



New Ideas in Motion

Creating a new century of manufacturing —hand-in-hand with our customers



Total support of your “Motion Requirements”

In compliance with requirements in various industries, applications, feature and functions, Shinano Kenshi offers optimal Motor Solution in terms of supplying system module inclusive controller, driver and mechanical design. In addition Shinano Kenshi complies with the OEM and EMS requirement with consistent scheme of Development-Production taking an advantage of experienced total manufacturing technology.



Industrial
machinery



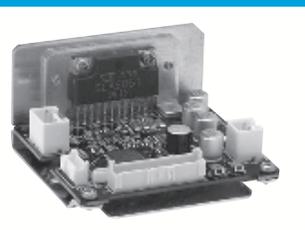
Appliances
&
Housing
equipment



Medical
devices



Nursing
equipment



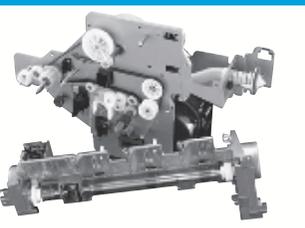
Driver & Controller

Motor control technology
System control technology



Motor

Brushless DC Motor
Stepping Motor
In-vehicle Brushless DC Motor



Mechanical module

Gear box / Gear Assembly
Fan
Brake / Clutch etc.

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2 Phase Hybrid Stepping Motor

35D SERIES

□ 35mm



TORQUE RANGE

STEP ANGLE	SIZE	WINDINGS	MODEL	TORQUE (mN·m) *FREQUENCY at 1,000pps																																																																																																																																																																																																	
				0	50	100	200	300	400	600	800	1000	1500	2000																																																																																																																																																																																							
1.8°	□35mm	NEMA14	Bipolar	35D1	0	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000

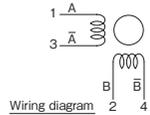
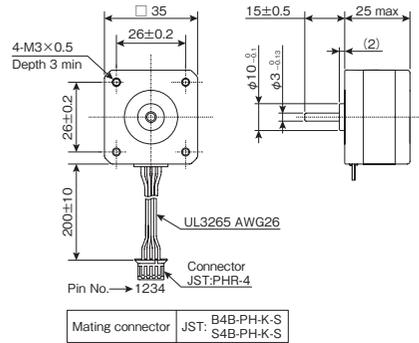
1.8°

Bipolar

SPECIFICATIONS

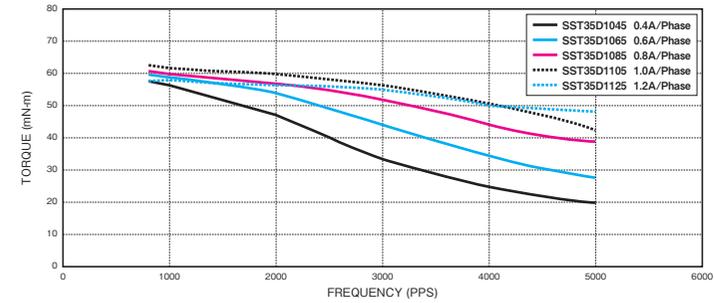
MODEL	STEP ANGLE	VOLTAGE	CURRENT	RESISTANCE	INDUCTANCE	HOLDING TORQUE	ROTOR INERTIA	NUMBER OF LEADS	MASS	LENGTH
	Deg.									
SST35D1045	1.8	7.5	0.4	18.8	15.0	75.5	27	4	110	25max
SST35D1065	1.8	5.5	0.6	9.1	7.3	78.5	27	4	110	25max
SST35D1085	1.8	4.2	0.8	5.2	4.1	80.4	27	4	110	25max
SST35D1105	1.8	3.6	1.0	3.6	3.0	82.4	27	4	110	25max
SST35D1125	1.8	2.6	1.2	2.2	1.8	76.5	27	4	110	25max

DIMENSIONS [EXAMPLE]



PULL OUT TORQUE CURVE

SST35D1XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

2 Phase Hybrid Stepping Motor

43D SERIES

□42mm



1.8°

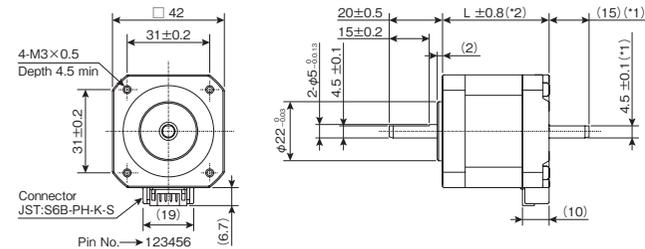
Unipolar

SPECIFICATIONS

MODEL	STEP ANGLE Deg.	VOLTAGE V	CURRENT A/φ	RESISTANCE Ω/φ	INDUCTANCE mH/φ	HOLDING TORQUE mN·m	ROTOR INERTIA g·cm ²	NUMBER OF PINS Pin	MASS g	LENGTH mm
SST43D104X	1.8	9.6	0.4	24.0	16.0	215	33	6	230	34
SST43D106X	1.8	6.9	0.6	11.5	8.1	226	33	6	230	34
SST43D108X	1.8	5.1	0.8	6.4	4.9	233	33	6	230	34
SST43D110X	1.8	4.2	1.0	4.2	3.3	238	33	6	230	34
SST43D112X	1.8	3.2	1.2	2.7	2.3	237	33	6	230	34
SST43D115X	1.8	2.7	1.5	1.8	1.5	235	33	6	230	34
SST43D204X	1.8	12.0	0.4	30.0	24.0	314	56	6	290	40
SST43D206X	1.8	7.2	0.6	12.0	11.8	322	56	6	290	40
SST43D208X	1.8	5.5	0.8	6.9	7.1	321	56	6	290	40
SST43D210X	1.8	4.8	1.0	4.8	4.8	338	56	6	290	40
SST43D212X	1.8	4.0	1.2	3.3	3.6	341	56	6	290	40
SST43D214X	1.8	3.2	1.4	2.3	2.5	329	56	6	290	40
SST43D216X	1.8	3.0	1.6	1.9	1.8	313	56	6	290	40

↑ Last Digit 0:Single Shaft 1:Double Shaft

DIMENSIONS [EXAMPLE]

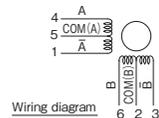


Mating connector
 Housing JST:PHR-6
 Contact JST:SPH-002T-P0.5S

*1 Dimensions apply to double shaft models.
 *2 Available motor length 32mm~54.5mm

Available connectors

Manufacturer	Connector	Housing	Contact
AMP	292250-6	179228-6	179227-1
MOLEX	53325-0660	51090-0600	50212-08100



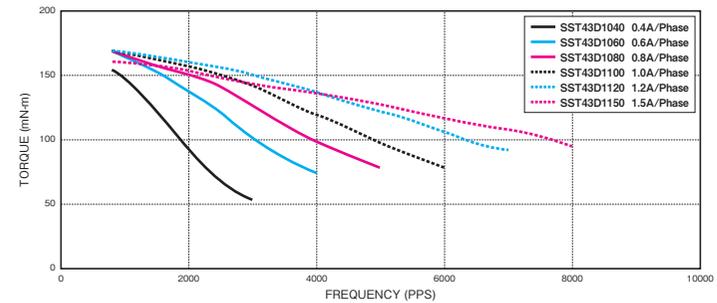
Lead wire type is available.

