Stepping angles of 0,9 - 1,8° / 120°
- High torque and high step angle accuracy
- Spindle stepping motors from 0,003 - 0,04 mm / step
- Digital controller for stepping and spindle stepping motors
- System integration with application engineers
- more than 40 years market experience
- ISO 9001:2008 certified since 1998



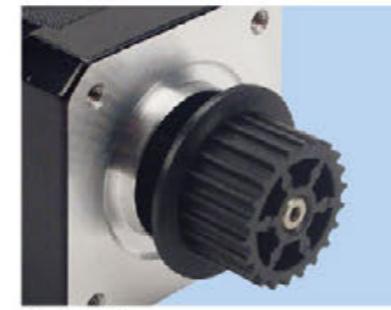
MEYER INDUSTRIE-ELECTRONIC GmbH – MEYLE
Carl-Bosch-Str. 8 · 49525 Lengerich/Germany
Phone +49 (0) 54 81-93 85-0 · Fax +49 (0) 54 81-93 85-12
www.meyle.de · E-Mail: sales@meyle.de



Pulley



Gear



Plastic Pulley



Single Flat



Double Flat



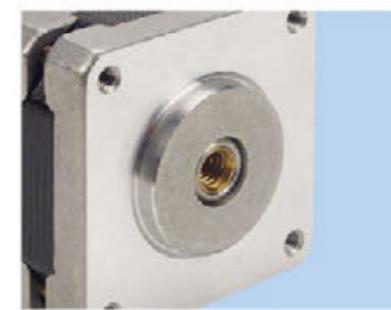
Key Way



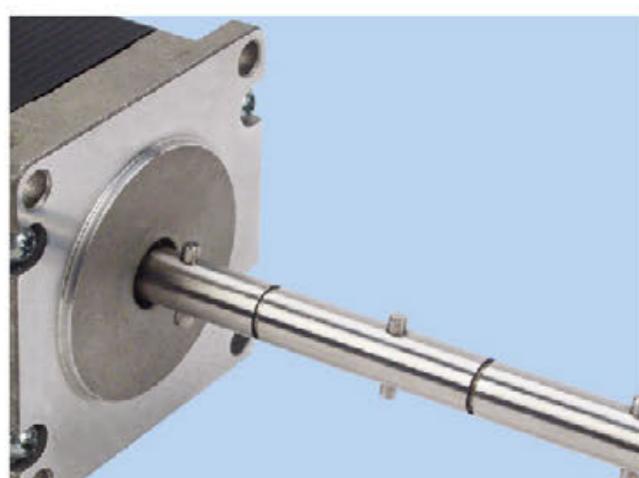
Knurl



Hobbed Gear



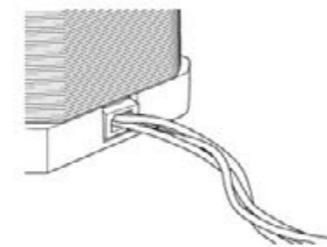
Hollow Shaft



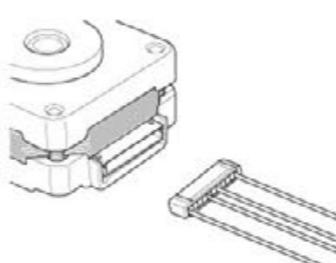
Dowel



Worm Shaft



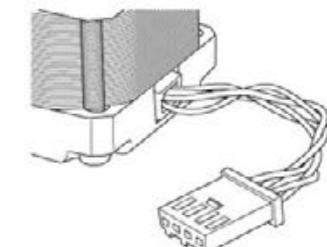
Lead Wire



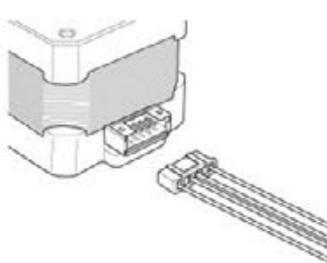
Connector with harness

Motor side: JST S11B-ER (LF)(SN)

Mate with: JST ZHR-11



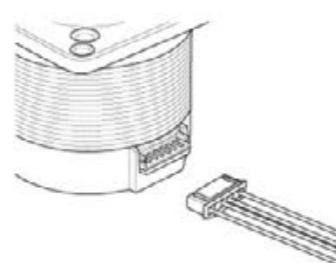
Lead Wire with Connector



Connector with harness

Motor side: JST S6B-PH-K (LF)(SN)

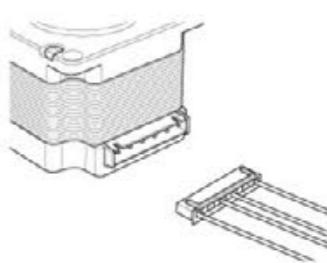
Mate with: JST PHR-6



Connector with harness

Motor side: JST S11B-ER (LF)(SN)

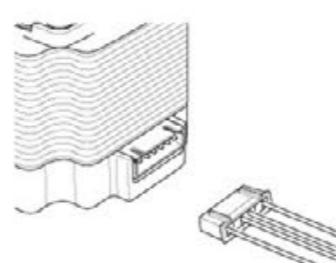
Mate with: JST ZHR-11



Connector with harness

Motor side: JST S6B-PH-K (LF)(SN)

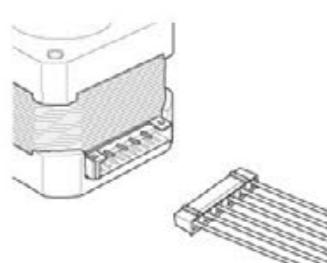
Mate with: JST PHR-6



Connector with harness

Motor side: JST S6B-EH (LF)(SN)

Mate with: JST PHR-6



Connector with harness

Motor side: JST S11B-XH-A-1 (LF)(SN)

Mate with: JST XHP-11

Note:

The styles above are in normal way.

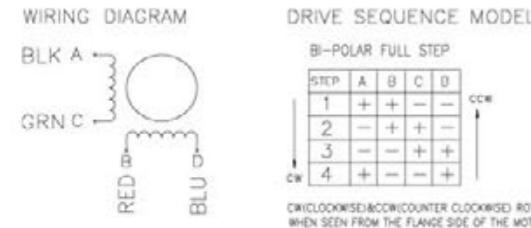
Other special shafts can be customized.

Note:

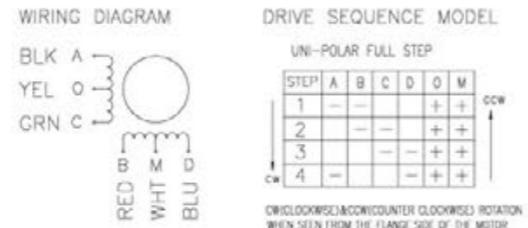
The styles above are in normal way.

Other special connectors can be customized.

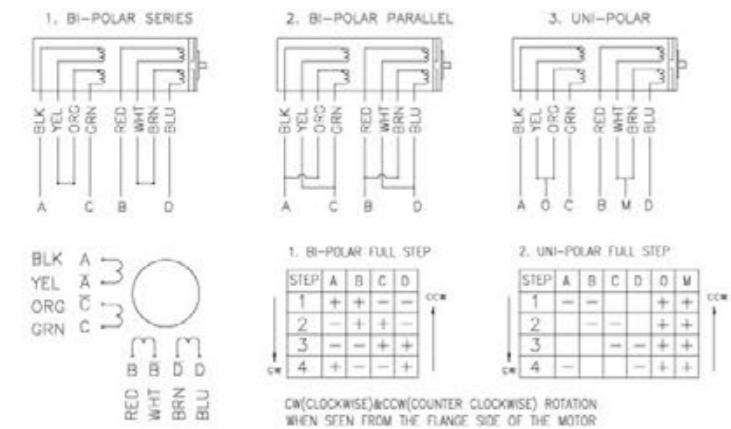
Bipolar - 4 Lead Wire



Unipolar - 6 Lead Wire

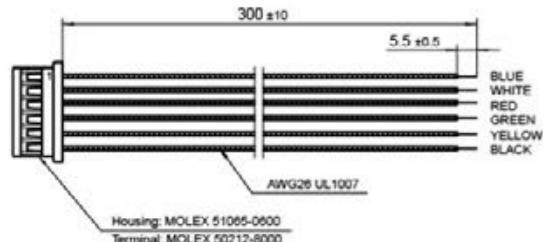


8 Lead Wire Series

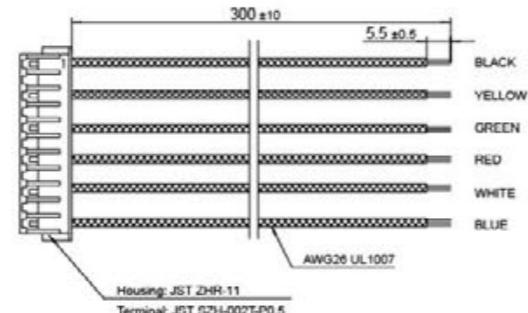


Accessory Harness Model

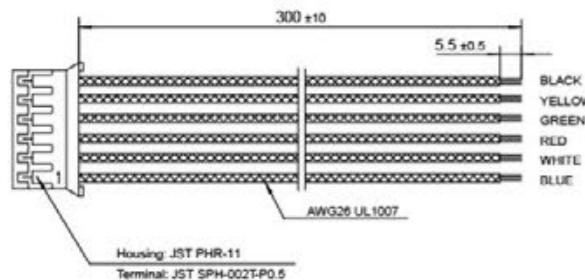
HB-28S series



HB-35S series



HB-42S series



Note:

The styles above are in normal way.
Other special harnesses can be customized.

HB - 20 S 0001 - 01

1 2 3 4 5 6 7

1. Size: Motor outside diameter in tenths of an inch (Motor Dimensions)
2. Type of Stepping Motor: "H" means Hybrid Stepping Motor
3. Type of Step Angle:
 - S: Step angle 1.8°, stator with 8 polar
 - C: Step angle 0.9°, stator with 8 polar
 - T: Step angle 1.2°
 - Y: Step angle 0.6°
 - F: Step angle 0.72°
4. Length of stator core
5. Type of lead wires:
 - "0" indicates connector only
 - "4, 5, 6, 8" indicates number of lead wires
6. Electric variation: variety of current, torque, etc.
7. Mechanical variation: variety of shaft, lead wires, screws, etc.

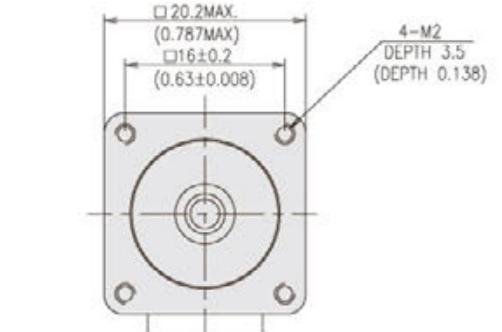
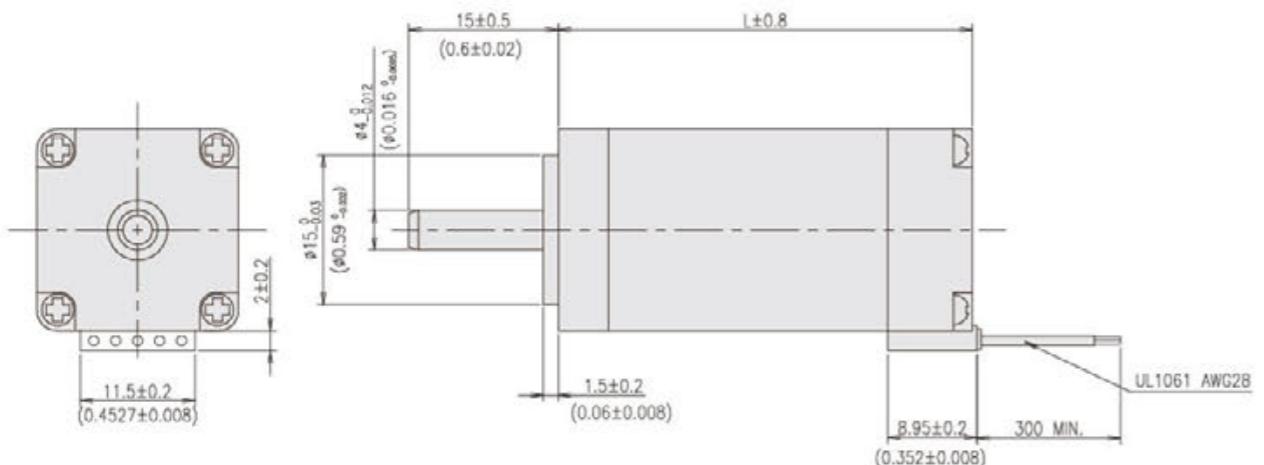
HB-20S

RoHS
COMPLIANT
2002/95/EC

 20mm | 1.8° | Bipolar

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-20S2001	1.8°	2.8	0.60	6.6	1.8	1.19	2	4	100	30
HB-20S4001	1.8°	6.0	0.50	12.0	3.3	38	3.6	4	150	42
HB-20S4002	1.8°	4.3	0.80	5.3	1.4	39	3.6	4	150	42

Dimensions


mm(inch)

HB-28S
RoHS
COMPLIANT
2002/95/EC

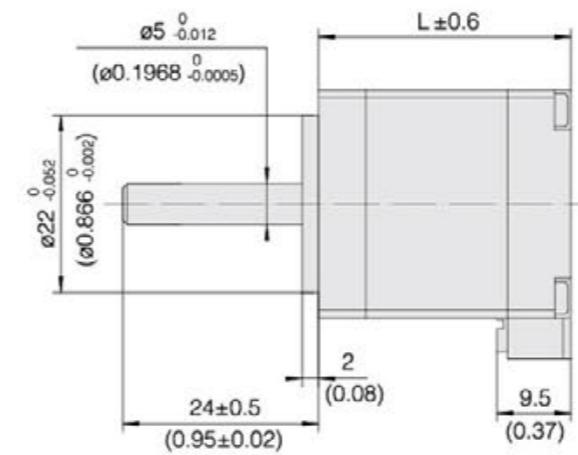
 28mm | 1.8° | Unipolar | Bipolar

Unipolar

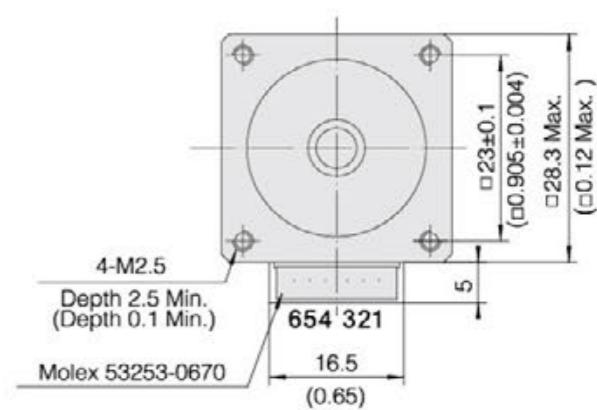
Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-28S2601	1.8°	1.9	1.00	1.9	0.9	35	9	6	100	31
HB-28S2602	1.8°	4.8	0.45	10.7	4.7	37	9	6	100	31
HB-28S4601	1.8°	3.4	1.00	3.4	1.6	68	12	6	150	40
HB-28S4602	1.8°	6.6	0.50	13.2	5.7	64	12	6	150	40
HB-28S6601	1.8°	4.6	1.00	4.6	2.3	90	18	6	200	51
HB-28S6602	1.8°	7.4	0.65	11.4	6.3	97	18	6	200	51

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-28S2401	1.8°	2.8	1.50	0.9	0.9	35	9	4	100	31
HB-28S2402	1.8°	6.9	0.65	5.3	4.7	35	9	4	100	31
HB-28S4401	1.8°	4.8	0.40	1.7	1.6	96	12	4	150	40
HB-28S4402	1.8°	9.3	0.70	6.6	5.7	90	12	4	150	40
HB-28S6401	1.8°	6.4	1.40	2.3	2.3	133	18	4	200	51
HB-28S6402	1.8°	10.2	0.90	5.7	6.3	141	18	4	200	51

Dimensions


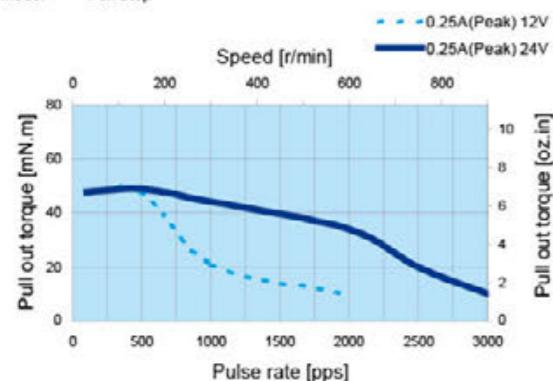
mm(inch)



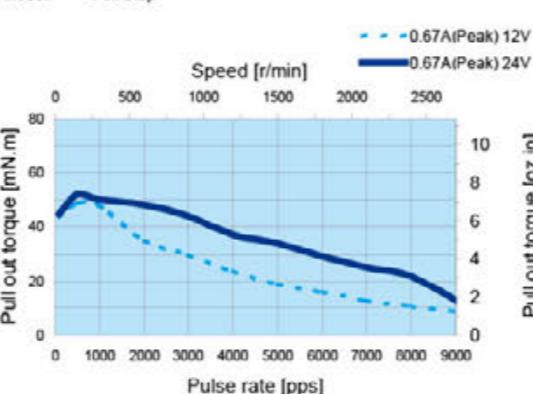
Molex 53253-0670

HB-28S2402

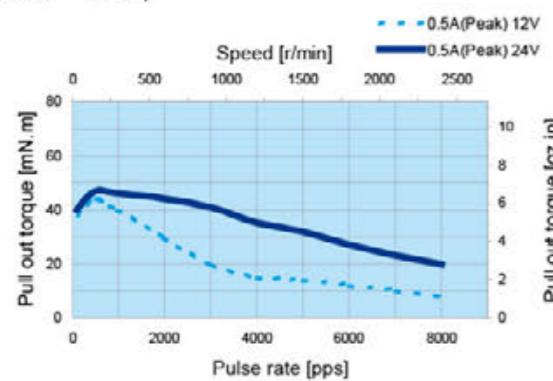
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-28S2403**

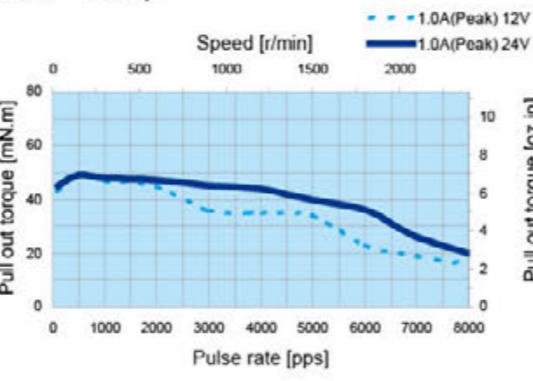
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-28S4602**

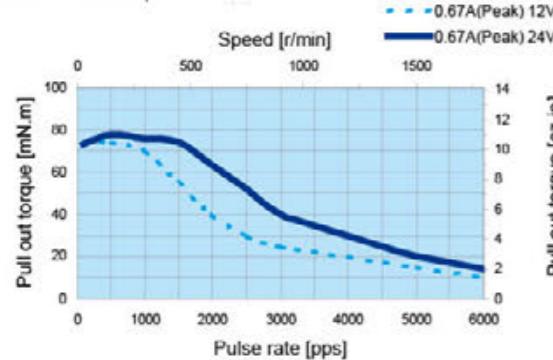
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-28S2601**

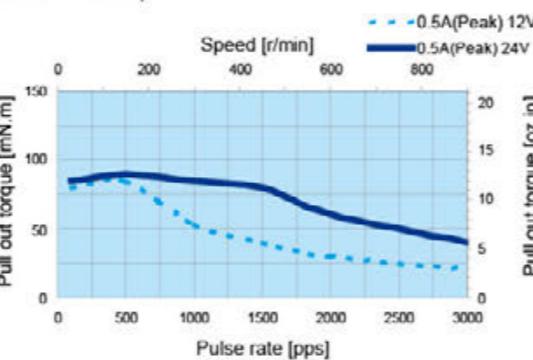
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-28S4601**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-28S6601**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD2528
Mode: Full Step

**HB-42S**

2 Phase hybrid stepping motor



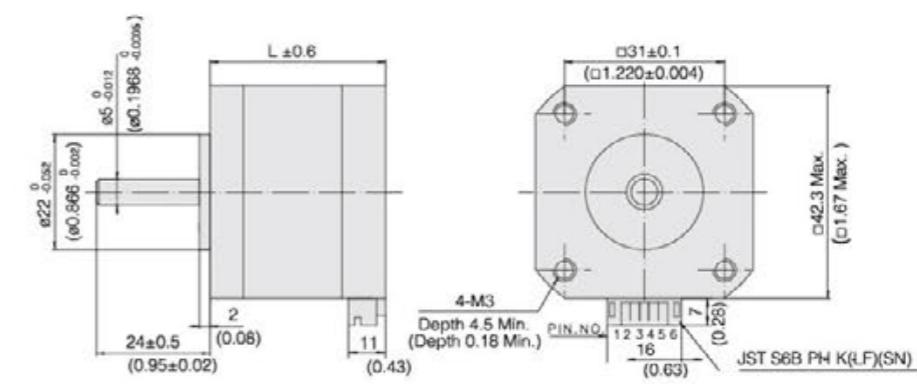
42mm 1.8° Unipolar Bipolar

Unipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-42S1001	1.8°	3.9	1.0	3.9	3.0	200	40	6	210	33.5
HB-42S1002	1.8°	5.0	0.8	6.3	4.7	200	40	6	210	33.5
HB-42S1003	1.8°	9.5	0.4	23.7	18.9	200	40	6	210	33.5
HB-42S3001	1.8°	3.5	1.2	2.9	3.3	272	57	6	280	39.5
HB-42S3002	1.8°	5.8	0.8	7.3	6.8	258	57	6	280	39.5
HB-42S3003	1.8°	11.0	0.4	27.6	27.0	258	57	6	280	39.5
HB-42S5001	1.8°	4.2	1.2	3.5	2.9	441	82	6	360	47.5
HB-42S5002	1.8°	5.7	0.9	6.5	5.3	444	82	6	360	47.5
HB-42S5003	1.8°	9.8	0.5	19.6	17.0	441	82	6	360	47.5
HB-42S7001	1.8°	3.0	2	1.5	3.3	650	128	6	610	59.7
HB-42S7002	1.8°	6.8	1	6.8	13.2	650	128	6	610	59.7

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-42S1004	1.8°	4.7	1.7	1.4	2.1	283	40	4	210	33.5
HB-42S1005	1.8°	7.2	1.15	3.1	4.7	288	40	4	210	33.5
HB-42S1006	1.8°	14.2	0.6	11.8	18.9	300	40	4	210	33.5
HB-42S3004	1.8°	4.6	1.80	1.3	2.5	357	57	4	280	39.5
HB-42S3005	1.8°	8.0	1.10	3.6	6.8	355	57	4	280	39.5
HB-42S3006	1.8°	15.2	0.55	13.8	27.0	355	57	4	280	39.5
HB-42S5004	1.8°	6.0	1.70	1.8	2.9	625	82	4	360	47.5
HB-42S5005	1.8°	8.4	1.20	3.5	6.5	655	82	4	360	47.5
HB-42S5006	1.8°	20.7	0.60	17.2	26.5	662	82	4	360	47.5
HB-42S7003	1.8°	4.2	2.80	0.8	3.3	910	128	4	610	59.7
HB-42S7004	1.8°	9.5	1.40	3.4	13.2	910	128	4	610	59.7

Dimensions

HB-42C 系列

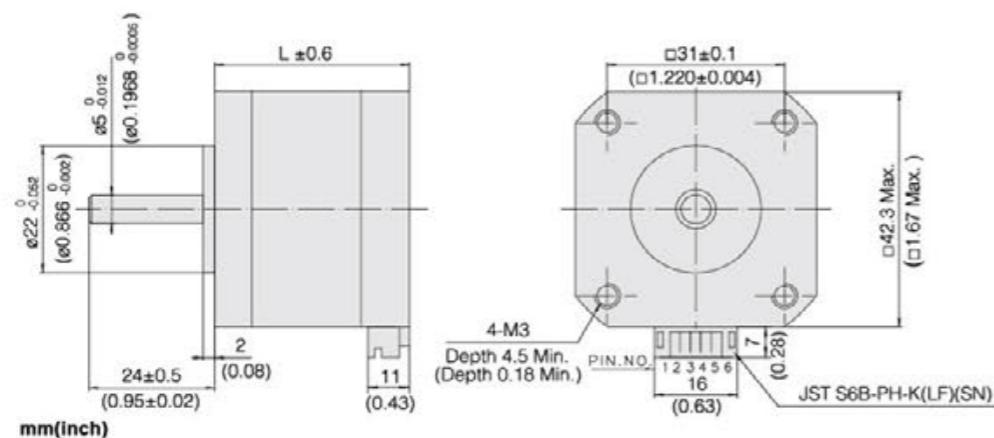
42mm 0.9° Bipolar



Bipolar

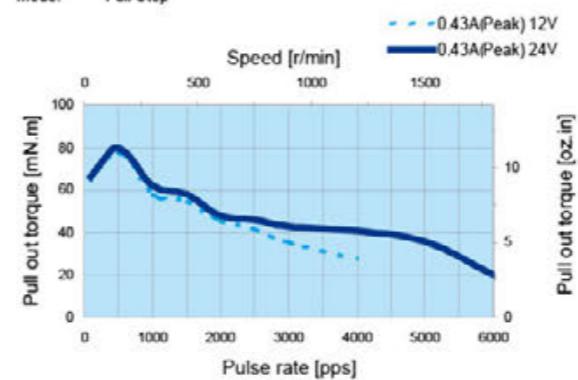
Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-42C1001	0.9°	3.2	2	1.6	2.0	188	27	4	140	29.5
HB-42C1002	0.9°	4.3	1.5	2.8	3.5	185	27	4	140	29.5
HB-42C1003	0.9°	10.9	0.6	18.2	24.2	194	27	4	140	29.5
HB-42C3001	0.9°	4.7	2.00	2.4	2.7	393	57	4	280	39.5
HB-42C3002	0.9°	8.5	1.10	7.7	9.5	405	57	4	280	39.5
HB-42C3003	0.9°	15.3	0.55	27.9	34.8	388	57	4	280	39.5
HB-42C5001	0.9°	3.3	1.50	2.2	6.4	530	82	4	360	47.5
HB-42C5002	0.9°	5.0	1.00	5.0	14.4	530	82	4	360	47.5
HB-42C5003	0.9°	7.8	0.70	11.1	32.4	557	82	4	360	47.5

Dimensions



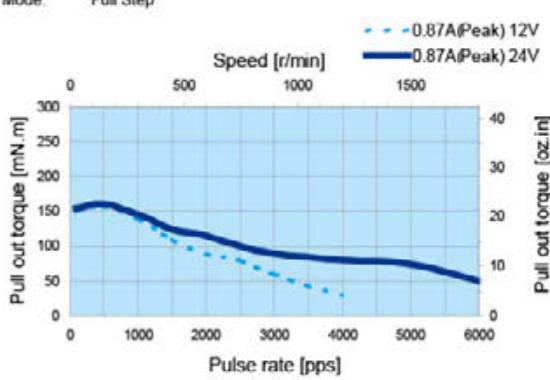
HB-42C1003

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



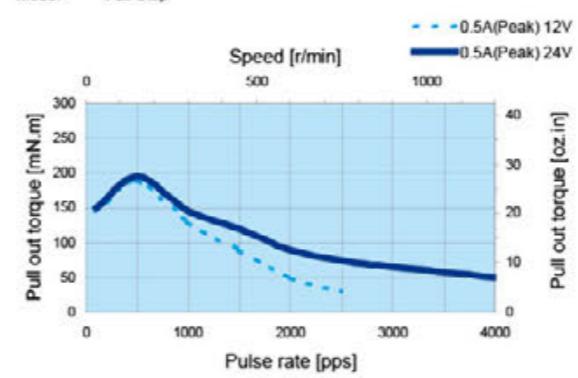
HB-42C1004

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



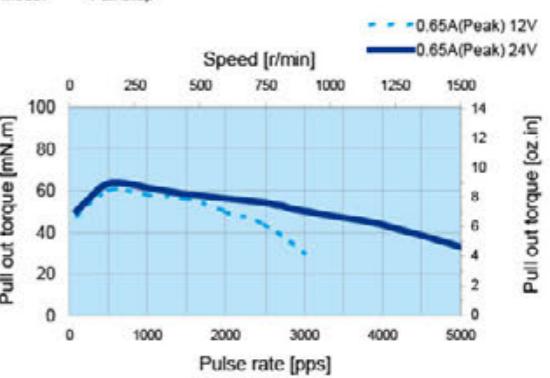
HB-42C1005

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



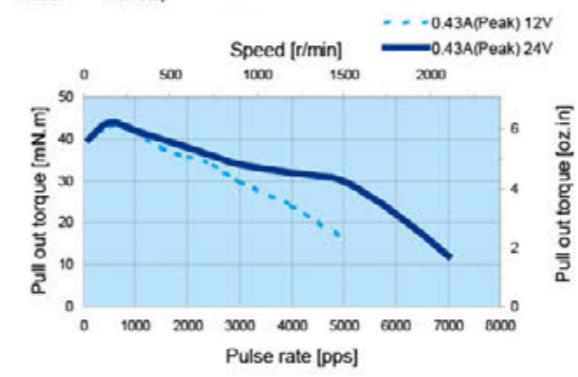
HB-42C1006

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



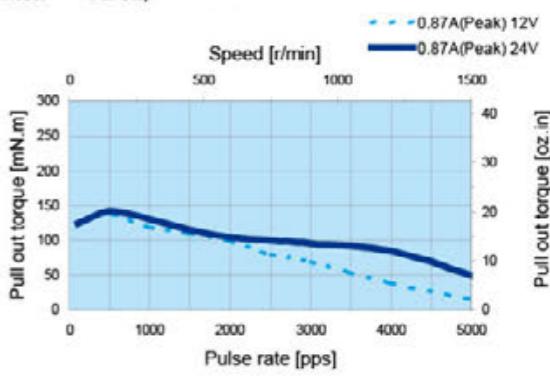
HB-42C5004

Conditions: Uni-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



HB-42C5002

Conditions: Uni-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



HB-57S

57mm | 1.8° | Unipolar | High torque output

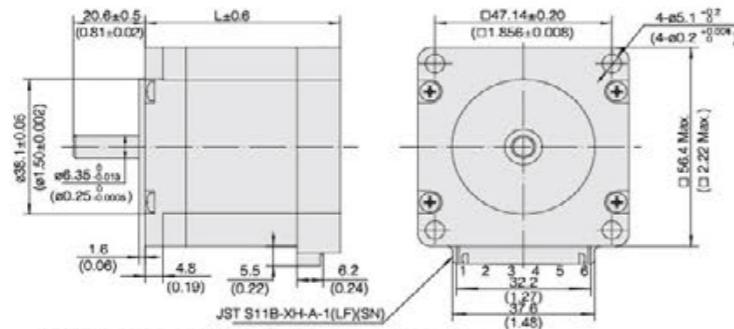
Unipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-57S1001	1.8°	2.0	3.0	0.7	1.0	663	170	6	420	42.3
HB-57S1002	1.8°	3.1	2.0	1.5	2.3	674	170	6	420	42.3
HB-57S1003	1.8°	6.0	1.0	6.0	8.8	663	170	6	420	42.3
HB-57S3001	1.8°	2.1	3.0	0.7	1.0	758	220	6	550	48.3
HB-57S3002	1.8°	3.2	2.0	1.6	2.3	770	220	6	550	48.3
HB-57S3003	1.8°	6.3	1.0	6.3	9.0	758	220	6	550	48.3
HB-57S4001	1.8°	2.4	3.0	0.8	1.2	1000	280	6	600	53.3
HB-57S4002	1.8°	3.7	2.0	1.9	2.8	1016	280	6	600	53.3
HB-57S4003	1.8°	7.3	1.0	7.3	10.8	1000	280	6	600	53.3
HB-57S6001	1.8°	3.5	3.0	1.2	1.8	1680	480	6	1000	77.3
HB-57S6002	1.8°	5.5	2.0	2.7	4.2	1707	480	6	1000	77.3
HB-57S6003	1.8°	10.7	1.0	10.7	16.2	1680	480	6	1000	77.3
HB-57S7001	1.8°	3.0	3.5	0.86	1.8	2030	530	6	1060	83.3
HB-57S7002	1.8°	7.2	1.5	4.78	10.0	2030	530	6	1060	83.3

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-57S1004	1.8°	2.8	4.2	0.33	1.0	928	170	4	510	42.3
HB-57S1005	1.8°	4.3	2.8	0.77	2.3	943	170	4	510	42.3
HB-57S1006	1.8°	8.4	1.4	3	8.8	928	170	4	510	42.3
HB-57S3004	1.8°	2.9	4.2	0.35	1.0	1061	220	4	620	48.3
HB-57S3005	1.8°	4.5	2.8	0.8	2.3	1078	220	4	620	48.3
HB-57S3006	1.8°	8.8	1.4	3.2	9.0	1061	220	4	620	48.3
HB-57S4004	1.8°	3.4	4.2	0.4	1.2	1400	280	4	710	53.3
HB-57S4005	1.8°	5.2	2.8	0.9	2.8	1422	280	4	710	53.3
HB-57S4006	1.8°	10.2	1.4	3.9	10.8	1400	280	4	710	53.3
HB-57S6004	1.8°	4.9	4.2	0.6	1.8	2352	480	4	1100	77.3
HB-57S6005	1.8°	7.7	2.8	1.4	4.2	2389	480	4	1100	77.3
HB-57S6006	1.8°	15.0	1.4	5.4	16.2	2352	480	4	1100	77.3
HB-57S7003	1.8°	4.3	5.0	0.43	1.8	2640	530	4	1160	83.3
HB-57S7004	1.8°	10.0	2.0	2.4	10.0	2700	530	4	1160	83.3

Dimensions

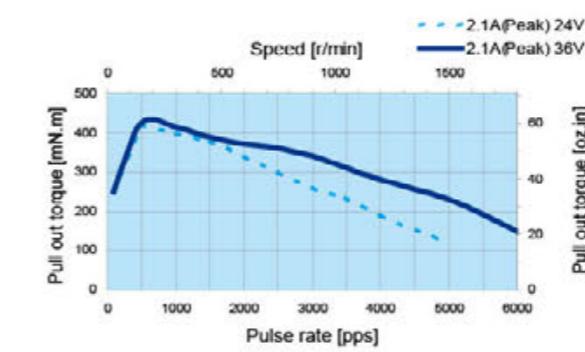


mm(inch)