TORQUE RANGE

STEP ANGLE	SIZE	WINDINGS	MODEL	TORQUE (mN·m) *FREQUENCY at 1,000rpm											
				0	50	100	200	300	400	600	800	1000	1500	2000	
1.8°	□42mm	NEMA17	Unipolar	43D1	[Torque range bars for model 43D1]										
				43D2	[Torque range bars for model 43D2]										

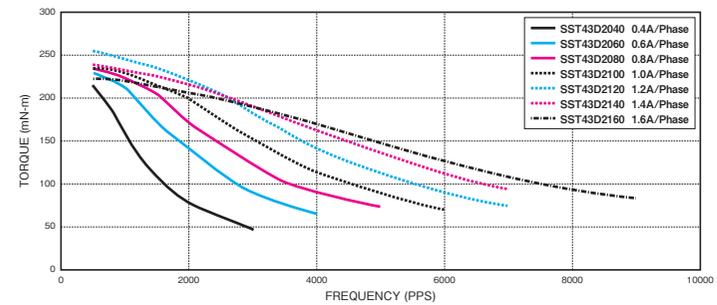
PULL OUT TORQUE CURVE

SST43D1XXX



DRIVER : Chopper
 SUPPLY VOLTAGE : DC24V
 EXCITING MODE = 2 Phase
 MOUNTING : With rubber damper

SST43D2XXX



DRIVER : Chopper
 SUPPLY VOLTAGE : DC24V
 EXCITING MODE = 2 Phase
 MOUNTING : With rubber damper

i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

2 Phase Hybrid Stepping Motor

45D SERIES

42mm

High Holding Torque Model

1.8°

Unipolar



TORQUE RANGE

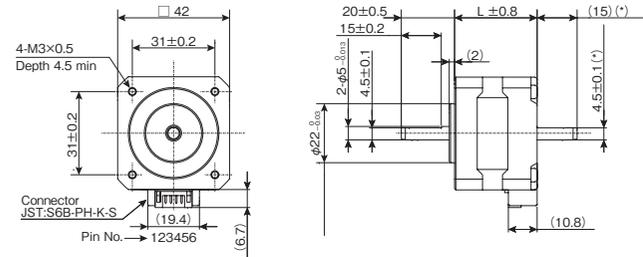
STEP ANGLE	SIZE	WINDINGS	MODEL	TORQUE (mN·m) *FREQUENCY at 1,000pps																
				0	50	100	200	300	400	600	800	1000	1500	2000						
1.8°	42mm	NEMA17	Unipolar	45D0	[Torque range bars]															
				45D1	[Torque range bars]															
				45D2	[Torque range bars]															

SPECIFICATIONS

MODEL	STEP ANGLE Deg.	VOLTAGE V	CURRENT A/φ	RESISTANCE Ω/φ	INDUCTANCE mH/φ	HOLDING TORQUE mN·m	ROTOR INERTIA g·cm ²	NUMBER OF PINS Pin	MASS g	LENGTH mm
SST45D003X	1.8	13.2	0.3	44	23.6	221	45	6	200	32
SST45D005X	1.8	7.3	0.5	14.5	8.6	221	45	6	200	32
SST45D007X	1.8	4.8	0.7	6.8	4.6	221	45	6	200	32
SST45D010X	1.8	3.3	1.0	3.3	2.3	226	45	6	200	32
SST45D012X	1.8	3.1	1.2	2.6	1.8	237	45	6	200	32
SST45D015X	1.8	2.1	1.5	1.4	1.0	226	45	6	200	32
SST45D103X	1.8	14.7	0.3	49	28	265	56	6	230	35
SST45D105X	1.8	8.3	0.5	16.6	10.5	265	56	6	230	35
SST45D107X	1.8	5.5	0.7	7.8	5.5	268	56	6	230	35
SST45D110X	1.8	3.6	1.0	3.6	2.7	265	56	6	230	35
SST45D112X	1.8	3.3	1.2	2.8	2.1	284	56	6	230	35
SST45D115X	1.8	2.4	1.5	1.6	1.2	265	56	6	230	35
SST45D203X	1.8	18.9	0.3	63	41.5	361	82	6	310	42.5
SST45D205X	1.8	10.8	0.5	21.5	15.5	361	82	6	310	42.5
SST45D207X	1.8	7.1	0.7	10.2	8.0	361	82	6	310	42.5
SST45D210X	1.8	4.6	1.0	4.6	4.0	378	82	6	310	42.5
SST45D212X	1.8	4.2	1.2	3.5	3.2	392	82	6	310	42.5
SST45D215X	1.8	3	1.5	2.0	1.8	382	82	6	310	42.5

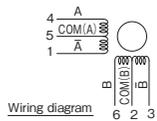
↑ Last Digit 0:Single Shaft 1:Double Shaft

DIMENSIONS [EXAMPLE]



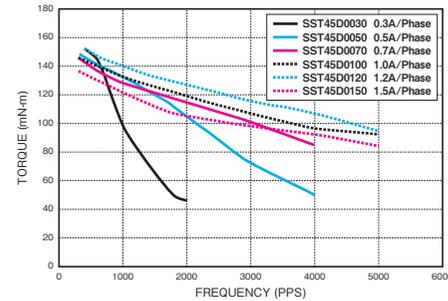
Mating connector
Housing JST-PHR-6
Contact JST-SPH-002T-PO.5S

* Dimensions apply to double shaft models.



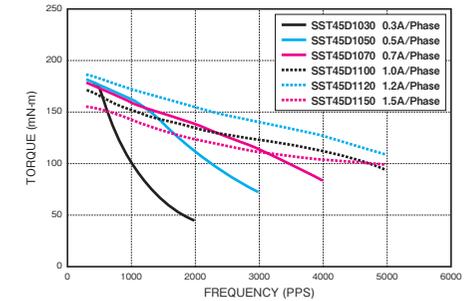
PULL OUT TORQUE CURVE

SST45D0XXX



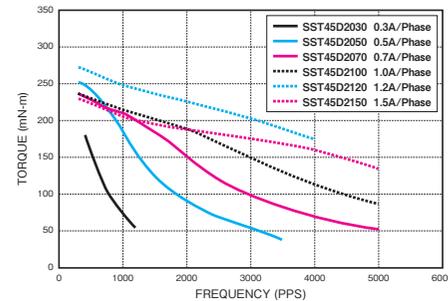
DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST45D1XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST45D2XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

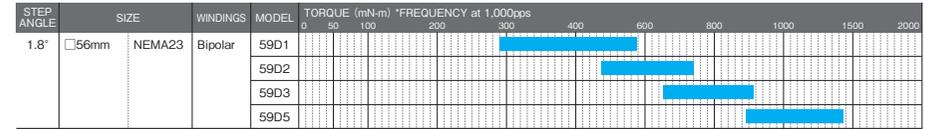
2 Phase Hybrid Stepping Motor

59D SERIES

□ 56mm



TORQUE RANGE



1.8°

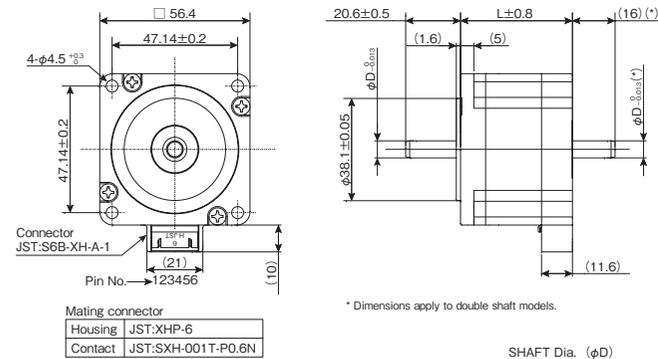
Bipolar

SPECIFICATIONS

MODEL	STEP ANGLE Deg.	VOLTAGE V	CURRENT A/φ	RESISTANCE Ω/φ	INDUCTANCE mH/φ	HOLDING TORQUE mN·m	ROTOR INERTIA g·cm ²	NUMBER OF PINS Pin	MASS kg	LENGTH mm
SST59D110X	1.8	3.3	1.4	2.35	7.5	870	145	4	0.51	42
SST59D115X	1.8	2.2	2.1	1.05	3.4	870	145	4	0.51	42
SST59D120X	1.8	1.8	2.8	0.65	2.0	880	145	4	0.51	42
SST59D125X	1.8	1.5	3.5	0.43	1.3	890	145	4	0.51	42
SST59D130X	1.8	1.3	4.2	0.31	0.9	870	145	4	0.51	42
SST59D210X	1.8	3.9	1.4	2.75	9.2	1200	210	4	0.62	48.5
SST59D215X	1.8	2.5	2.1	1.20	4.1	1200	210	4	0.62	48.5
SST59D220X	1.8	2.0	2.8	0.70	2.4	1220	210	4	0.62	48.5
SST59D225X	1.8	1.7	3.5	0.48	1.6	1240	210	4	0.62	48.5
SST59D230X	1.8	1.4	4.2	0.34	1.1	1200	210	4	0.62	48.5
SST59D310X	1.8	4.4	1.4	3.15	11.1	1410	245	4	0.71	54.5
SST59D315X	1.8	2.9	2.1	1.40	5.1	1410	245	4	0.71	54.5
SST59D320X	1.8	2.4	2.8	0.85	3.0	1440	245	4	0.71	54.5
SST59D325X	1.8	1.9	3.5	0.55	2.0	1460	245	4	0.71	54.5
SST59D330X	1.8	1.7	4.2	0.41	1.3	1410	245	4	0.71	54.5
SST59D510X	1.8	6.7	1.4	4.80	19	2400	470	4	1.11	77.5
SST59D515X	1.8	4.4	2.1	2.10	8.4	2400	470	4	1.11	77.5
SST59D520X	1.8	3.5	2.8	1.25	4.9	2440	470	4	1.11	77.5
SST59D525X	1.8	3.0	3.5	0.85	3.3	2480	470	4	1.11	77.5
SST59D530X	1.8	2.5	4.2	0.60	2.2	2400	470	4	1.11	77.5

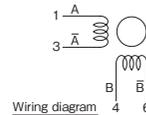
↳ Last Digit 5:Single Shaft 6:Double Shaft

DIMENSIONS [EXAMPLE]



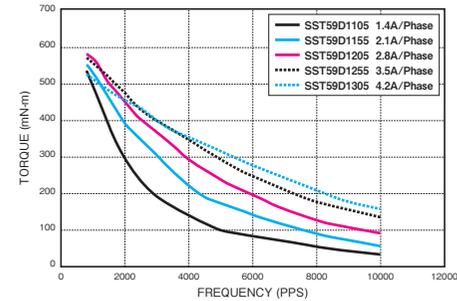
Manufacturer	Connector	Housing	Contact
JST	S06B-XASK-1	XAP-06V-1	SXA-001T-P0.6

MODEL	SHAFT Dia. (φD) φD (mm)
SST59D1XXX	φ6.35
SST59D2XXX	φ6.35
SST59D3XXX	φ6.35
SST59D5XXX	φ8

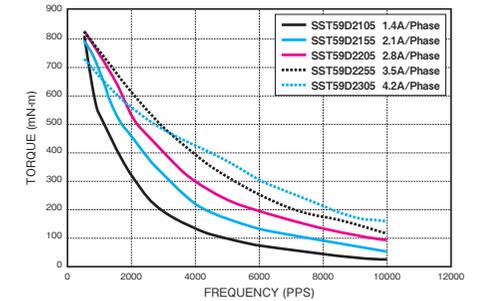


PULL OUT TORQUE CURVE

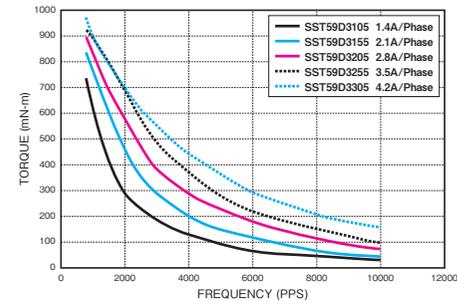
SST59D1XXX



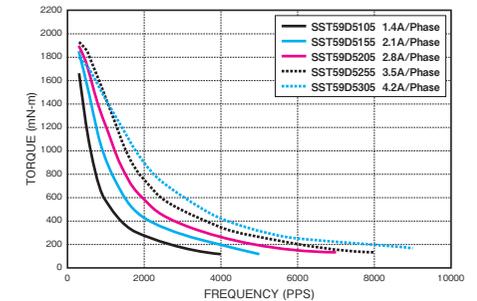
SST59D2XXX



SST59D3XXX



SST59D5XXX



Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

2 Phase Hybrid Stepping Motor

60D SERIES

□ 60mm



1.8°

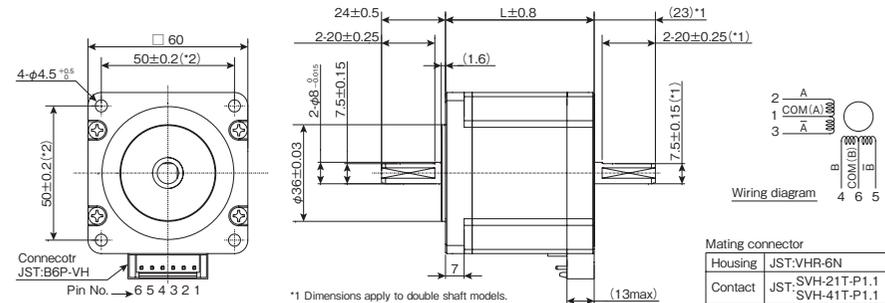
Unipolar

SPECIFICATIONS

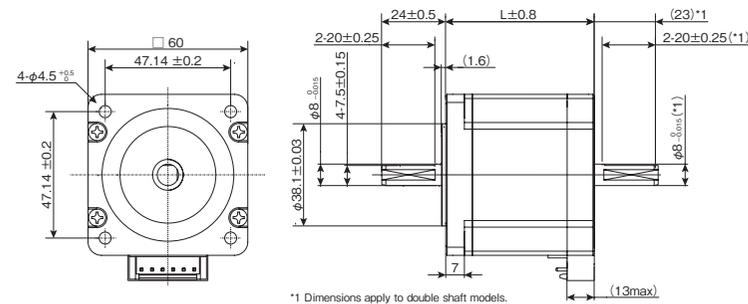
MODEL	STEP ANGLE Deg.	VOLTAGE V	CURRENT A/φ	RESISTANCE Ω/φ	INDUCTANCE mH/φ	HOLDING TORQUE mN·m	ROTOR INERTIA g·cm ²	NUMBER OF PINS Pin	MASS kg	LENGTH mm
SST60D110X	1.8	5.9	1.0	5.92	9.2	850	280	6	0.62	46.3
SST60D120X	1.8	3.0	2.0	1.52	2.5	880	280	6	0.62	46.3
SST60D130X	1.8	2.3	3.0	0.77	1.1	920	280	6	0.62	46.3
SST60D310X	1.8	7.3	1.0	7.33	14.0	1320	440	6	0.88	55.8
SST60D320X	1.8	3.7	2.0	1.87	3.9	1340	440	6	0.88	55.8
SST60D330X	1.8	2.8	3.0	0.94	1.8	1350	440	6	0.88	55.8
SST60D410X	1.8	9.2	1.0	9.20	17.4	1790	590	6	1.02	67.8
SST60D420X	1.8	4.8	2.0	2.40	4.9	1850	590	6	1.02	67.8
SST60D430X	1.8	3.6	3.0	1.19	2.2	1910	590	6	1.02	67.8
SST60D510X	1.8	12.6	1.0	12.60	29.0	2560	920	6	1.40	87.8
SST60D520X	1.8	6.4	2.0	3.20	8.0	2690	920	6	1.40	87.8
SST60D530X	1.8	4.7	3.0	1.55	3.7	2800	920	6	1.40	87.8