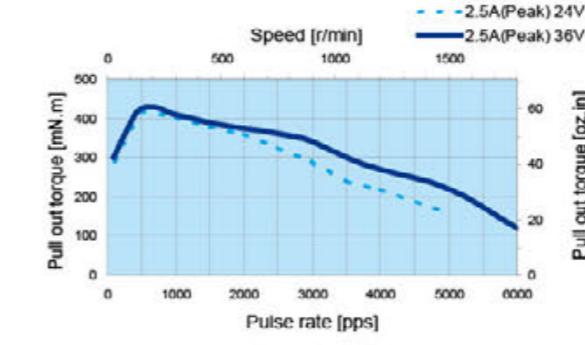
HB-57S1002

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



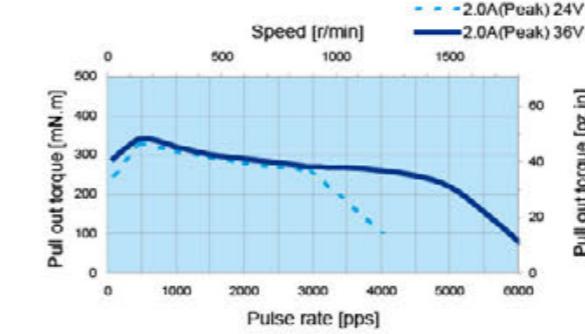
HB-57S1004

Conditions: Bi-polar Constant Current Drive
Driver: DMBSD4548
Mode: Full Step



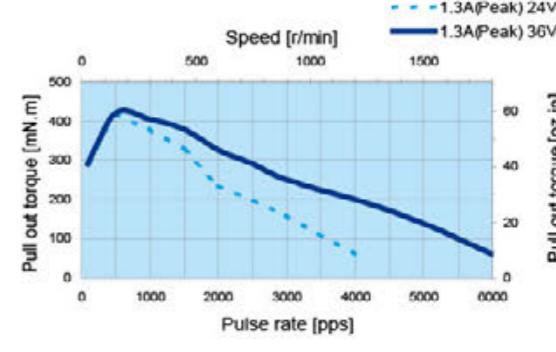
HB-57S1006

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



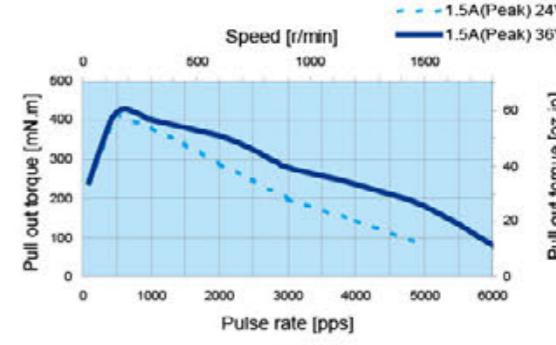
HB-57S1003

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



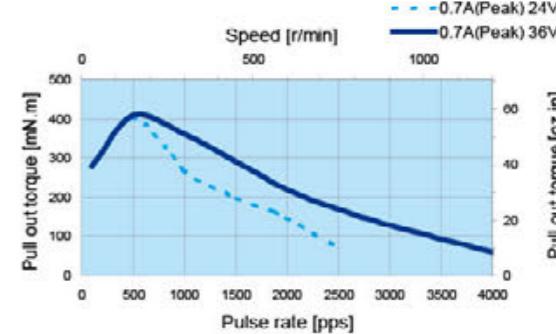
HB-57S1005

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step



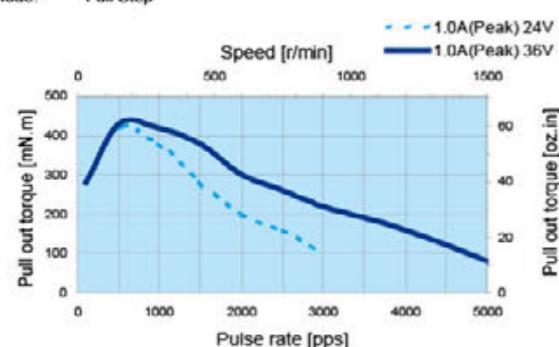
HB-57S1007

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

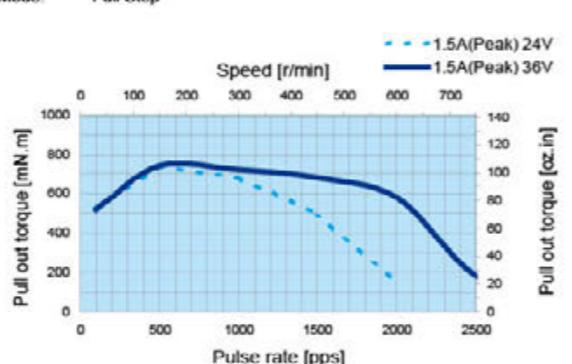


HB-57S1008

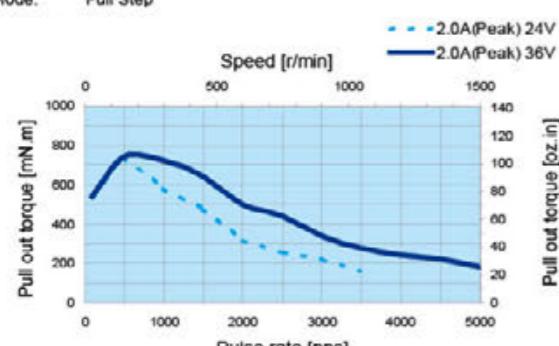
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-57S3002**

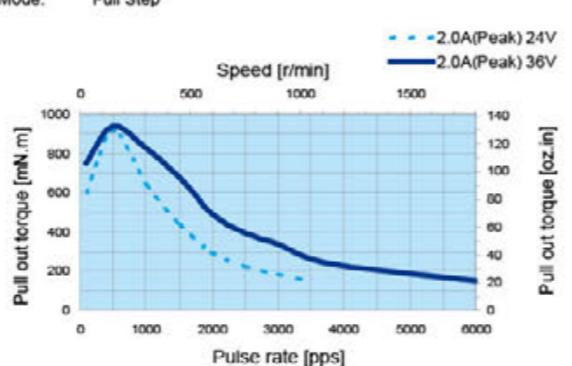
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-57S3003**

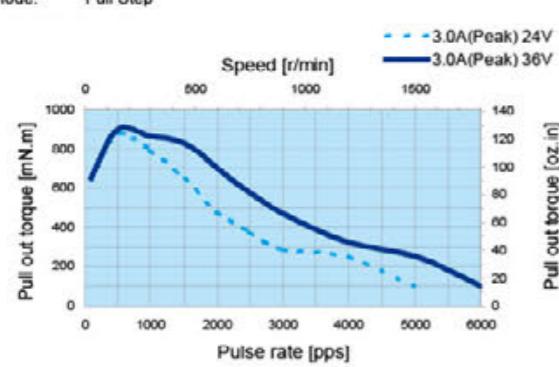
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-57S4002**

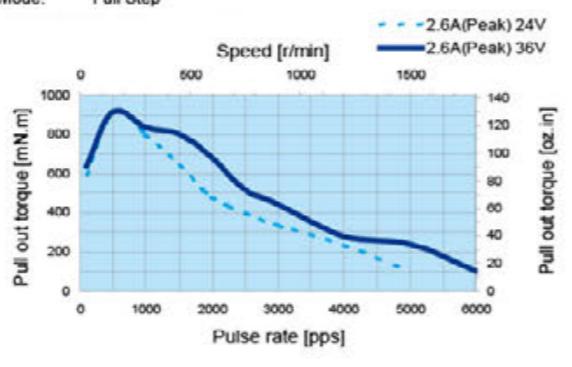
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-57S4003**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-57S3005**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

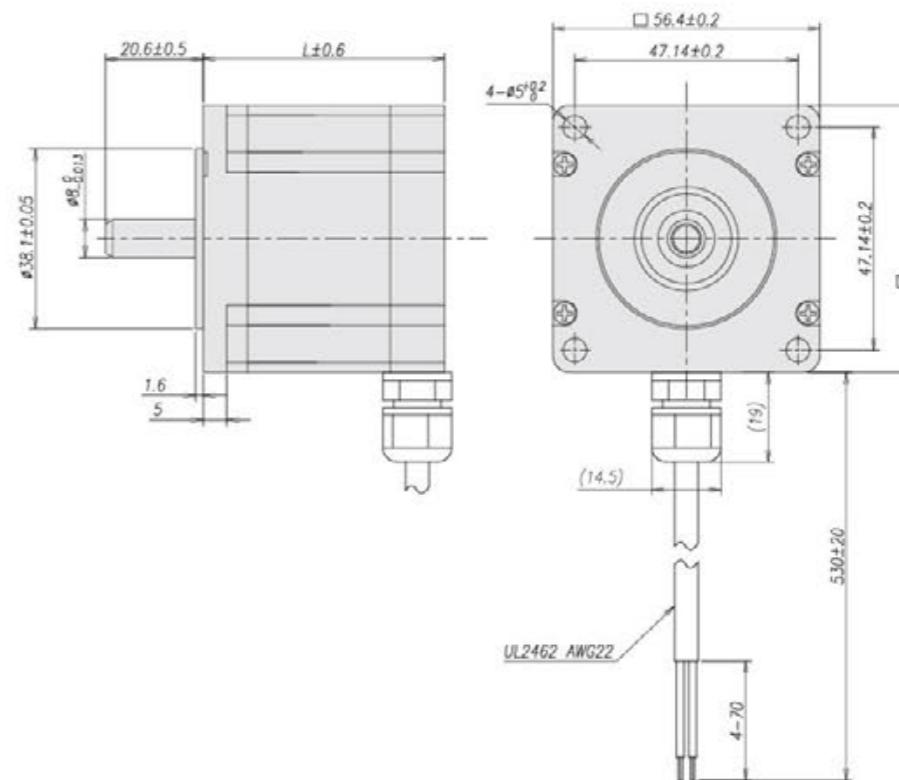
**HB-57FS**

IP68

57mm 1.8° Unipolar Waterproof performance is strong

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-57FS1004	1.8°	2.8	4.2	0.33	1.0	928	170	4	530	44
HB-57FS1005	1.8°	4.3	2.8	0.77	2.3	943	170	4	530	44
HB-57FS1006	1.8°	8.4	1.4	3	8.8	928	170	4	530	44
HB-57FS3004	1.8°	2.9	4.2	0.35	1.0	1061	220	4	640	50
HB-57FS3005	1.8°	4.5	2.8	0.8	2.3	1078	220	4	640	50
HB-57FS3006	1.8°	8.8	1.4	3.2	9.0	1061	220	4	640	50
HB-57FS4004	1.8°	3.4	4.2	0.4	1.2	1400	280	4	730	55
HB-57FS4005	1.8°	5.2	2.8	0.9	2.8	1422	280	4	730	55
HB-57FS4006	1.8°	10.2	1.4	3.9	10.8	1400	280	4	730	55
HB-57FS6004	1.8°	4.9	4.2	0.6	1.8	2352	480	4	1120	79
HB-57FS6005	1.8°	7.7	2.8	1.4	4.2	2389	480	4	1120	79
HB-57FS6006	1.8°	15.0	1.4	5.4	16.2	2352	480	4	1120	79
HB-57FS7003	1.8°	4.3	5.0	0.43	1.8	2640	530	4	1180	85
HB-57FS7004	1.8°	10.0	2.1	2.4	10.0	2700	530	4	1180	85

Dimensions

HB-60S

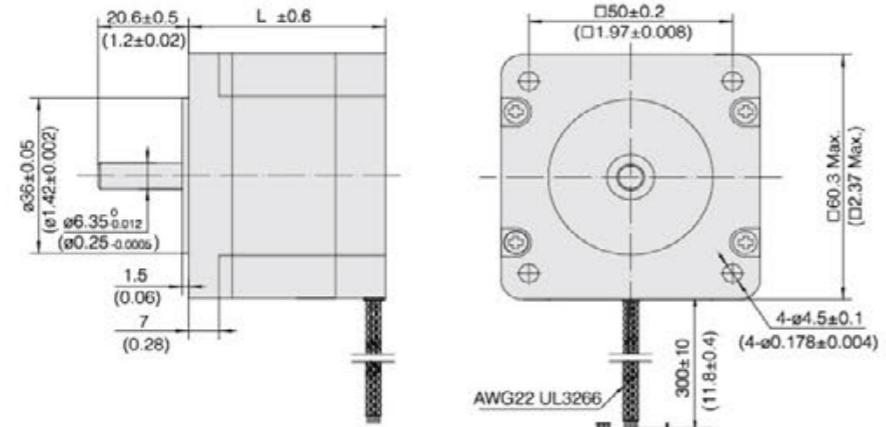
60mm | 1.8° | Unipolar | Bipolar

**Unipolar**

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-60S1601	1.8°	2.2	3.0	0.74	0.8	793	280	6	600	44
HB-60S1602	1.8°	3.4	2.0	1.7	1.8	793	280	6	600	44
HB-60S2603	1.8°	6.7	1.0	6.7	7.2	793	280	6	600	44
HB-60S2601	1.8°	2.7	3.0	0.9	1.5	1311	450	6	800	54
HB-60S2602	1.8°	4.1	2.0	2.0	3.3	1311	450	6	800	54
HB-60S2603	1.8°	8.1	1.0	8.1	13.3	1311	450	6	800	54
HB-60S4601	1.8°	3.2	3.0	1.1	1.6	1571	560	6	1050	65
HB-60S4602	1.8°	4.8	2.0	2.4	3.6	1571	560	6	1050	65
HB-60S4603	1.8°	9.6	1.0	9.6	14.3	1571	560	6	1050	65
HB-60S6601	1.8°	4.3	3.0	1.4	3.0	2333	900	6	1400	85
HB-60S6602	1.8°	6.9	2.0	3.5	6.7	2333	900	6	1400	85
HB-60S6603	1.8°	13.7	1.0	13.7	26.7	2333	900	6	1400	85

Bipolar

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-60S1401	1.8°	3.1	4.2	0.37	0.8	1110	280	4	600	44
HB-60S1402	1.8°	4.8	2.8	0.85	1.8	1110	280	4	600	44
HB-60S2403	1.8°	9.4	1.4	3.36	7.2	1110	280	4	600	44
HB-60S2401	1.8°	3.7	4.2	0.44	1.5	1836	450	4	800	54
HB-60S2402	1.8°	5.7	2.8	1.02	3.3	1836	450	4	800	54
HB-60S2403	1.8°	11.3	1.4	4.04	13.3	1836	450	4	800	54
HB-60S4401	1.8°	4.4	4.2	0.53	1.6	2200	560	4	1050	65
HB-60S4402	1.8°	6.8	2.8	1.21	3.6	2200	560	4	1050	65
HB-60S4403	1.8°	13.4	1.4	4.80	14.3	2200	560	4	1050	65
HB-60S6401	1.8°	6.1	4.2	0.72	3.0	3267	900	4	1400	85
HB-60S6402	1.8°	9.7	2.8	1.7	6.7	3267	900	4	1400	85
HB-60S6403	1.8°	19.2	1.4	6.9	26.7	3267	900	4	1400	85

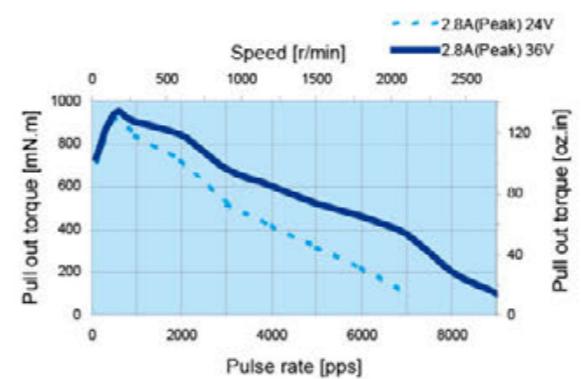
Dimensions

mm(inch)

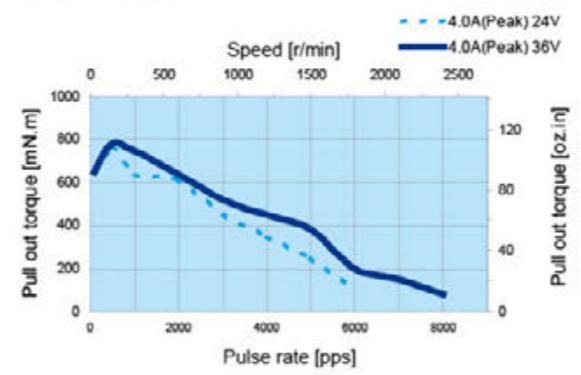
Note: If need special specification, pls contact with us.

HB-60S1601

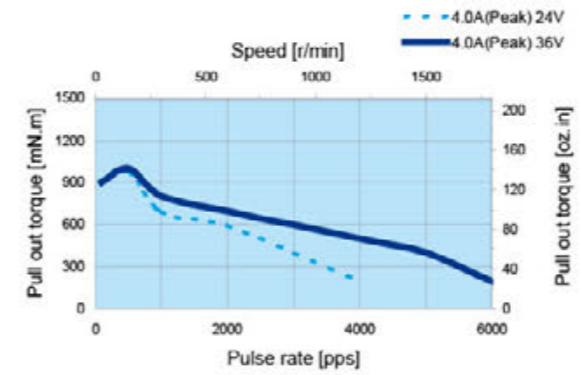
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-60S1605**

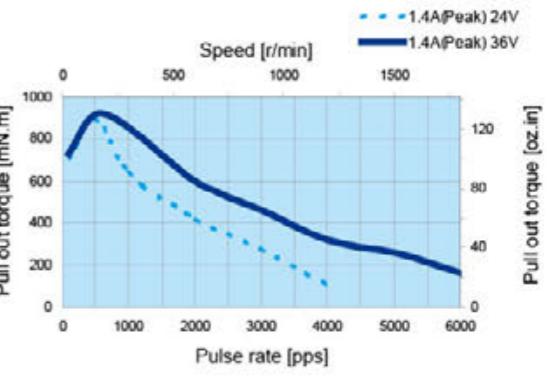
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-60S2401**

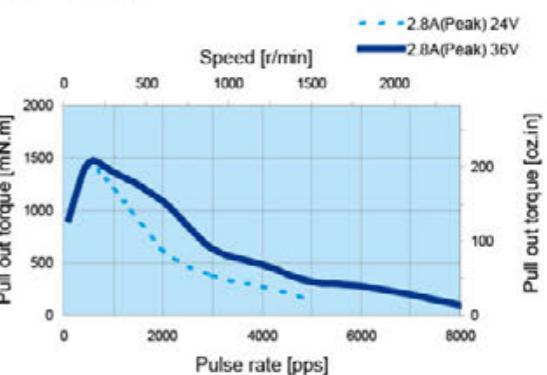
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-60S1603**

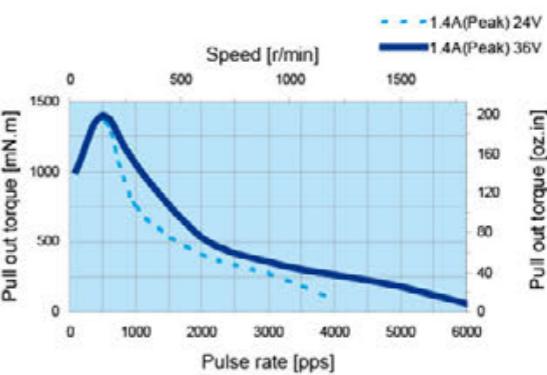
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

**HB-60S2402**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

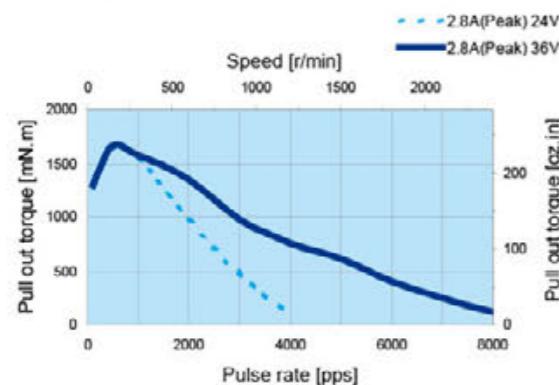
**HB-60S2403**

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD4548
Mode: Full Step

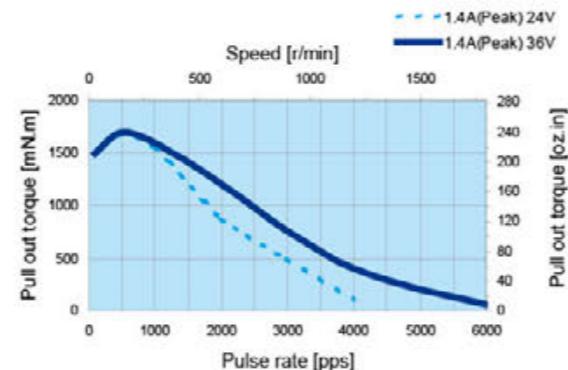


HB-60S4402

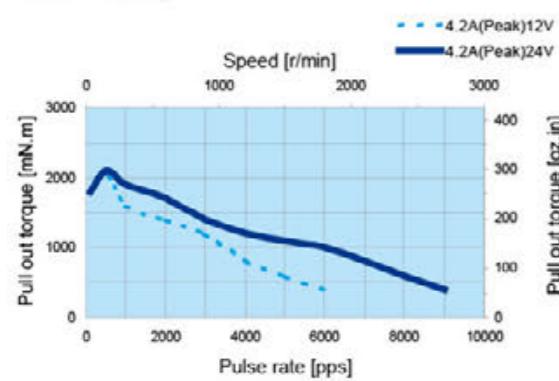
Conditions: Bi-polar Constant Current Driver
Driver: AMP MS3540M-301
Mode: Full Step