↑ Last Digit 0:Single Shaft 1:Double Shaft

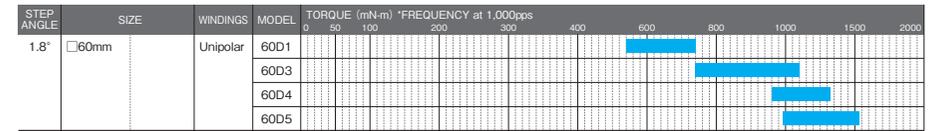
DIMENSIONS [EXAMPLE]



MOUNTING OPTION

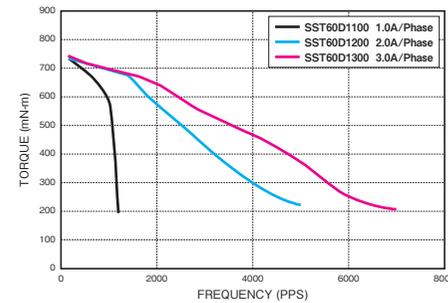


TORQUE RANGE



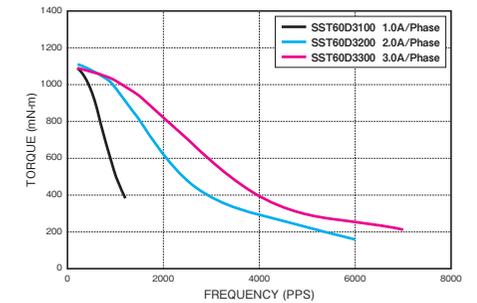
PULL OUT TORQUE CURVE

SST60D1XXX



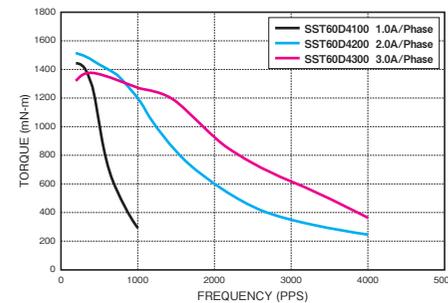
DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST60D3XXX



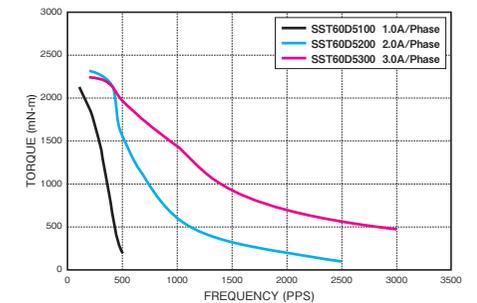
DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST60D4XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST60D5XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

2 Phase Hybrid Stepping Motor

56C SERIES

□ 56mm



TORQUE RANGE

STEP ANGLE	SIZE	WINDINGS	MODEL	TORQUE (mN·m) *FREQUENCY at 1,000pps																
				0	50	100	200	300	400	600	800	1000	1500	2000						
0.9°	□56mm	NEMA23	Unipolar	56C1	[Torque range bars for 56C1]															
				56C3	[Torque range bars for 56C3]															
				56C5	[Torque range bars for 56C5]															

0.9°

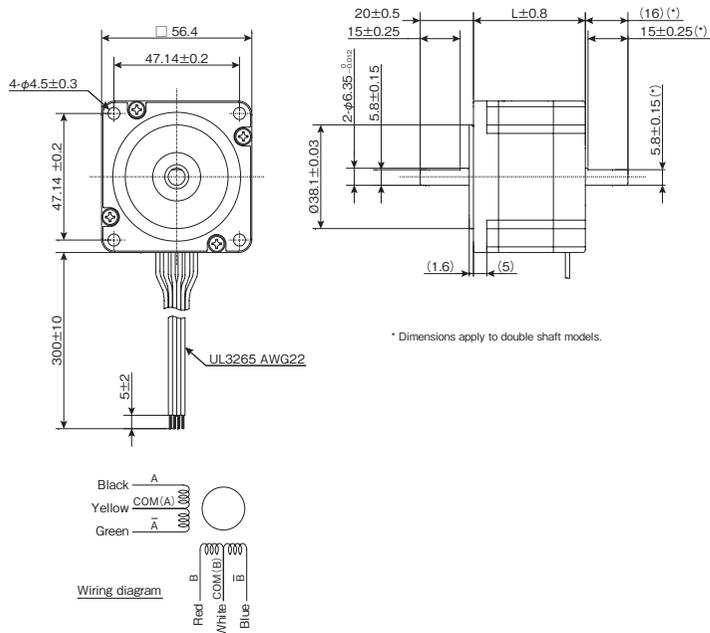
Unipolar

SPECIFICATIONS

MODEL	STEP ANGLE Deg.	VOLTAGE V	CURRENT A/φ	RESISTANCE Ω/φ	INDUCTANCE mH/φ	HOLDING TORQUE mN·m	ROTOR INERTIA g·cm ²	NUMBER OF LEADS Lead	MASS kg	LENGTH mm
SST56C110X	0.9	5.3	1.0	5.3	7.0	460	120	6	0.45	39.4
SST56C120X	0.9	2.6	2.0	1.3	1.8	460	120	6	0.45	39.4
SST56C130X	0.9	1.53	3.0	0.51	0.7	460	120	6	0.45	39.4
SST56C310X	0.9	5.8	1.0	5.8	13.0	1029	245	6	0.71	54.5
SST56C320X	0.9	3.2	2.0	1.6	3.5	1029	245	6	0.71	54.5
SST56C330X	0.9	2.25	3.0	0.75	1.8	1029	245	6	0.71	54.5
SST56C510X	0.9	8.5	1.0	8.5	18.0	1569	470	6	1.10	76
SST56C520X	0.9	4.8	2.0	2.4	5.0	1569	470	6	1.10	76
SST56C530X	0.9	3.3	3.0	1.1	2.5	1569	470	6	1.10	76

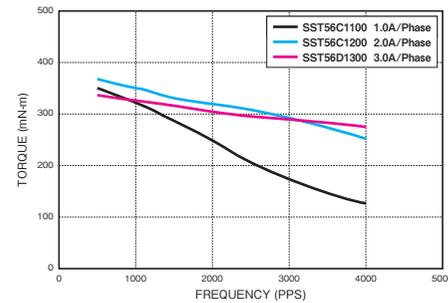
↖ Last Digit 0:Single Shaft 1:Double Shaft

DIMENSIONS [EXAMPLE]



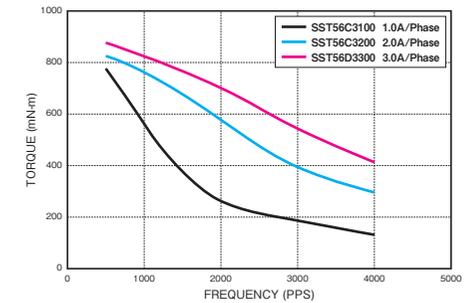
PULL OUT TORQUE CURVE

SST56C1XXX



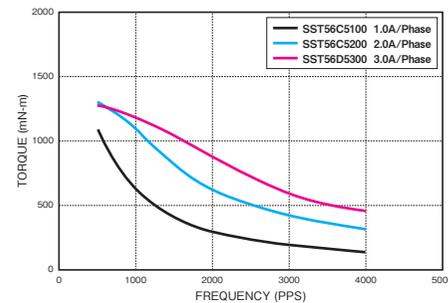
DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST56C3XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

SST56C5XXX



DRIVER : Chopper
SUPPLY VOLTAGE : DC24V
EXCITING MODE = 2 Phase
MOUNTING : With rubber damper

i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

Stepping motor

Outer BLDC

Inner BLDC

Other motor

Motor driver

2 Phase Hybrid Stepping Motor

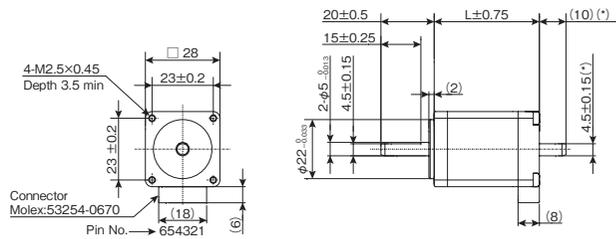
28D SERIES

□28mm

1.8° Unipolar



DIMENSIONS [EXAMPLE]

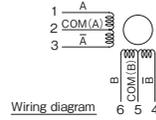


* Dimensions apply to double shaft models.

Mating connector

Housing	Molex:51065-0600
Contact	Molex:50212-8000

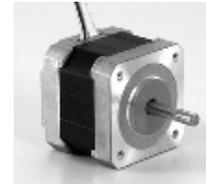
L variation	Motor length (mm)
	31.5
	39.5
	50.5



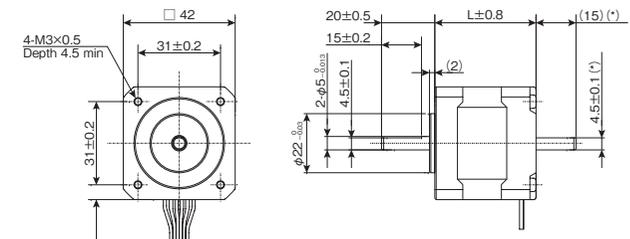
42H SERIES

□42mm

3.75° Unipolar

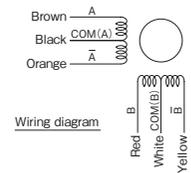


DIMENSIONS [EXAMPLE]



* Dimensions apply to double shaft models.

L variation	Motor length (mm)
	28
	31
	38
	44.5



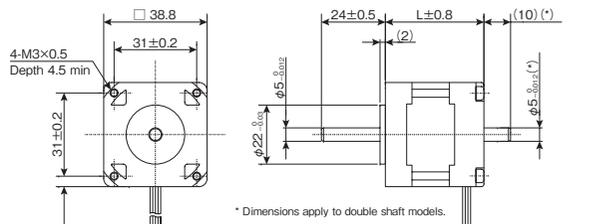
39C SERIES

□39mm

0.9° Unipolar

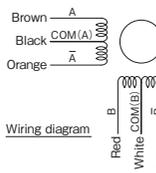


DIMENSIONS [EXAMPLE]



* Dimensions apply to double shaft models.

L variation	Motor length (mm)
	31
	37



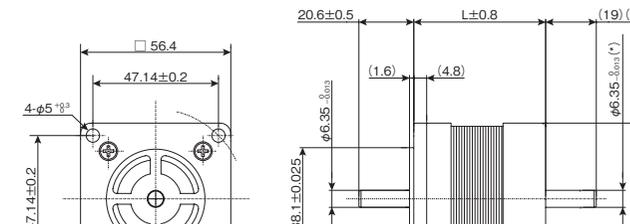
55D SERIES

φ55mm

1.8° Unipolar

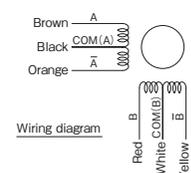


DIMENSIONS [EXAMPLE]



* Dimensions apply to double shaft models.

L variation	Motor length (mm)
	38
	49.5
	55.5



i Available shaft, lead wires, winding, encoder and other customization. Feel free to contact sales office or sales agent.

! Operate the motor keeping the motor surface temperature at 100 deg. C or lower.

Outer Brushless DC Series

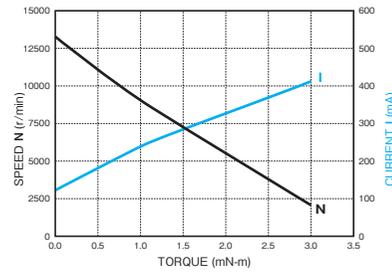
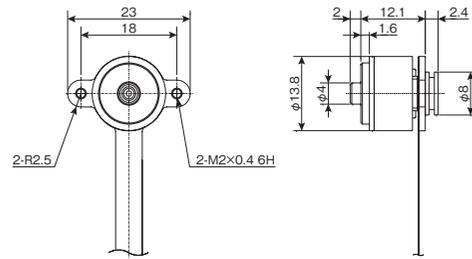


TORQUE RANGE

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED (r/min)	TORQUE (mN-m)
Outer rotor	φ14mm	DR-14312	11000	0.5
Outer rotor	φ20mm	DR-20312	12000	1
Outer rotor	φ25mm	DR-24312	2200	3
Outer rotor	φ30mm	DR-29312	1400	6

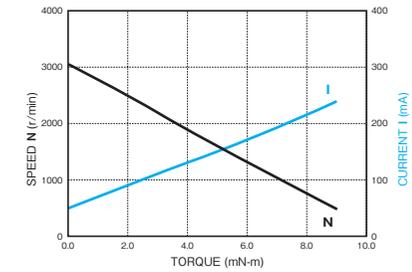
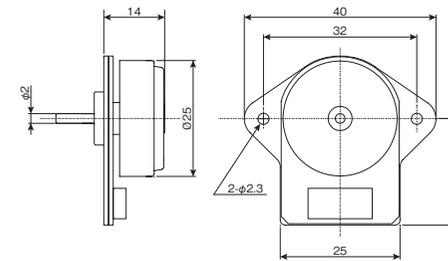
■ DR-14312

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	0.5 mN-m	11000 r/min	180 mA



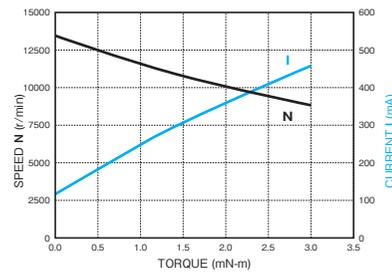
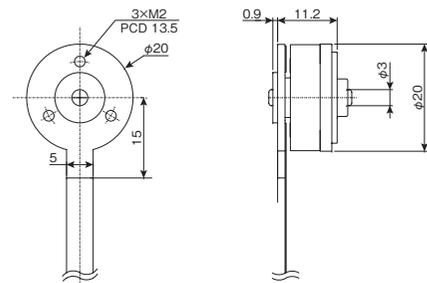
■ DR-24312