**HB-60S4403**

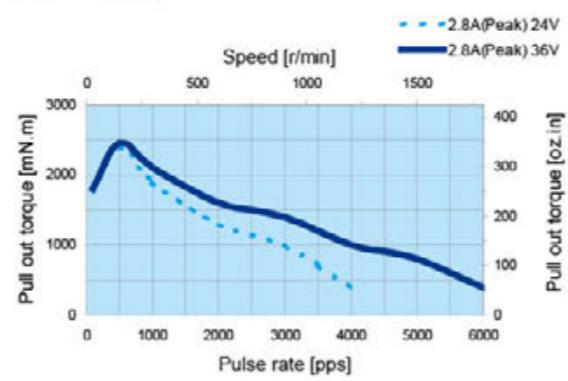
Conditions: Bi-polar Constant Current Driver
Driver: AMP MS3540M-301
Mode: Full Step

**HB-60S6401**

Conditions: Bi-polar Constant Current Driver
Driver: AMP MS3540M-301
Mode: Full Step

**HB-60S6402**

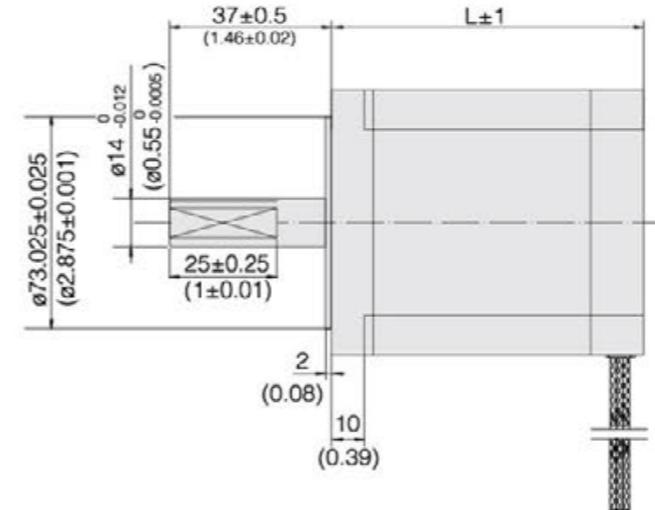
Conditions: Bi-polar Constant Current Driver
Driver: AMP MS3540M-301
Mode: Full Step

**HB-86S**

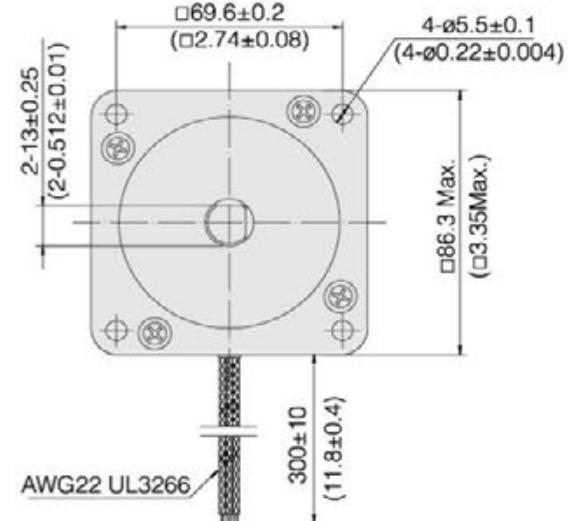
□ 86mm | 1.8° | Unipolar | Big torque output

**Bipolar**

Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-86S1801	1.8°	3.1	3.2	0.96	6.0	4	1100	4	1.7	66.5
HB-86S1801	1.8°	2.2	4.5	0.48	1.5	2.8	1100	4	1.7	66.5
HB-86S1801	1.8°	1.5	6.4	0.24	1.5	4	1100	4	1.7	66.5
HB-86S2801	1.8°	3.5	3.2	1.10	7.0	5.6	1400	4	2.3	79.5
HB-86S2801	1.8°	2.5	4.5	0.55	1.8	4	1400	4	2.3	79.5
HB-86S2801	1.8°	1.8	6.4	0.28	1.8	5.6	1400	4	2.3	79.5
HB-86S3801	1.8°	4.2	3.2	1.32	12.0	8.2	1950	4	2.7	95.5
HB-86S3801	1.8°	3.0	4.5	0.66	3.0	5.8	1950	4	2.7	95.5
HB-86S3801	1.8°	2.1	6.4	0.33	3.0	8.2	1950	4	2.7	95.5
HB-86S5801	1.8°	5.4	2.8	1.94	21.6	12	2850	4	3.8	124
HB-86S5801	1.8°	3.9	4.0	0.97	5.4	8.4	2850	4	3.8	124
HB-86S5801	1.8°	2.7	5.6	0.49	5.4	12	2850	4	3.8	124

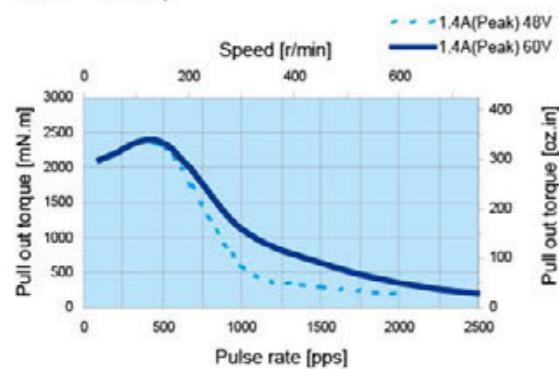
Dimensions

mm(inch)

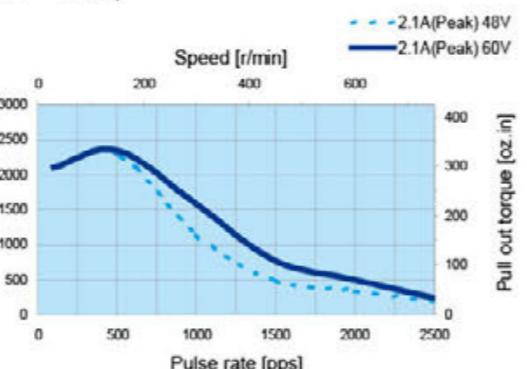


HB-86S0801 Bi-polar series

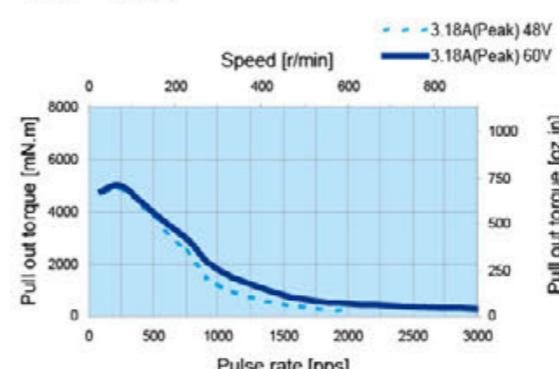
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S0802** Bi-polar series

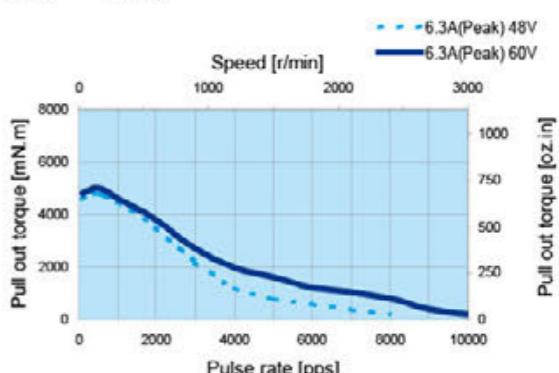
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S1808** Bi-polar series

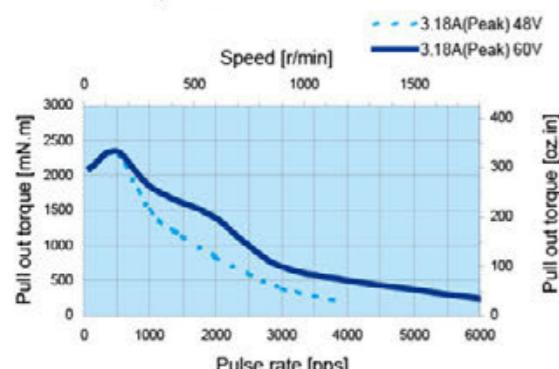
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S1809** Bi-polar parallel

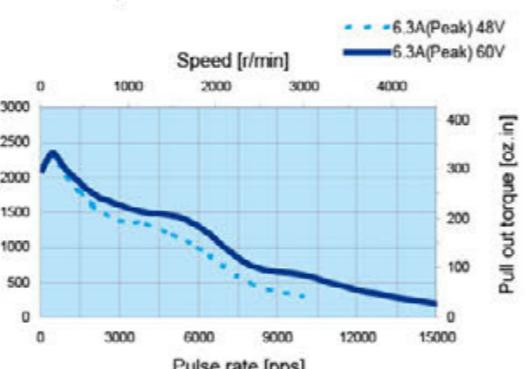
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S0803** Bi-polar series

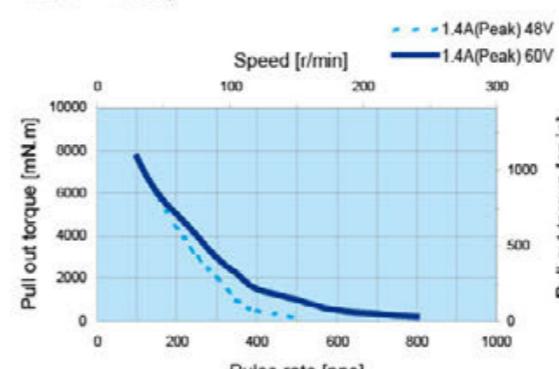
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S0804** Bi-polar parallel

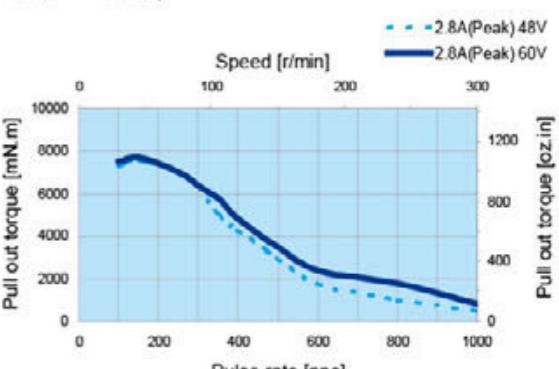
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S4801** Bi-polar series

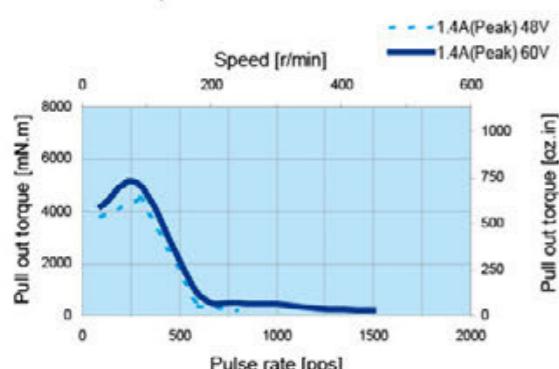
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S4802** Bi-polar series

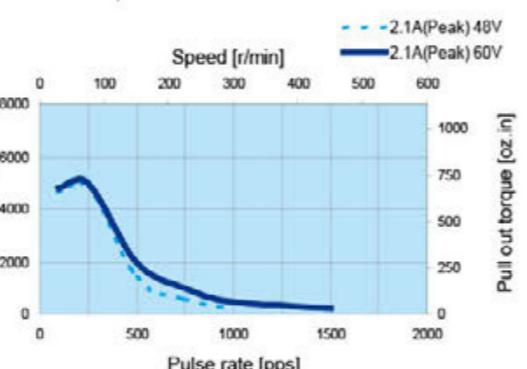
Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S1806** Bi-polar series

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

**HB-86S1807** Bi-polar series

Conditions: Bi-polar Constant Current Driver
Driver: DMBSD7875
Mode: Full Step

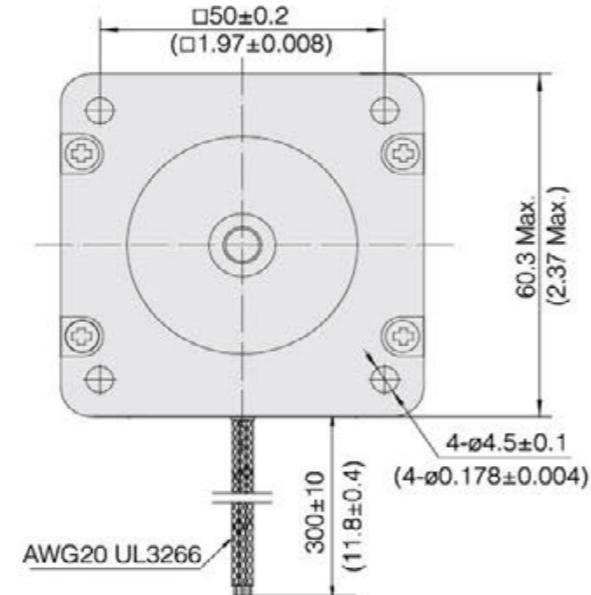
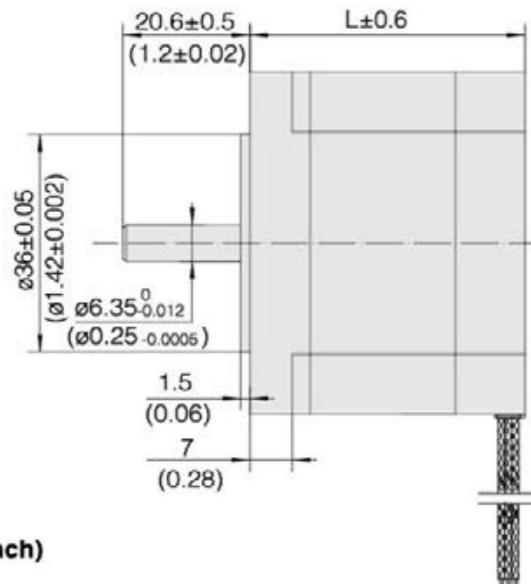


HB-60T

60mm | 1.2° | Bipolar | Low inertia

**Bipolar**

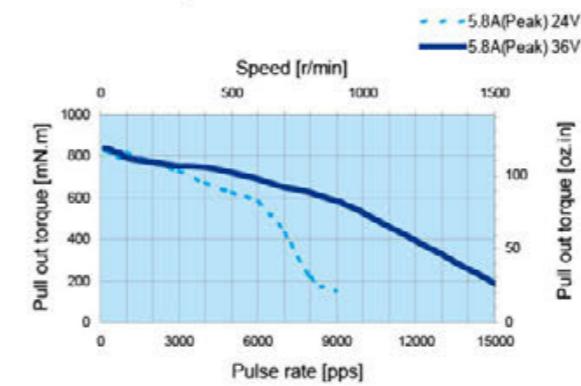
Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-60T1301	1.2°	8.0	1.8	4.4	10.4	764	180	4	500	46
HB-60T1302	1.2°	3.6	4.0	0.9	6.2	754	180	4	500	46
HB-60T3301	1.2°	5.9	1.5	3.9	10.9	9.4	260	4	800	55
HB-60T3302	1.2°	1.7	5.8	0.30	0.76	900	260	4	800	55
HB-60T5301	1.2°	4.5	2.0	2.2	11.8	1523	460	4	1300	77
HB-60T5302	1.2°	2.6	5.8	0.45	1.3	1510	460	4	1300	77

Dimensions

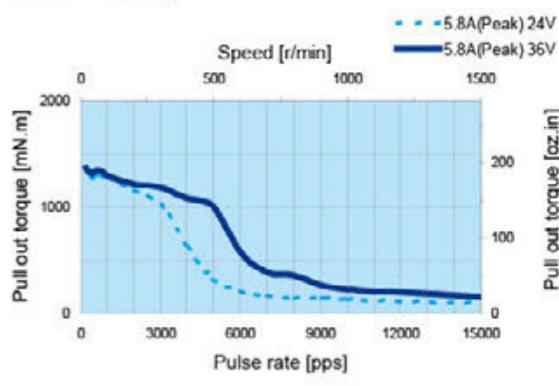
mm(inch)

HB-60T3302

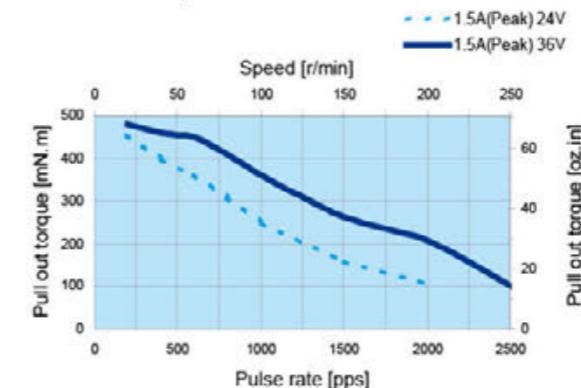
Conditions: 3-Phase Constant Current Driver
Driver: DMB3SD3538
Mode: Half Step