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	3 mN-m	2200 r/min	110 mA



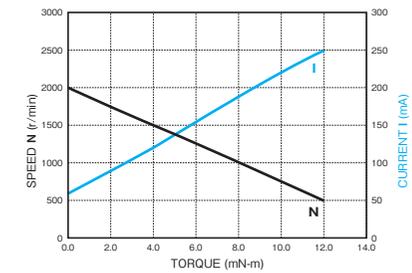
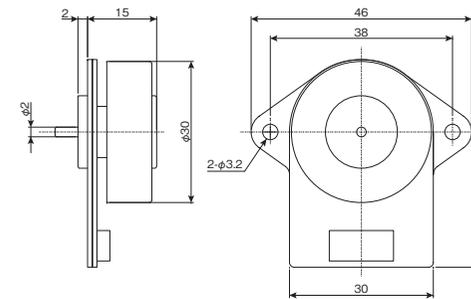
■ DR-20312

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	1 mN-m	12000 r/min	250 mA



■ DR-29312

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	6 mN-m	1400 r/min	160 mA



i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Outer Brushless DC Series

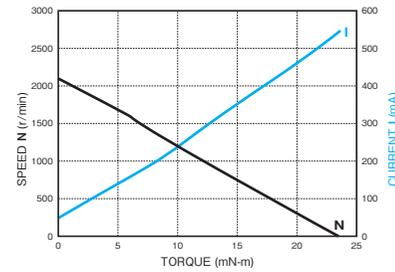
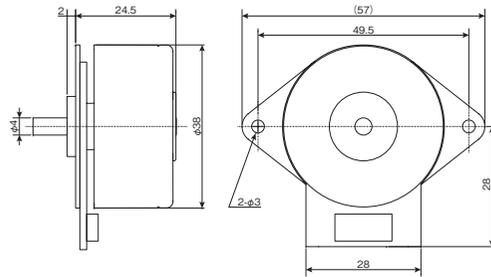


TORQUE RANGE

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED (r/min)	TORQUE (mN-m)
Outer rotor	φ38mm	DR-38312	1200	10
Outer rotor	φ43mm	DR-4316	5400	60
Outer rotor	φ47mm	DR-4734	4000	30
Outer rotor	φ52mm	DR-5238	1800	70

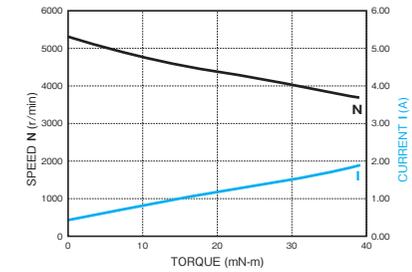
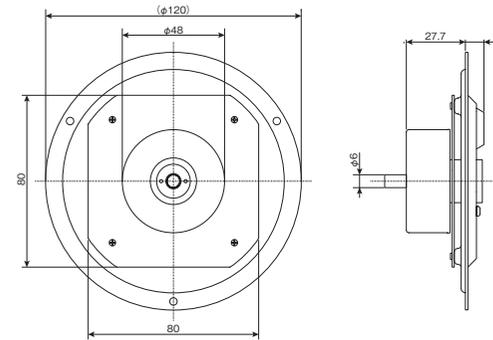
■ DR-38312

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	10 mN-m	1200 r/min	240 mA



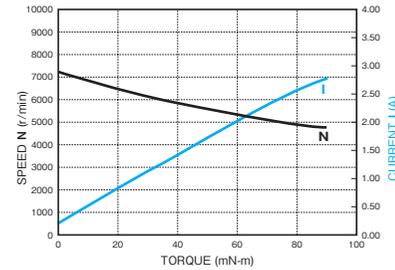
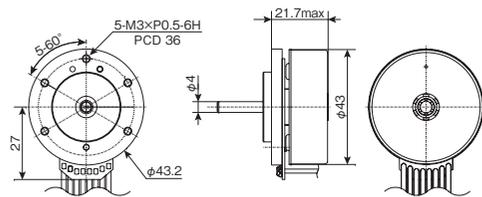
■ DR-4734

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 14 V	30 mN-m	4000 r/min	1.5 A



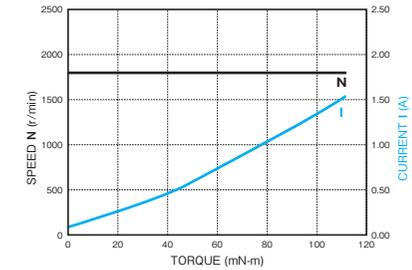
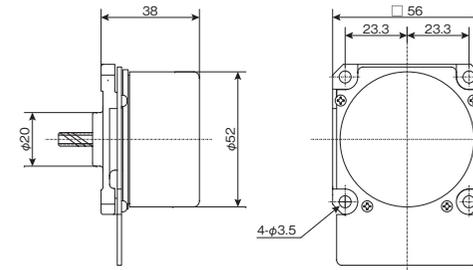
■ DR-4316

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	60 mN-m	5400 r/min	2.0 A



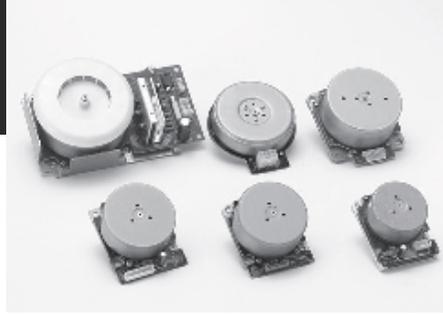
■ DR-5238

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	70 mN-m	1800 r/min	1.0 A



i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Outer Brushless DC Series

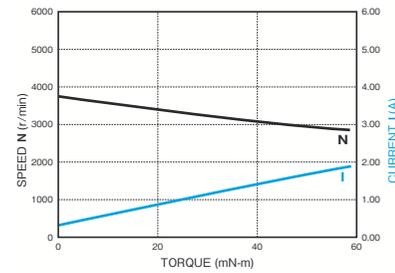
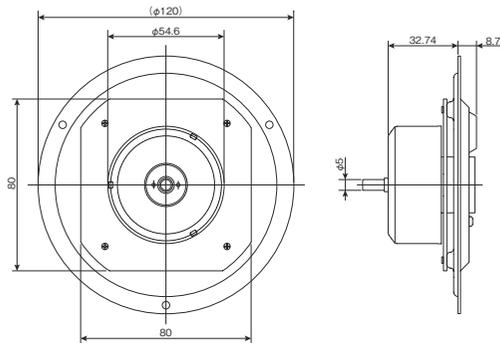


TORQUE RANGE

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED (r/min)	TORQUE (mN-m)					
				0	50	100	150	200	250
Outer rotor	φ55mm	DR-55310	3000	[Torque range bar from 0 to 40]					
Outer rotor	φ55mm	DR-553X	1800	[Torque range bar from 0 to 160]					
Outer rotor	φ63mm	DR-6236	1800	[Torque range bar from 0 to 160]					
Outer rotor	φ63mm	DR-63310	1800	[Torque range bar from 0 to 110]					