**HB-60T5302**

Conditions: 3-Phase Constant Current Drive
Driver: DMB3SD3538
Mode: Half Step

**HB-60T3301**

Conditions: 3-Phase Constant Current Driver
Driver: DMB3SD3538
Mode: Full Step

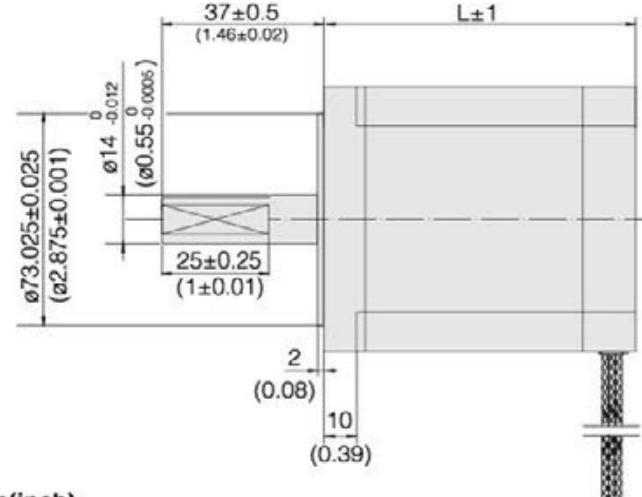


HB-86T

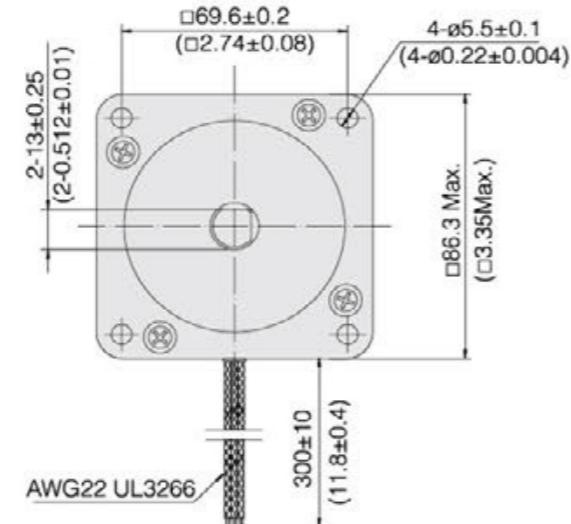
86mm | 1.2° | Bipolar | Low inertia

**Bipolar**

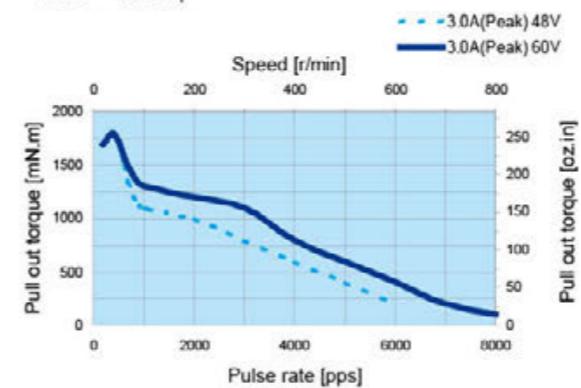
Model No.	(deg) Step torque angle	(V) Rated Voltage	(A) Current	(ohm) Resistance	(mH) Inductance	(mN.m) Holding Torque	(g.cm²) Rotor Inertia	Outgoing line	(g) Weight	(mm) Thickness
HB-86T1301	1.2°	6.0	3.0	1.32	26.7	1892	1100	4	1.7	66.5
HB-86T1302	1.2°	3.4	6.0	0.38	21.6	1966	1100	4	1.7	66.5
HB-86T2301	1.2°	7.6	3.0	1.70	26.7	2489	1400	4	2.3	79.5
HB-86T2302	1.2°	4.4	6.0	0.49	21.6	2586	1400	4	2.3	79.5
HB-86T3301	1.2°	9.1	3.0	2.02	50.0	4043	1950	4	2.7	95.5
HB-86T3302	1.2°	5.2	6.0	0.58	40.5	4200	1950	4	2.7	95.5
HB-86T5301	1.2°	12.5	3.0	2.79	73.4	6256	2850	4	3.8	124
HB-86T5302	1.2°	7.2	6.0	0.80	59.4	6500	2850	4	3.8	124

Dimensions

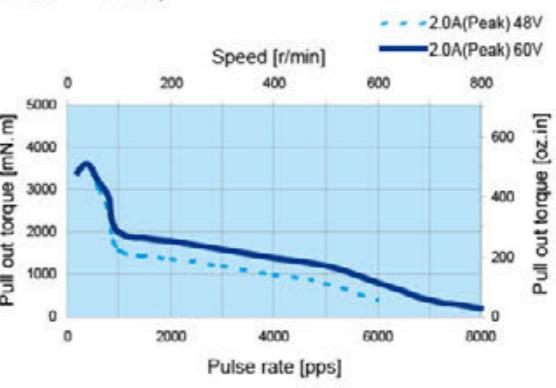
mm(inch)

**HB-86T1301**

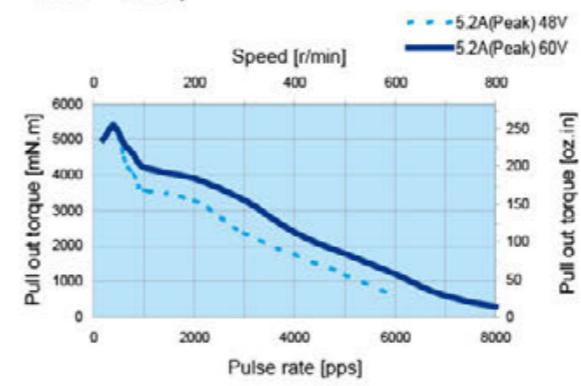
Conditions: 3-Phase Constant Current Driver
Driver: DMB3SD9895
Mode: Half Step

**HB-86T2302**

Conditions: 3-Phase Constant Current Driver
Driver: DMB3SD9895
Mode: Half Step

**HB-86T3303**

Conditions: 3-Phase Constant Current Driver
Driver: DMB3SD9895
Mode: Half Step



20mm Screw the hybrid stepping motor

0.006mm, 0.01mm, 0.02mm, 0.04mm

Motor specifications

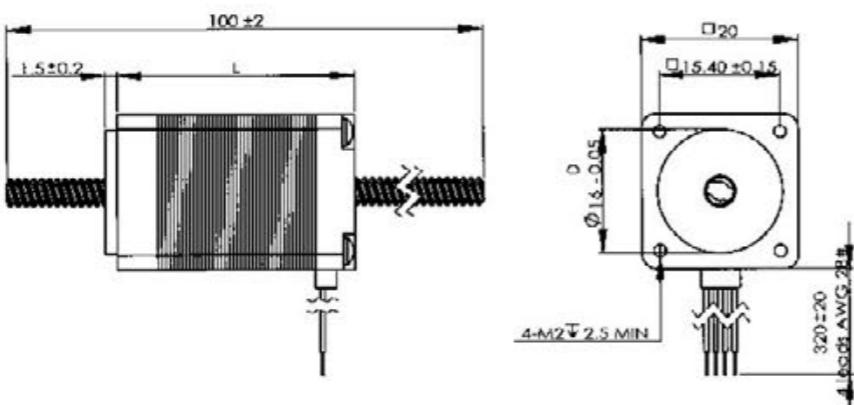
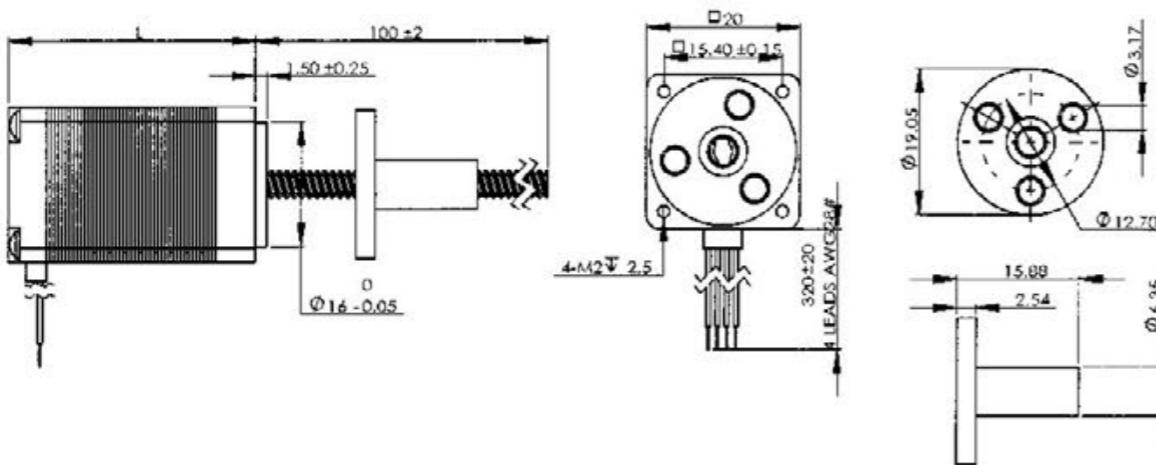
Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-20S83024-003	0.3A	20Ω ± 10%	5.0mH ± 20%	4	30mm
HL-20S83024-003	0.5A	5Ω ± 10%	1.5mH ± 20%	4	30mm
HL-20S84244-006	0.6A	10Ω ± 10%	5.5mH ± 20%	4	42mm



RoHS
COMPLIANT
2002/95/EC

Optional screw lead and basic step

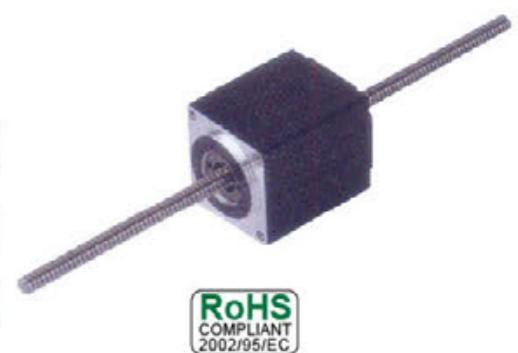
Screw diameter (in)	Screw diameter (mm)	Lead(in)	Lead(mm)	Step(mm)
0.138	3.5052	0.024	0.6096	0.0030
0.138	3.5052	0.048	1.2192	0.0061
0.138	3.5052	0.079	2	0.01
0.138	3.5052	0.158	4	0.02
0.138	3.5052	0.315	8	0.04

Motor outline (mm)**Connecting shaft****External driv**

0.003175 0.0508mm

Motor specifications

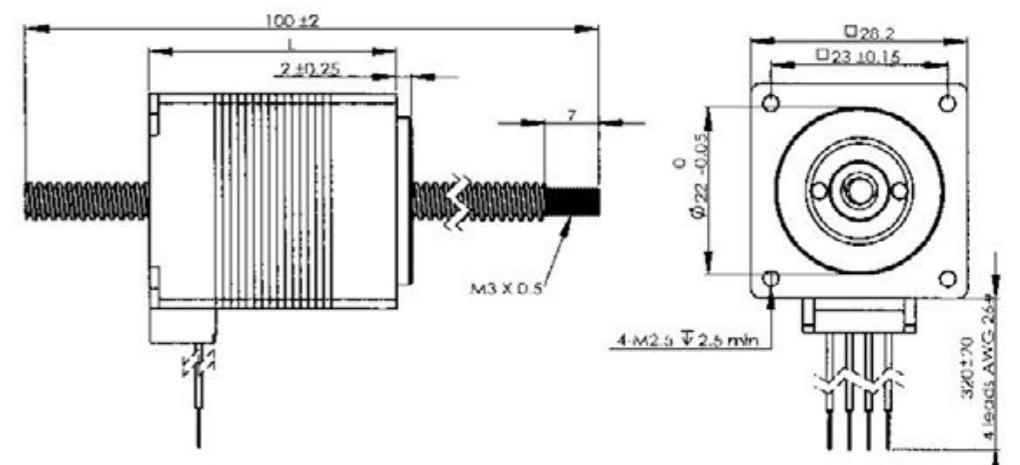
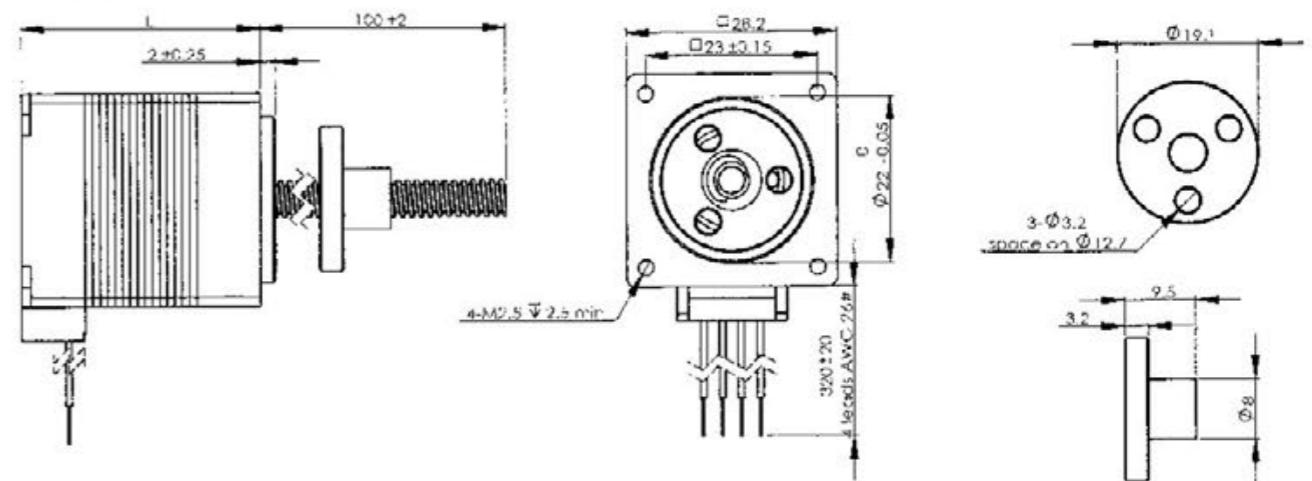
Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-28S113424-002	0.2A	68Ω ± 10%	30mH ± 20%	4	34mm
HL-28S113424-006	0.5A	10Ω ± 10%	6mH ± 20%	4	34mm
HL-28S114044-001	1.0A	2.1Ω ± 10%	1.5mH ± 20%	4	44mm
HL-28S1140-067	0.67A	6.8Ω ± 10%	4.9mH ± 20%	4	45mm
HL-28S115164-085	0.95A	3.2Ω ± 10%	5.0mH ± 20%	4	45mm
HL-28S115164-002	2.0A	1.1Ω ± 10%	1.1mH ± 20%	4	45mm



RoHS
COMPLIANT
2002/95/EC

Optional screw lead and basic step

Screw diameter (in)	Screw diameter (mm)	Lead(in)	Lead(mm)	Step(mm)
0.188	4.7625	0.025	0.635	0.0032
0.188	4.7752	0.050	1.27	0.0063
0.188	4.7752	0.100	2.54	0.0127
0.188	4.7752	0.200	5.8	0.0254
0.188	4.7752	0.400	10.16	0.0508

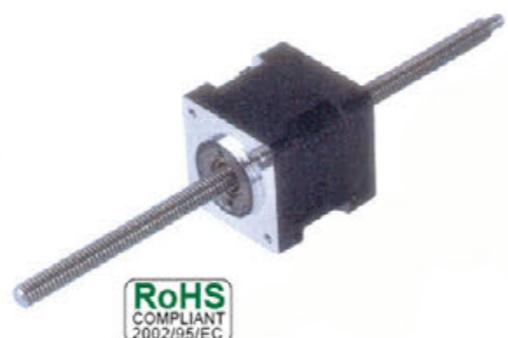
Motor outline (mm)**Connecting shaft****External driv**

35mm Screw the hybrid stepping motor

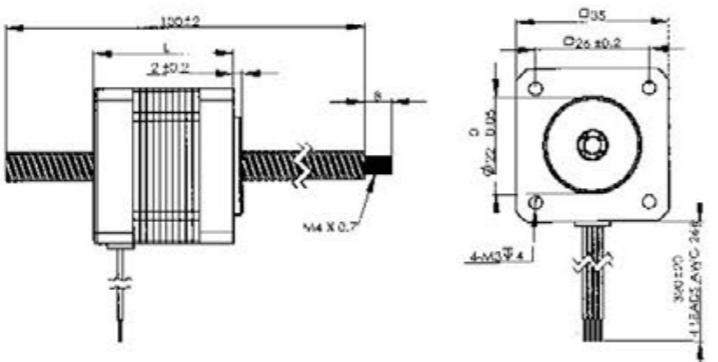
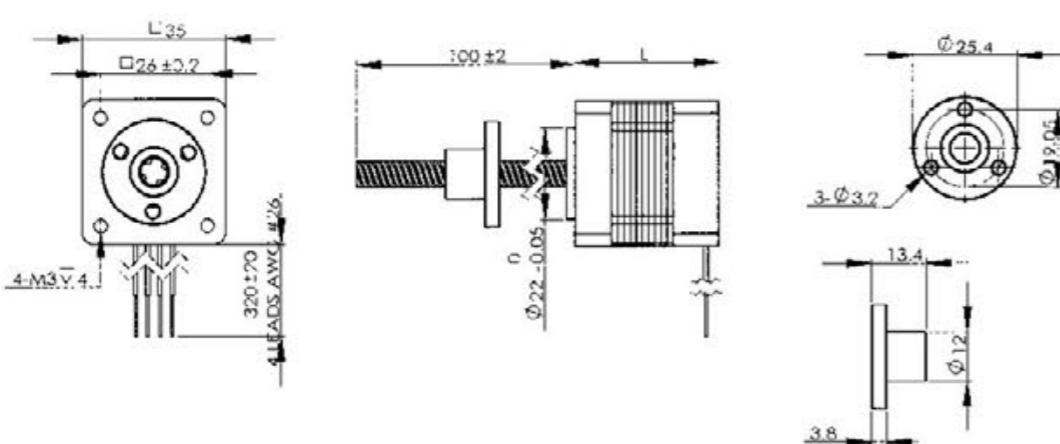
0.003 0.048768mm

Motor specifications

Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-35S143524-006	0.5A	14Ω ± 10%	20mH ± 20%	4	35mm
HL-35S143524-001	1.0A	3.5Ω ± 10%	4mH ± 20%	4	35mm
HL-35S144744-015	1.5A	1.5Ω ± 10%	2.0mH ± 20%	4	45mm
HL-35S144744-005	0.5A	28Ω ± 10%	40mH ± 20%	4	47mm
HL-35S144744-001	1.0A	5.5Ω ± 10%	7.6mH ± 20%	4	47mm
HL-35S144744-002	2.0A	1.2Ω ± 10%	1.95mH ± 20%	4	47mm

**Optional screw lead and basic step**

Screw diameter (in)	Screw diameter (mm)	Lead (in)	Lead (mm)	∅1.8°Step (mm)	∅0.9°Step (mm)
0.250	6.35	0.024	0.6096	0.003	0.015
0.250	6.35	0.048	1.2192	0.006	0.030
0.250	6.35	0.050	1.27	0.006	0.032
0.250	6.35	0.063	1.6002	0.008	0.040
0.250	6.35	0.096	2.4384	0.012	0.061
0.250	6.35	0.100	2.54	0.012	0.064
0.250	6.35	0.192	4.8768	0.024	0.122
0.250	6.35	0.025	6.35	0.031	0.159
0.250	6.35	0.330	8.382	0.041	0.210
0.250	6.35	0.384	9.7536	0.048	0.244