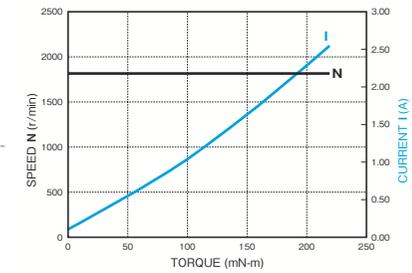
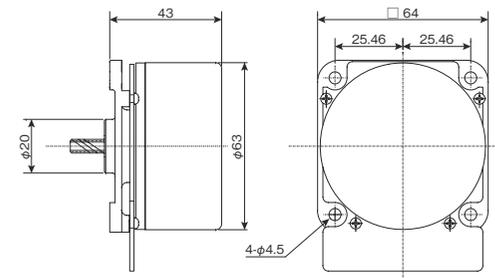
DR-55310

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 14 V	40 mN-m	3000 r/min	1.4 A



DR-6236

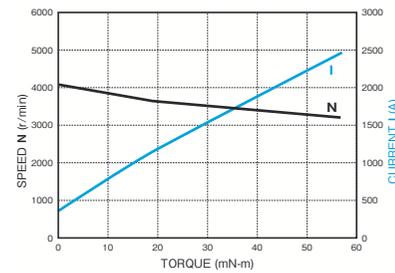
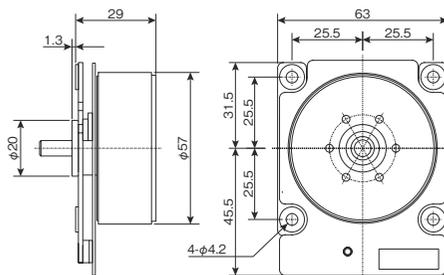
RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	160 mN-m	1800 r/min	2.1 A



DR-553X

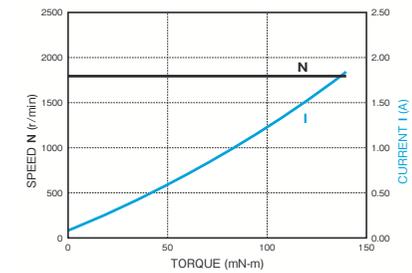
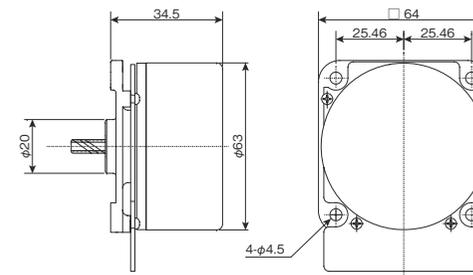


RATED VOLTAGE	MAX TORQUE	RATED SPEED	MAX CURRENT
DC 24 V	160 mN-m	1800 r/min	2.1 A



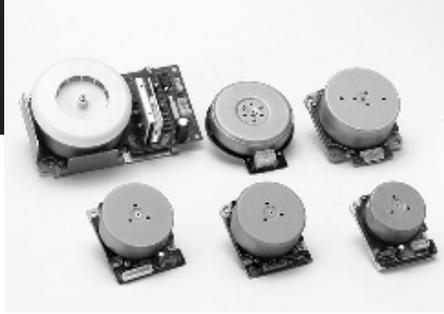
DR-63310

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	110 mN-m	1800 r/min	1.7 A



i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Outer Brushless DC Series

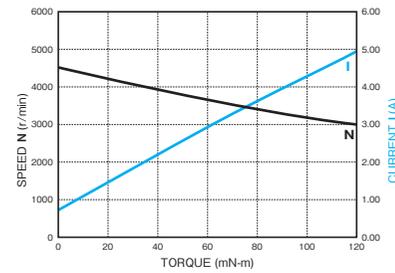
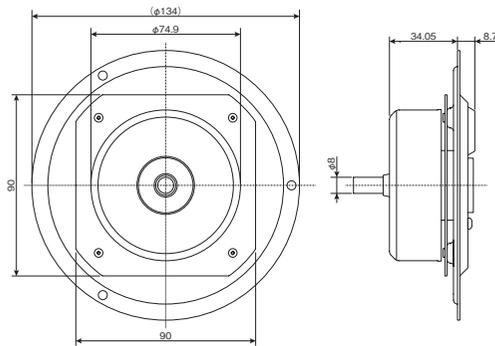


TORQUE RANGE

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED (r/min)	TORQUE (mN-m)					
				0	50	100	200	300	400
Outer rotor	φ75mm	DR-7538	3100	[Bar chart showing torque range for DR-7538]					
Outer rotor	φ76mm	DR-7638	1800	[Bar chart showing torque range for DR-7638]					
Outer rotor	φ82mm	DR-82316	2000	[Bar chart showing torque range for DR-82316]					
Outer rotor	φ87mm	DR-8738	1800	[Bar chart showing torque range for DR-8738]					

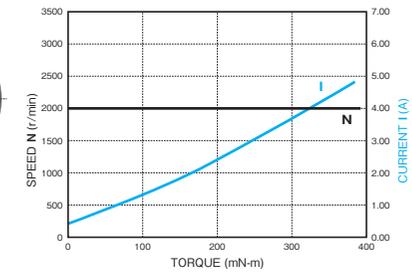
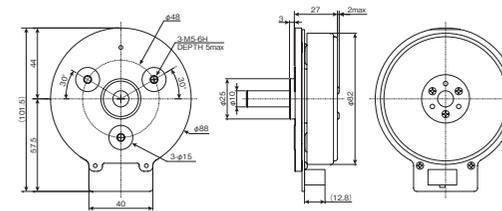
DR-7538

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 12 V	100 mN-m	3100 r/min	4.3 A



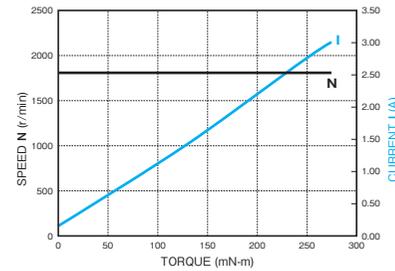
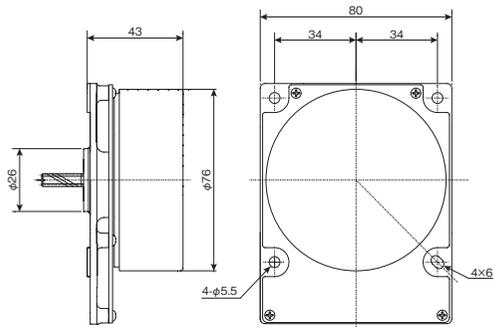
DR-82316

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	230 mN-m	2000 r/min	3.7 A



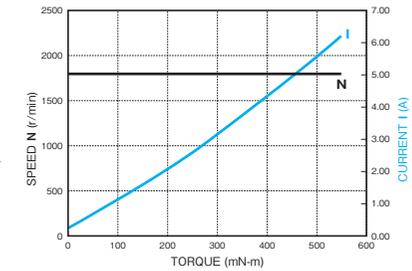
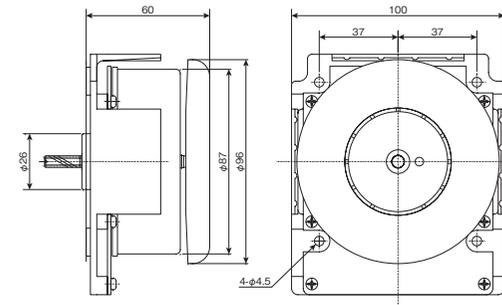
DR-7638