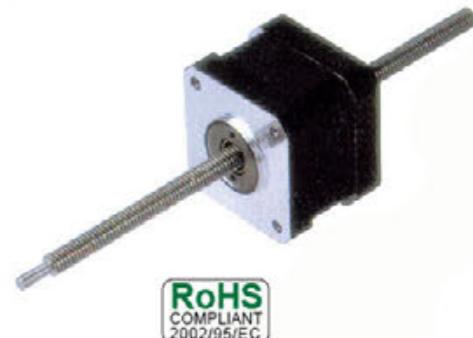
Motor outline (mm)**Connecting shaft****External driv**

42mm Screw the hybrid stepping motor

0.003 0.127mm

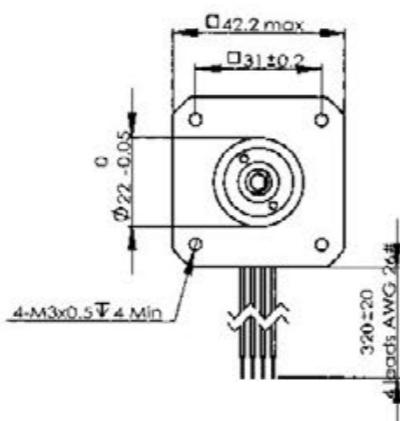
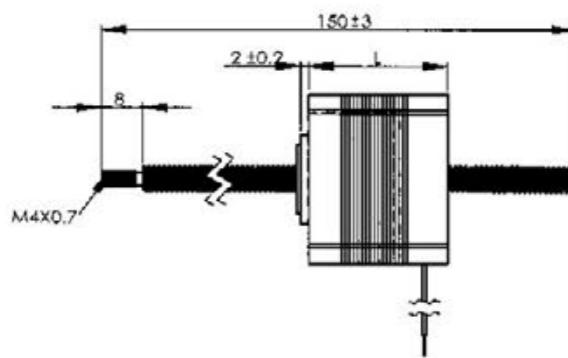
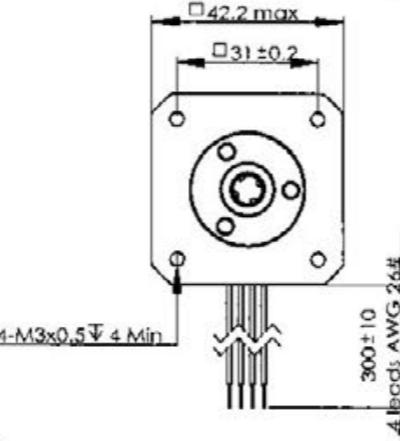
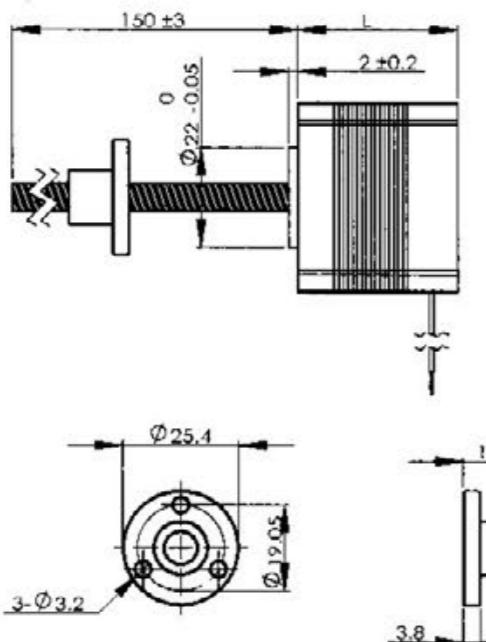
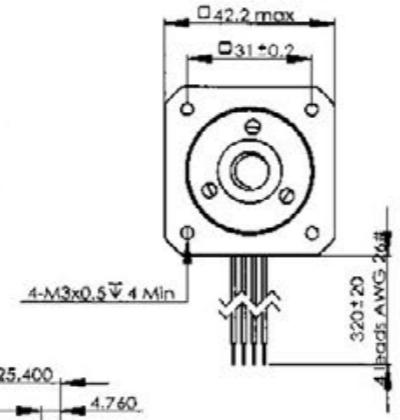
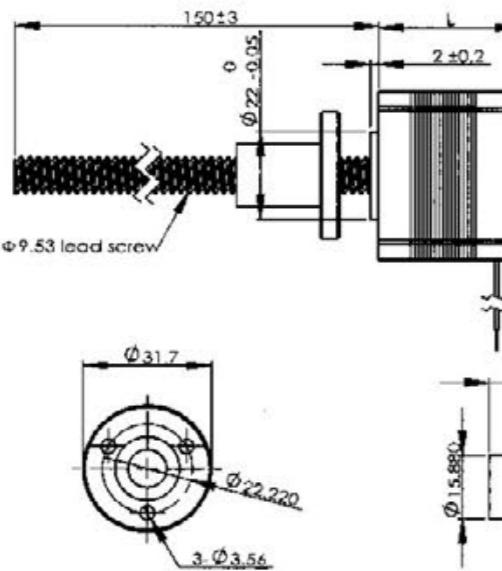
Motor specifications

Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-42S1733514-006	0.5A	16Ω ± 10%	23mH ± 20%	4	35mm
HL-42S1733514-001	1.0A	4.2Ω ± 10%	6mH ± 20%	4	35mm
HL-42S1733515-015	1.5A	1.8Ω ± 10%	3mH ± 20%	4	35mm
HL-42S1747554-005	0.5A	23Ω ± 10%	50mH ± 20%	4	49mm
HL-42S1747554-012	1.2A	3.5Ω ± 10%	9mH ± 20%	4	49mm
HL-42S1747554-025	2.5A	1.0Ω ± 10%	1.5mH ± 20%	4	49mm

**Optional screw lead and basic step**

Screw diameter (in)	Screw diameter (mm)	Lead (in)	Lead (mm)	∅1.8°Step (mm)	∅0.9°Step (mm)
0.250	6.35	0.024	0.6096	0.003	0.015
0.250	6.35	0.048	1.2192	0.006	0.030
0.250	6.35	0.050	1.27	0.006	0.032
0.250	6.35	0.063	1.6002	0.008	0.040
0.250	6.35	0.096	2.4384	0.012	0.061
0.250	6.35	0.100	2.54	0.012	0.064
0.250	6.35	0.192	4.8768	0.024	0.0122
0.250	6.35	0.025	6.35	0.031	0.0159
0.250	6.35	0.330	8.382	0.041	0.0210
0.250	6.35	0.384	9.7536	0.048	0.0244
0.375	9.525	0.025	0.635	0.003	0.0016
0.375	9.525	0.050	1.27	0.006	0.0032
0.375	9.525	0.063	1.6002	0.008	0.0040
0.375	9.525	0.083	2.1082	0.010	0.0053
0.375	9.525	0.100	2.54	0.012	0.0064
0.375	9.525	0.125	3.175	0.015	0.0079
0.375	9.525	0.167	4.2418	0.021	0.0106
0.375	9.525	0.200	5.08	0.025	0.0127
0.375	9.525	0.250	6.35	0.031	0.0159
0.375	9.525	0.375	9.525	0.047	0.0238
0.375	9.525	0.384	9.7536	0.048	0.0244
0.375	9.525	0.500	12.7	0.063	0.0318
0.375	9.525	1.000	25.4	0.127	0.0635

42mm Screw the hybrid stepping motor

Motor outline (mm)
Connecting shaft
**External driv****9.525mm**

57mm Screw the hybrid stepping motor

0.0016 0.127mm

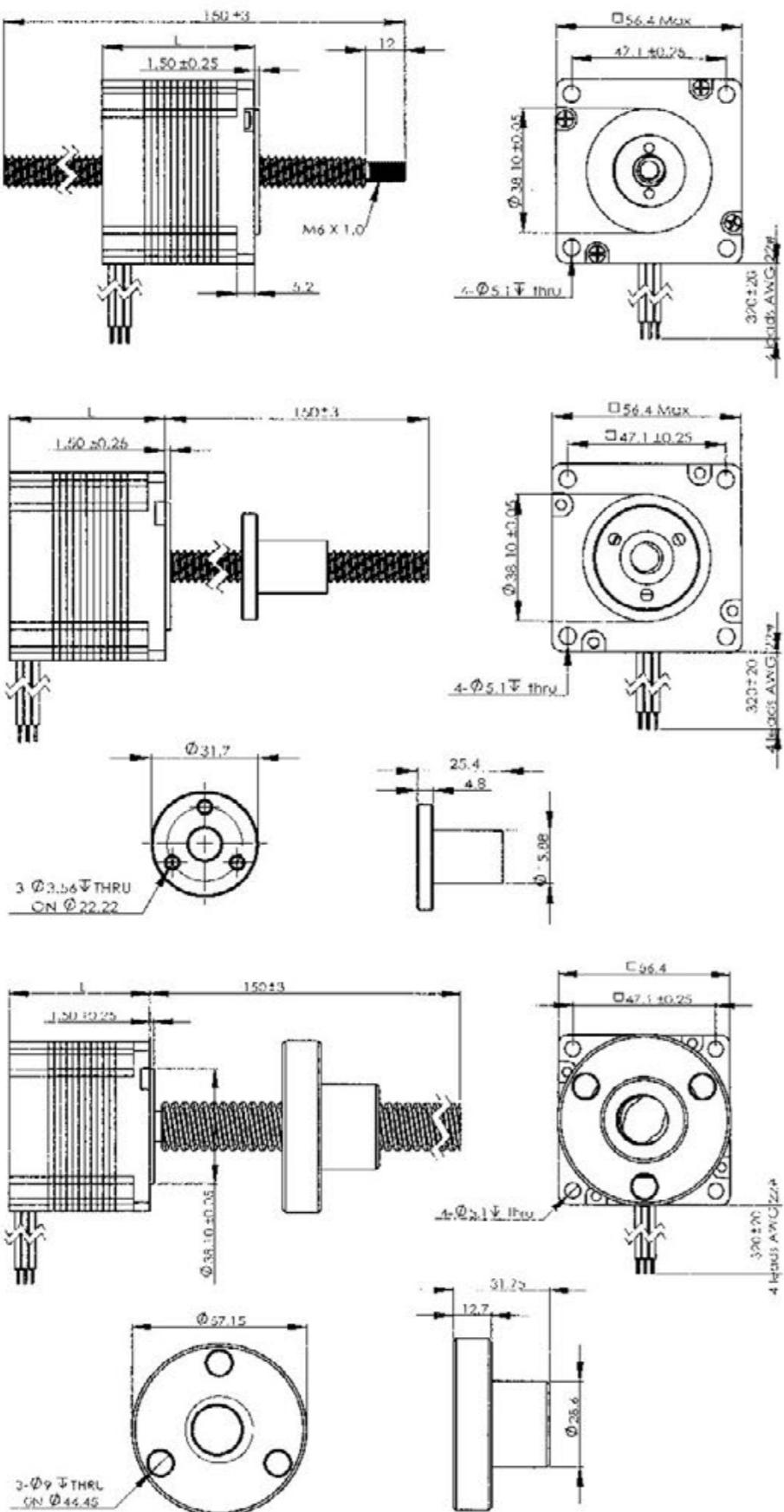
Motor specifications

Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-57S2348334-001	1.0A	5.0Ω ± 10%	15.7mH ± 20%	4	47mm
HL-57S2348334-002	2.0A	1.4Ω ± 10%	4.1mH ± 20%	4	47mm
HL-57S2348334-003	3.0A	0.6Ω ± 10%	1.9mH ± 20%	4	47mm
HL-57S236544-001	1.0A	12Ω ± 10%	35mH ± 20%	4	66mm
HL-57S236544-025	2.5A	2.0Ω ± 10%	7.6mH ± 20%	4	66mm
HL-57S236544-040	4.0A	0.7Ω ± 10%	2.1mH ± 20%	4	66mm


RoHS
 COMPLIANT
 2002/95/EC
Optional screw lead and basic step

Screw diameter (in)	Screw diameter (mm)	Lead (in)	Lead (mm)	@1.8°Step (mm)	@0.9°Step (mm)
0.375	9.525	0.025	0.635	0.003	0.0016
0.375	9.525	0.050	1.27	0.006	0.0032
0.375	9.525	0.063	1.6002	0.008	0.0040
0.375	9.525	0.083	2.1082	0.010	0.0053
0.375	9.525	0.100	2.54	0.012	0.0064
0.375	9.525	0.125	3.175	0.015	0.0079
0.375	9.525	0.167	4.2418	0.021	0.0106
0.375	9.525	0.200	5.08	0.025	0.0127
0.375	9.525	0.250	6.35	0.031	0.0159
0.375	9.525	0.375	9.525	0.047	0.0238
0.375	9.525	0.384	9.7536	0.048	0.0244
0.375	9.525	0.500	12.7	0.063	0.0318
0.375	9.525	1.000	25.4	0.127	0.0635
0.625	15.875	0.100	2.54	0.012	0.0060
0.625	15.875	0.125	3.175	0.015	0.0075
0.625	15.875	0.200	5.08	0.025	0.0125
0.625	15.875	0.250	6.35	0.031	0.0155
0.625	15.875	1.000	25.4	0.127	0.0635

57mm Screw the hybrid stepping motor

Motor outline (mm)
Connecting shaft


86mm Screw the hybrid stepping motor

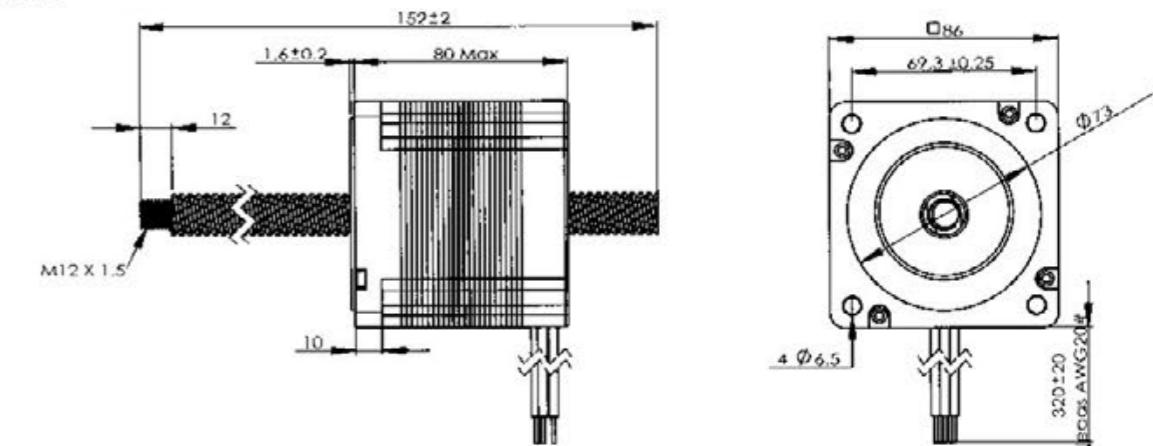
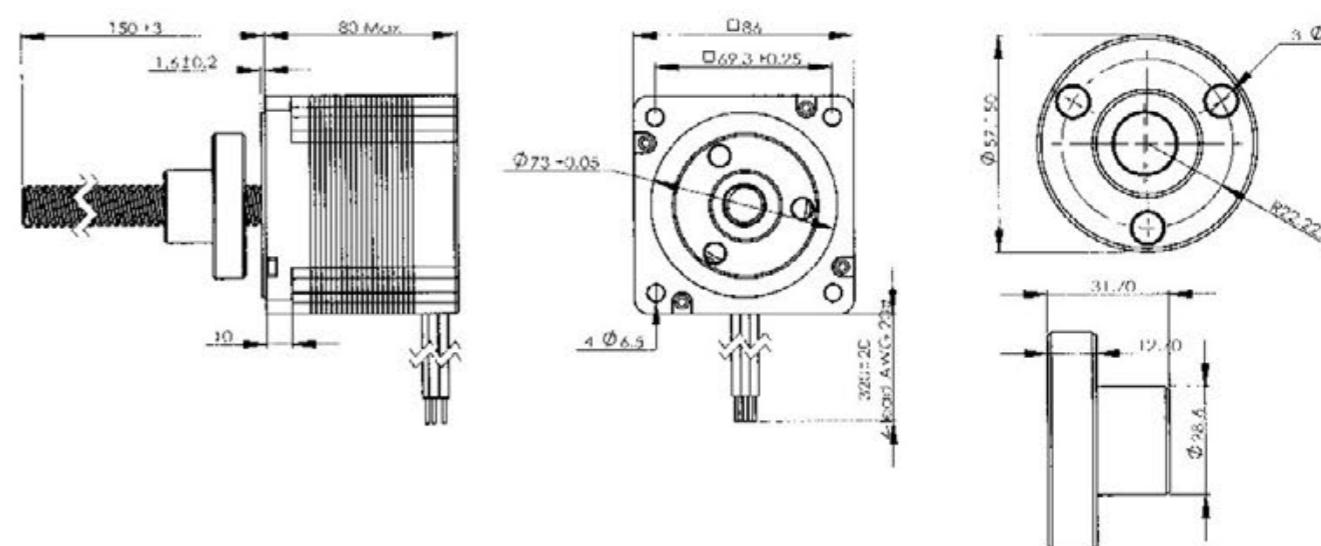
0.00508mm 0.127mm

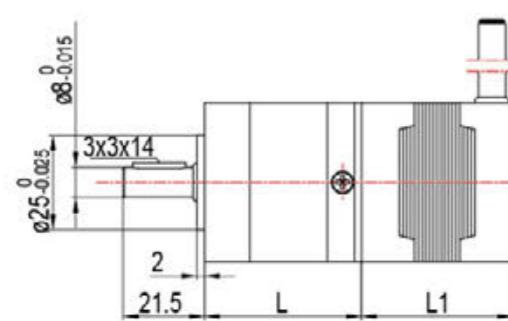
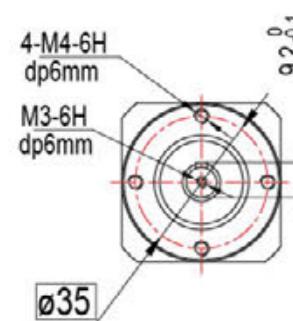
Motor specifications

Motor type	Phase current	Resistance per phase	Each phase inductance	PIN number	Motor length
HL-86S348014-013	0.3A	9.2Ω ± 10%	51mH ± 20%	4	80mm
HL-86S348014-050	0.5A	1.6Ω ± 10%	8.8mH ± 20%	4	80mm
HL-86S348014-055	0.55A	0.52Ω ± 10%	2.9mH ± 20%	4	80mm

**Optional screw lead and basic step**

Screw diameter (in)	Screw diameter (mm)	Lead (in)	Lead (mm)	@1.8°Step (mm)	@0.9°Step (mm)
0.625	15.875	0.100	2.54	0.012	0.0051
0.625	15.875	0.125	3.175	0.015	0.0064
0.625	15.875	0.200	5.08	0.025	0.0102
0.625	15.875	0.250	6.35	0.031	0.0127
0.625	15.875	0.1000	2.54	0.127	0.0508

Motor outline (mm)
Connecting shaft
**External driv**

Mechanical Dimensions**Motor Specification**

Motor Type	Phases	VDC	ohm	A	rpm	mm	KG	Nm	Nm
HB42K5402	2	5.7	6.3	0.9	48	0.36	0.3	0.45	
BL420502440	3	24	0.8		4000	60	0.45	0.125	0.15

Mechanical Performance

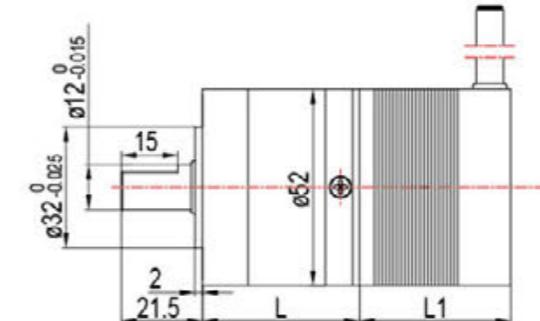
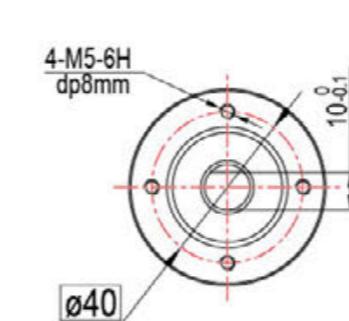
Reduce Gearmotor	Output Torque (Nm)								
	1:5	1:10	1:15	1:20	1:25	1:30	1:40	1:50	1:100
PL42TxxxB+HB42K5402	1.425	2.85	4	5.4	6.75	8.1	10.8	13.5	15
PL42TxxxB+BL420502440	0.6	1.2	1.65	2.25	2.8	3.37	4.5	5.63	11.3

Electrical and Environmental

1. Insulation Class: B
2. Dielectric Strength: 500VDC, 1 minute
3. Insulation Resistance: > 100Mohm, 500VDC
4. Comply with CE
5. Comply with RoHS

Type Selection

According to the specific application to select the motor performance and speed reducer, the selection is for reference only

Mechanical Dimensions**Motor Specification**

Motor Type	Phases	VDC	A	A	rpm	mm	KG	Nm	Nm
BL52012126	4	12	1.25	2.5	600	93	0.75	0.191	0.382

Mechanical Performance

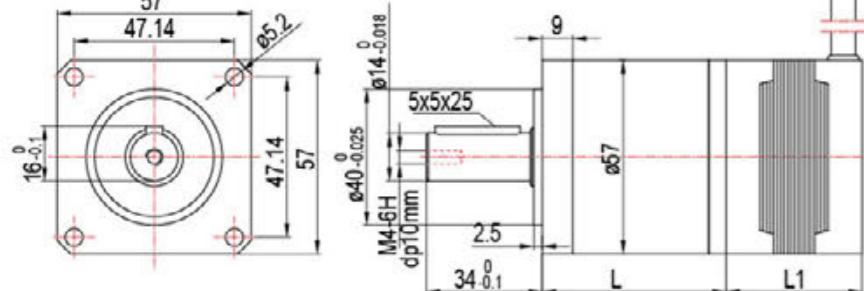
Reduce Gearmotor	Output Torque (Nm)								
	1:5	1:10	1:15	1:20	1:25	1:30	1:40	1:50	1:100
PL42TxxxB+BL52012126	0.9	1.8	2.58	3.43	4.29	5.15	6.87	8.6	15

Electrical and Environmental

1. Insulation Class: B
2. Dielectric Strength: 500VDC, 1 minute
3. Insulation Resistance: > 100Mohm, 500VDC
4. Comply with CE
5. Comply with RoHS

Type Selection

According to the specific application to select the motor performance and speed reducer, the selection is for reference only

Mechanical Dimensions**Motor Specification**

Motor Type	Phases	VDC	ohm	A	rpm	mm	KG	Nm	Nm
HB57K4406	2	10.2	3.6	1.4	4000	55	0.73	0.8	1.4
BL570903640	3	36	0.7			72	0.75	0.22	0.7

Mechanical Performance

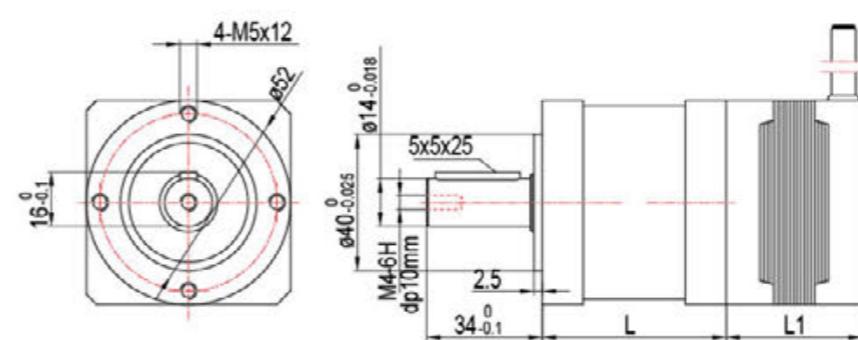
Reduce Gearmotor	Output Torque (Nm)								
	1:5	1:10	1:15	1:20	1:25	1:30	1:40	1:50	1:100
PL57TxxxA+HB57K4406	3.8	6.0	10.8	14.4	18	21.6	25	25	25
PL57TxxxA+BL570903640	1.0	2.1	2.97	3.96	4.95	5.94	7.92	9.9	19.8

Electrical and Environmental

1. Insulation Class: B
2. Dielectric Strength: 500VDC, 1 minute
3. Insulation Resistance: > 100Mohm, 500VDC
4. Comply with CE
5. Comply with RoHS

Type Selection

According to the specific application to select the motor performance and speed reducer, the selection is for reference only

Mechanical Dimensions**Motor Specification**

Motor Type	Phases	VDC	ohm	A	rpm	mm	KG	Nm	Nm
HB60K4602	2	4.8	2.4	2.0	4000	65	0.73	0.89	1.56
BL601502430	3	24	0.7		3000	100	1.1	0.4	0.8

Mechanical Performance

Reduce Gearmotor	Output Torque (Nm)								
	1:5	1:10	1:15	1:20	1:25	1:30	1:40	1:50	1:100
PL60TxxxB+HB60K4602	4.2	6.0	12	16	20	24	25	25	25
PL60TxxxB+BL601502430	1.9	3.8	5.4	7.2	9	10.8	14.4	18	25

Electrical and Environmental

1. Insulation Class: B
2. Dielectric Strength: 500VDC, 1 minute
3. Insulation Resistance: > 100Mohm, 500VDC
4. Comply with CE
5. Comply with RoHS

Type Selection

According to the specific application to select the motor performance and speed reducer, the selection is for reference only

36 BLDC

General Specifications

Item	Specification
Winding type	Star/Delta
Hall effect angle	120 degree electric angle/120
Shaft runout	0.025mm
Radial play	0.06mm/50g
End play	0.08mm/50g
Max radial force	28N/20mm from the flange
Max axial force	10N
Insulation class	Class B
IP class	IP40
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩ min 500VDC



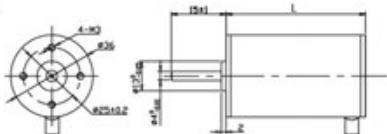
Electric Connection

Lead No.	Lead color	Lead gauge	Function	Description
1	Red	UL3266/28AWG	VCC+5VDC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	SIGNAL OF HALL A
4	Green		HALL B	SIGNAL OF HALL B
5	Blue		HALL C	SIGNAL OF HALL C
1	Yellow		PHASE U	MOTOR PHASE U
2	Green	UL3266/26AWG	PHASE V	MOTOR PHASE V
3	Blue		PHASE W	MOTOR PHASE W

Electrical Specification

Model	No.of Phase	Rated Voltage	Rated Speed	Rated Torque	Rated Power	Mass	Body length
		VDC	rpm	g.cm	W	Kg	mm
G36BLDC-001A	3	12	4000	120	5	0.15	40
G36BLDC-002A	3	24	5000	190	10	0.15	40
G36BLDC-003A	3	12	6000	120	8	0.18	50
G36BLDC-004A	3	24	6000	230	15	0.18	50
G36BLDC-005A	3	12	8000	240	20	0.22	60
G36BLDC-006A	3	24	8000	300	25	0.22	60

Dimensions diagram



Note: If need special specification, pls contact with us.

42Y BLDC

General Specifications

Item	Specification
Winding type	Star/Delta
Hall effect angle	120 degree electric angle/120
Shaft runout	0.025mm
Radial play	0.06mm/50g
End play	0.08mm/50g
Max radial force	28N/20mm from the flange
Max axial force	15N
Insulation class	Class B
IP class	IP40
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩ min 500VDC



Electric Connection

Lead No.	Lead color	Lead gauge	Function	Description
1	Red	UL3266/28AWG	VCC+5VDC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	SIGNAL OF HALL A
4	Green		HALL B	SIGNAL OF HALL B
5	Blue		HALL C	SIGNAL OF HALL C
1	Yellow		PHASE U	MOTOR PHASE U
2	Green	UL3266/26AWG	PHASE V	MOTOR PHASE V
3	Blue		PHASE W	MOTOR PHASE W

Electrical Specification

Model	No.of Phase	Rated Voltage	Rated Speed	Rated Torque	Rated Power	Mass	Body length
		VDC	rpm	g.cm	W	Kg	mm
G42YBLDC-001A	3	12	4000	240	10	0.20	40
G42YBLDC-002A	3	24	5000	382	20	0.20	40
G42YBLDC-003A	3	12	6000	286	15	0.30	60
G42YBLDC-004A	3	24	6000	477	30	0.30	60
G42YBLDC-005A	3	12	8000	477	25	0.40	80
G42YBLDC-006A	3	24	8000	955	60	0.40	80

Dimensions diagram



Note: If need special specification, pls contact with us.

42 BLDC

General Specifications

Item	Specification
Winding type	Star/Delta
Hall effect angle	120 degree electric angle/120
Shaft runout	0.025mm
Radial play	0.05mm/50g
End play	0.05mm/50g
Max radial force	28N/20mm from the flange
Max axial force	15N
Insulation class	Class B
IP class	IP40
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩ min 500VDC



Electric Connection

Lead No.	Lead color	Lead gauge	Function	Description
1	Red	UL3266/28AWG	VCC+5VDC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	SIGNAL OF HALL A
4	Green		HALL B	SIGNAL OF HALL B
5	Blue		HALL C	SIGNAL OF HALL C
1	Yellow	UL3266/22AWG	PHASE U	MOTOR PHASE U
2	Green		PHASE V	MOTOR PHASE V
3	Blue		PHASE W	MOTOR PHASE W

Electrical Specification

Model	No. of Phase	Rated Voltage	Rated Speed	Rated Torque	Rated Power	Mass	Body length
		VDC	rpm	g.cm	W	Kg	mm
G42BLDC-001A	3	24	4000	625	26	0.25	40
G42BLDC-002A	3	24	4000	1250	52.5	0.35	60
G42BLDC-003A	3	24	4000	1580	77.5	0.45	80
G42BLDC-004A	3	24	4000	2500	105	0.55	100

Dimensions diagram



Note: If need special specification,pls contact with us.

57 BLDC

General Specifications

Item	Specification
Winding type	Star/Delta
Hall effect angle	120 degree electric angle/120
Shaft runout	0.025mm
Radial play	0.05mm/50g
End play	0.04mm/50g
Max radial force	30N/20mm from the flange
Max axial force	20N
Insulation class	Class B
IP class	IP40
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩ min 500VDC



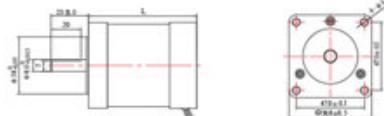
Electric Connection

Lead No.	Lead color	Lead gauge	Function	Description
1	Red	UL3266/28AWG	VCC+5VDC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow		HALL A	SIGNAL OF HALL A
4	Green		HALL B	SIGNAL OF HALL B
5	Blue		HALL C	SIGNAL OF HALL C
1	Yellow	UL3266/22AWG	PHASE U	MOTOR PHASE U
2	Green		PHASE V	MOTOR PHASE V
3	Blue		PHASE W	MOTOR PHASE W

Electrical Specification

Model	No. of Phase	Rated Voltage	Rated Speed	Rated Torque	Rated Power	Mass	Body length
		VDC	rpm	N.m	W	Kg	mm
G57BLDC-001A	3	36	4000	0.055	23	0.30	45
G57BLDC-002A	3	36	4000	0.08	50	0.35	55
G57BLDC-003A	3	36	6000	0.22	92	0.50	75
G57BLDC-004A	3	24	4000	0.32	133	0.65	95
G57BLDC-005A	3	24	4000	0.43	180	0.80	115

Dimensions diagram



Note: If need special specification,pls contact with us.

90 BLDC

General Specifications

Item	Specification
Winding type	Star/Delta
120 degree electric angle/120°	
Shaft runout	0.03mm
Radial play	0.03mm/50g
End play	0.03mm/50g
Max radial force	35N/20mm from the flange
Max axial force	30N
Insulation class	Class B
IP class	IP40
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩ min 500VDC



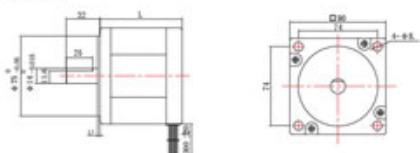
Electric Connection

Lead No.	Lead color	Lead gauge	Function	Description
1	Red		VCC+5VDC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Yellow	UL3266/28AWG	HALL A	SIGNAL OF HALL A
4	Green		HALL B	SIGNAL OF HALL B
5	Blue		HALL C	SIGNAL OF HALL C
1	Yellow	UL3266/16AWG	PHASE U	MOTOR PHASE U
2	Green		PHASE V	MOTOR PHASE V
3	Blue		PHASE W	MOTOR PHASE W

Electrical Specification

Model	No.of Phase	Rated Voltage	Rated Speed	Rated Torque	Rated Power	Mass	Body length
		VDC	rpm	N.m	W	Kg	mm
G90BLDC-001A	3	48	3000	0.67	200	2.1	73
G90BLDC-002A	3	48	3000	1.34	400	3.3	1.3
G90BLDC-003A	3	48	3000	2.01	600	4.5	133

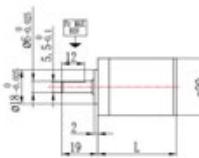
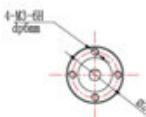
Dimensions diagram



Output flange: Aluminium,Type standard(Below Drawing)

Housing: Steel

Input flange: Aluminium,Type standard(Below Drawing)

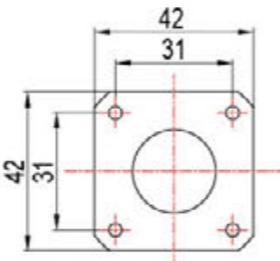
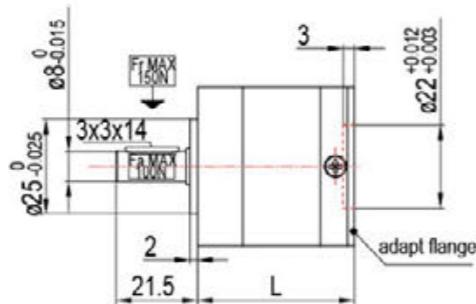
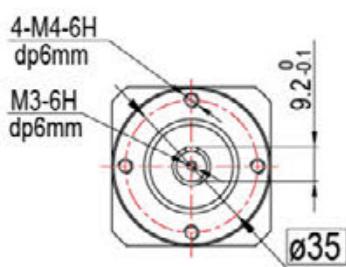


Technical and Performance Data		1-stage	2-stage	3-stage	4-stage
Ratio:		4, 5	16, 20	50, 100	200, 500
L:	mm	24	30	36	42
Rated load:	Nm	0.2	0.4	0.6	0.8
Max load:	Nm	0.4	0.8	1.8	3.0
Efficiency:	%	80	70	60	50
Backlash:	arcmin	≤90	≤120	≤120	≤150
Weight:	g	80	90	110	120
Storage temperature:	°C			-30~+60	
Storage humidity:	%			~80	
Running environment temperature:	°C			-10~+90	
Rated input speed:	rpm			3000	
Max input speed:	rpm			5000	
Protect class:	IP			44	
Lubrication:				life grease lubrication	
Noise:	dB			≤55	
Service life:	h			~1,000	

Output flange: Aluminium, Type standard(Below Drawing)

Housing: Steel

Input flange: Aluminium, Type standard(Below Drawing)

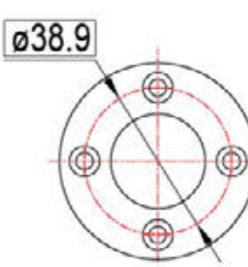
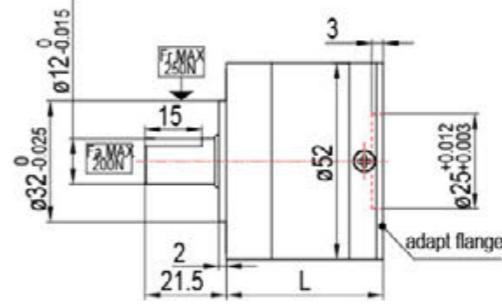
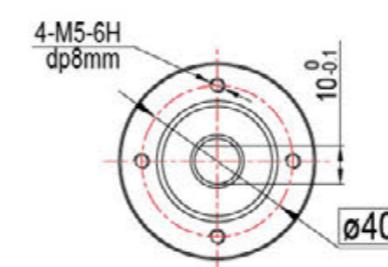


Technical and Performance Data		1-stage	2-stage
Ratio:		5, 10	15,20,25,30,40,50,100
L:	mm	42	52
Rated load:	Nm	3.5	15
Max load:	Nm	6	25
Efficiency:	%	95	90
Backlash:	arcmin	≤15	≤25
Weight:	KG	0.4	0.6
Storage temperature:	°C	-30~+60	
Storage humidity:	%	~80	
Running environment temperature:	°C	-10~+90	
Rated input speed:	rpm	3000	
Max input speed:	rpm	5000	
Protect class:	IP	65	
Lubrication:		life grease lubrication	
Noise:	dB	≤45	
Service life:	h	~8,000	

Output flange: Aluminium, Type standard(Below Drawing)

Housing: Steel

Input flange: Aluminium, Type standard(Below Drawing)

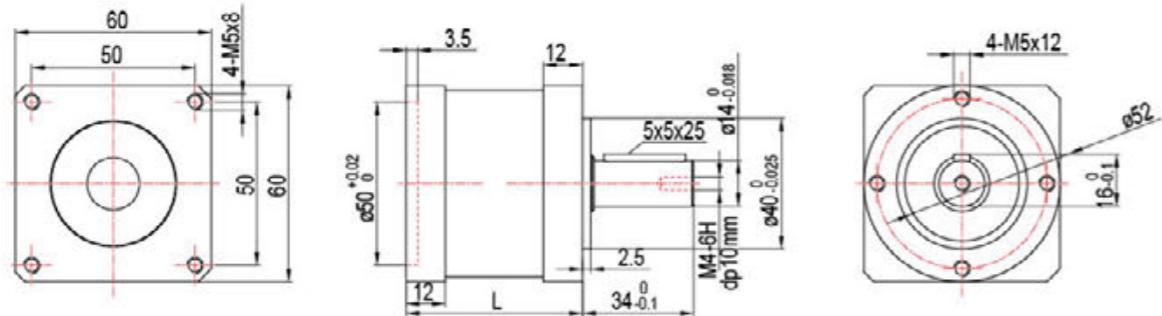


Technical and Performance Data		1-stage	2-stage
Ratio:		5, 10	15,20,25,30,40,50,100
L:	mm	43	53
Rated load:	Nm	3.5	15
Max load:	Nm	6	25
Efficiency:	%	95	90
Backlash:	arcmin	≤15	≤25
Weight:	KG	0.6	0.8
Storage temperature:	°C	-30~+60	
Storage humidity:	%	~80	
Running environment temperature:	°C	-10~+90	
Rated input speed:	rpm	3000	
Max input speed:	rpm	5000	
Protect class:	IP	65	
Lubrication:		life grease lubrication	
Noise:	dB	≤45	
Service life:	h	~8,000	

Output flange: Aluminium, Type standard(Below Drawing)

Housing: Steel

Input flange: Aluminium, Type standard(Below Drawing)

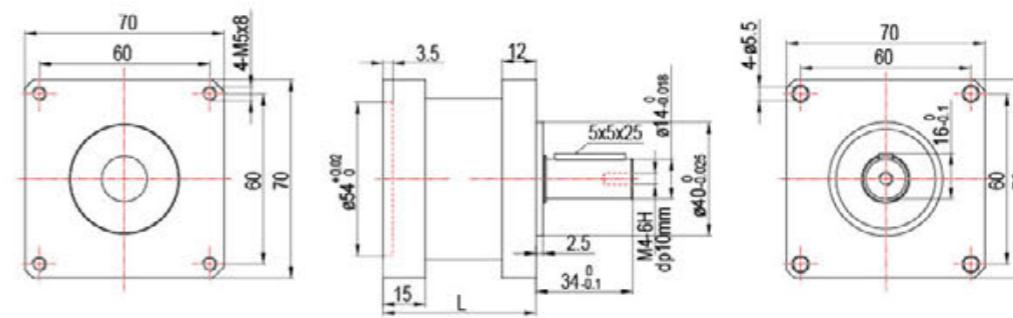


Technical and Performance Data		1-stage	2-stage
Ratio:		5, 10	15, 20, 25, 30, 40, 50, 100
L:	mm	53	70
Rated load:	Nm	6	25
Max load:	Nm	12	40
Efficiency:	%	95	90
Backlash:	arcmin	≤15	≤25
Weight:	KG	0.9	1.2
Storage temperature:	°C	-30~+60	
Storage humidity:	%	~80	
Running environment temperature:	°C	-10~+90	
Rated input speed:	rpm	3000	
Max input speed:	rpm	5000	
Protect class:	IP	65	
Lubrication:		life grease lubrication	
Noise:	dB	≤45	
Service life:	h	~8,000	

Output flange: Aluminium, Type standard(Below Drawing)

Housing: Steel

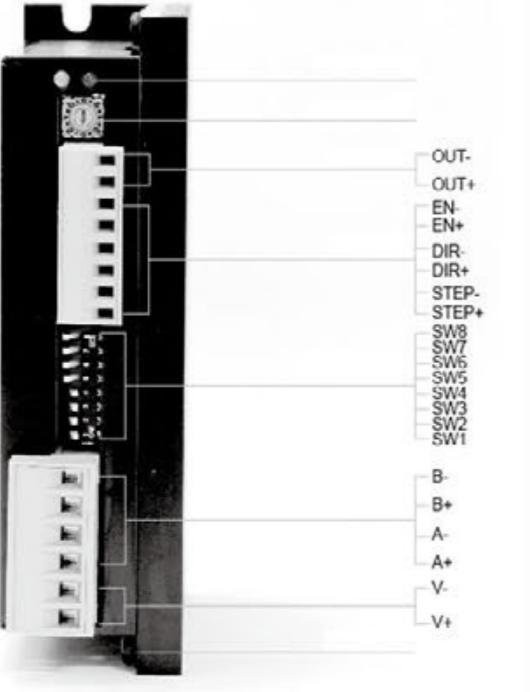
Input flange: Aluminium, Type standard(Below Drawing)

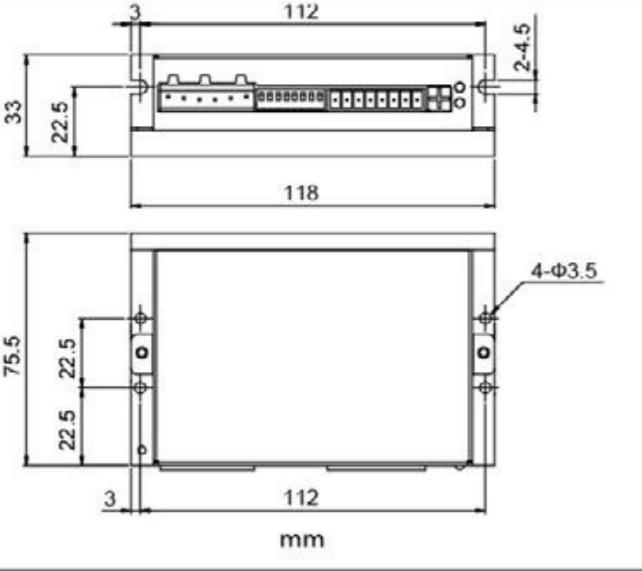


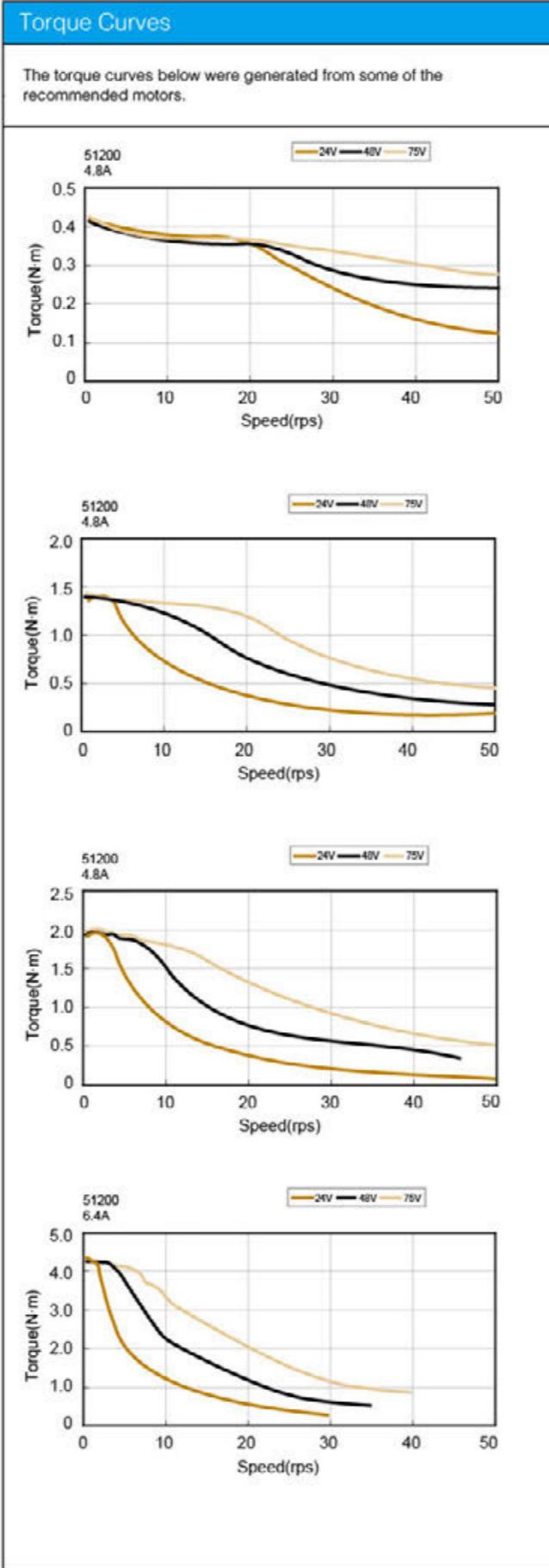
Technical and Performance Data		1-stage	2-stage
Ratio:		5, 10	15, 20, 25, 30, 40, 50, 100
L:	mm	53	70
Rated load:	Nm	6	25
Max load:	Nm	12	40
Efficiency:	%	95	90
Backlash:	arcmin	≤15	≤25
Weight:	KG	1.0	1.3
Storage temperature:	°C	-30~+60	
Storage humidity:	%	~80	
Running environment temperature:	°C	-10~+90	
Rated input speed:	rpm	3000	
Max input speed:	rpm	5000	
Protect class:	IP	65	
Lubrication:		life grease lubrication	
Noise:	dB	≤45	
Service life:	h	~8,000	

Data Sheet

Description
series drive is a cost-effective, high performance 2 phase step drive. The design is based on advanced digital current control technology, and features high torque, low noise, and low vibration. The running current and microstep resolution are switch selectable.

Connections – Inputs & Outputs


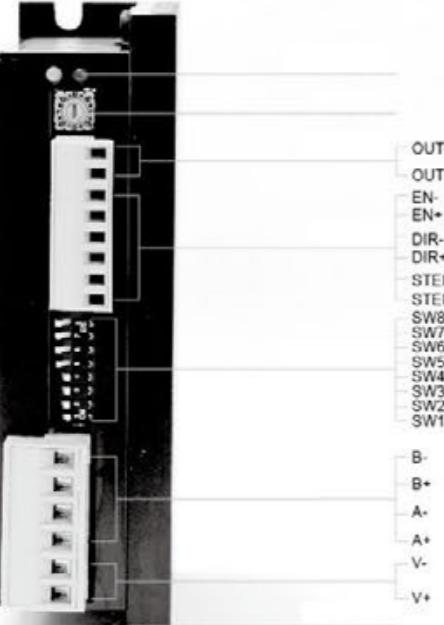
Mechanical Drawings


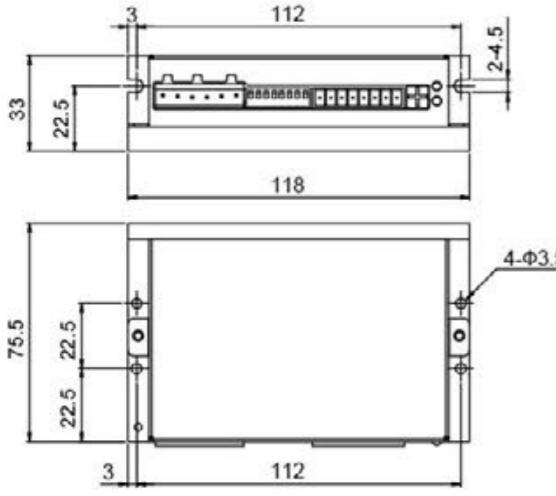


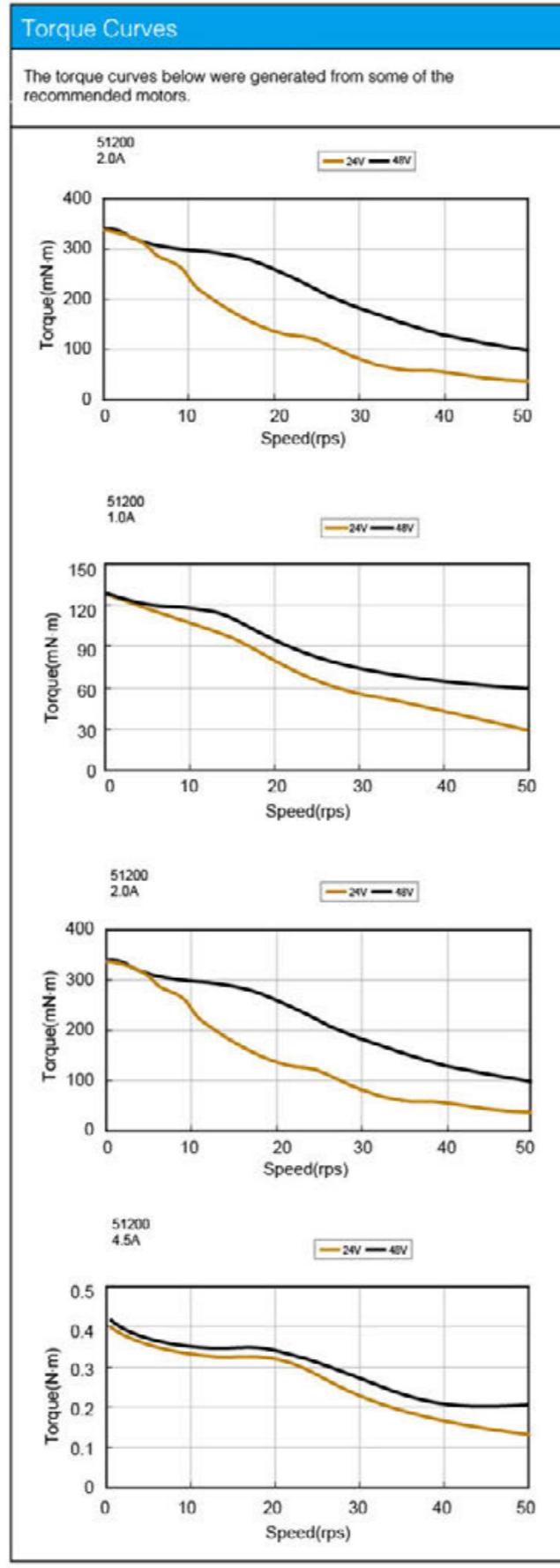
Specifications								
Electrical Specifications								
Parameter	Min.	Typ.	Max.	Unit				
Power Supply	24	-	75	VDC				
Output Current (Peak)	2.4	-	7.8	amps				
STEP/DIR Input Signal Average Forward Current	6	10	15	mA				
Step Frequency	2	-	2M	Hz				
STEP Minimum Pulse Width Hi and Low	250	-	-	ns				
DIR Minimum Pulse Width	50	-	-	us				
Under Voltage Protection	-	20	-	VDC				
Over Voltage Protection	-	85	-	VDC				
STEP/DIR Input Signal Voltage	4.0	-	28	VDC				
Driver Initialization Time	-	-	2.5	S				
Environmental Specifications								
Heat Sinking Method	Natural cooling or fan-forced cooling							
Surrounding Air Conditions	Avoid dust, oily mist and corrosive air							
Operating Temperature	0 – 40 °C (32 – 104°F)							
Maximum Ambient Humidity	90%/non-condensing							
Shock	5.9m/s ² maximum							
Storage Temperature	-10 – 70 °C (14 – 158°F)							
Switch Selections								
Running current, idle current, microstep resolution and self test are selectable by a switch or a combination of on/off settings of 2 or more switches.								
2.4A	ON	ON	ON					
3.2A	OFF	ON	ON					
4A	ON	OFF	ON					
4.8A	OFF	OFF	ON					
5.6A	ON	ON	OFF					
6.4A	OFF	ON	OFF					
7A	ON	OFF	OFF					
7.8A	OFF	OFF	OFF					
(step/rev)	SW5	SW6	SW7					
400	ON	ON	ON					
800	OFF	ON	ON					
1600	ON	OFF	ON					
3200	OFF	OFF	ON					
6400	ON	ON	OFF					
12800	OFF	ON	OFF					
25600	ON	OFF	OFF					
51200	OFF	OFF	OFF					
Idle Current (SW4) – ON for 50% of running value, OFF for 90%								
Self test (SW8) – ON for self test, OFF for none								

Data Sheet

Description
series drive is a cost-effective, high performance 2 phase step drive. The design is based on advanced digital current control technology, and features high torque, low noise, and low vibration. The running current and microstep resolution are switch selectable.

Connections – Inputs & Outputs


Mechanical Drawings




Specifications								
Electrical Specifications								
Parameter	Min.	Typ.	Max.	Unit				
Power Supply	24	-	48	VDC				
Output Current (Peak)	1	-	4.5	amps				
STEP/DIR Input Signal Average Forward Current	6	10	15	mA				
Step Frequency	2	-	2M	Hz				
STEP Minimum Pulse Width Hi and Low	250	-	-	ns				
DIR Minimum Pulse Width	50	-	-	us				
Under Voltage Protection	-	20	-	VDC				
Over Voltage Protection	-	60	-	VDC				
STEP/DIR Input Signal Voltage	4.0	-	28	VDC				
Driver Initialization Time	-	-	2.5	S				
Environmental Specifications								
Heat Sinking Method	Natural cooling or fan-forced cooling							
Surrounding Air Conditions	Avoid dust, oily mist and corrosive air							
Operating Temperature	0 – 40 °C (32 – 104 °F)							
Maximum Ambient Humidity	90% non-condensing							
Shock	5.9m/s² maximum							
Storage Temperature	-10 – 70 °C (14 – 158 °F)							
Switch Selections								
Running current, idle current, microstep resolution and self test are selectable by a switch or a combination of on/off settings of 2 or more switches.								
(step/rev)	SW5	SW6	SW7					
400	ON	ON	ON					
800	OFF	ON	ON					
1600	ON	OFF	ON					
3200	OFF	OFF	ON					
6400	ON	ON	OFF					
12800	OFF	ON	OFF					
25600	ON	OFF	OFF					
51200	OFF	OFF	OFF					
Idle Current (SW4) – ON for 50% of running value, OFF for 90%								
Self test (SW8) – ON for self test, OFF for none								