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	250 mN-m	1800 r/min	3.4 A



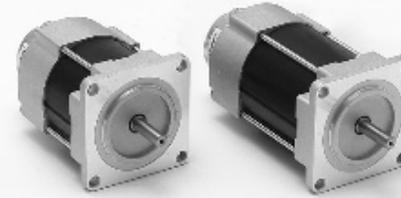
DR-8738

RATED VOLTAGE	RATED TORQUE	RATED SPEED	RATED CURRENT
DC 24 V	440 mN-m	1800 r/min	5.8 A



i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

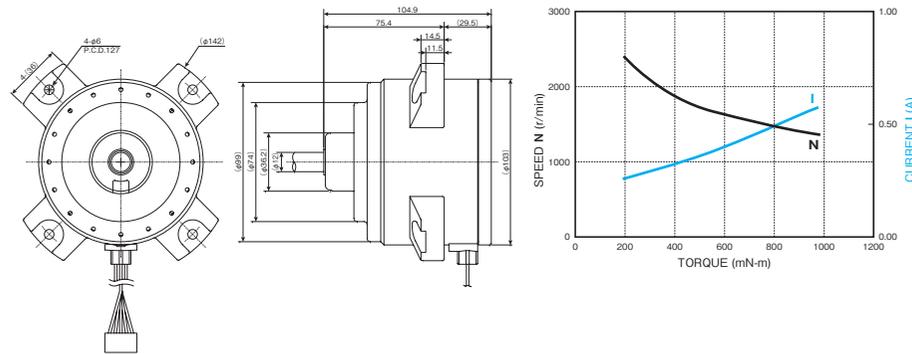
Inner Brushless DC Series



■ MDR-9538 [RESIN MOLD]

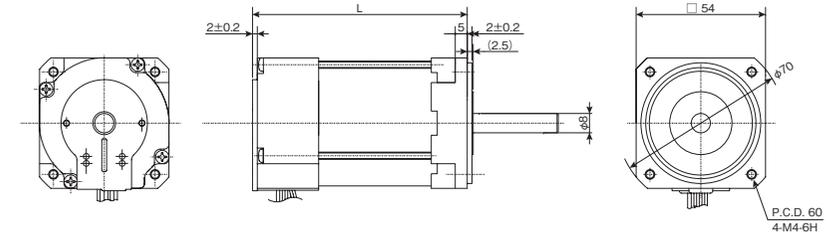
RATED VOLTAGE	MAX TORQUE	RATED SPEED	MAX CURRENT
DC 240~380 V	1000 mN-m	1000 r/min	0.6 A

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED(*)	TORQUE (mN-m)
Inner rotor	φ103mm	MDR-9538	1000	1000

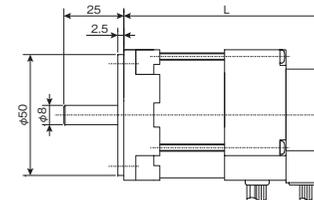


■ LA052

Standard model



Encoder model

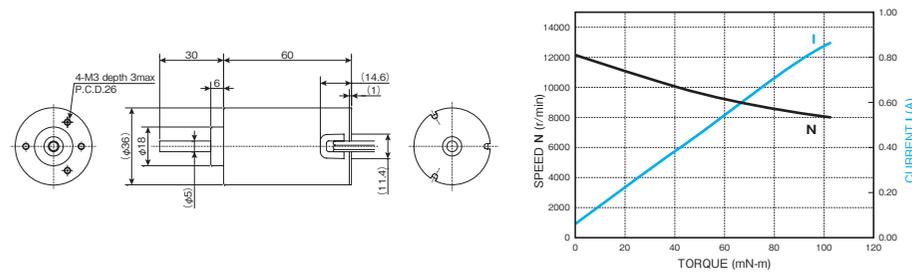


MOTOR TYPE	STANDARD L	ENCODER L
LA052-040E	67.6	86.1
LA052-080E	67.6	86.1
LA052-110E	89.6	106.1

■ LA034

VOLTAGE	MAX OUTPUT	TORQUE	SPEED	CURRENT
DC 140 V	80 W	100 mN-m	7700 r/min	0.9 A

SERIES	MAJOR DIAMETER	MODEL	RATED SPEED(*)	TORQUE (mN-m)
Inner rotor	φ36mm	LA034	7700	100



SPECIFICATIONS

MODEL NAME	RATED POWER	RATED VOLTAGE	RATED SPEED	RATED TORQUE	RATED CURRENT	TORQUE CONSTANT	BACK EMF CONSTANT	PHASE RESISTANCE	PHASE INDUCTANCE	INSTANTANEOUS PEAK TORQUE	MAX. SPEED	ROTOR INERTIA	POWER RATE	MECHANICAL TIME CONSTANT	ELECTRICAL TIME CONSTANT	MASS
	W	V-DC	r/min	N-m	A	N-m/A	V-s/rad	Ω	mH	N-m	r/min	g-cm ²	kW/s	ms	ms	kg
LA052-040E	40	24	3000	0.127	2.5	0.05	5.0×10 ⁻²	1.18	4.4	0.382	5000	110	1.48	5.2	3.7	0.6
		75		0.127	0.9	0.148	14.8×10 ⁻²	11.0	4.2	0.382	5000	110	1.48	5.5	3.8	0.6
LA052-080E	80	24	3000	0.255	4.6	0.059	5.9×10 ⁻²	0.60	1.4	0.765	5000	117	5.56	2.0	2.3	0.6
		75		0.255	1.8	0.191	19.1×10 ⁻²	6.2	14	0.765	5000	117	5.56	2.0	2.3	0.6
LA052-110E	110	75	3000	0.353	2.1	0.196	19.6×10 ⁻²	3.71	9.1	1.059	5000	185	6.74	1.8	2.5	0.8

TYPE	OUTPUT CIRCUIT	RESOLUTION	NUMBER OF CHANNELS	POWER SUPPLY	CONSUMPTION CURRENT	OUTPUT VOLTAGE	PHASE OFFSET	FREQUENCY RESPONSE	OPERATING TEMP. RANGE
		P/R		V-DC	mA	V-DC		kHz	
HALL SENSOR	OPEN COLLECTOR	—	C1, C2, C3	±5%	40 max.	14.4 min. (I sink=15mA max.)	—	—	0°C~60°C (TEMPERATURE INSIDE OF ENCODER)
ENCODER	TTL COMPATIBLE	200, 400	A, B	±5~10%	50 max.	VOH=2.4 min. VOL=0.4 max. (I sink=3.2mA)	a, b, c, d = 90°±45°	20 min.	

*The values above are measured with aluminum mounting plate of 200×200×6mm

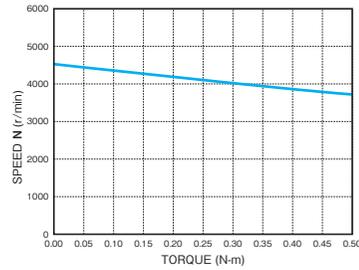
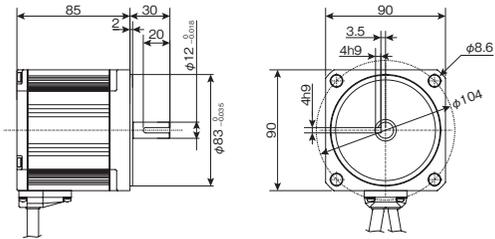
i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Power Brushless Series



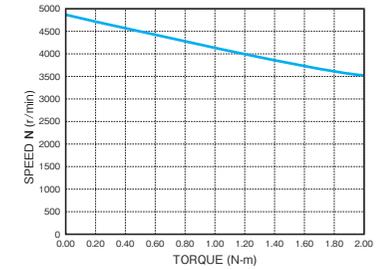
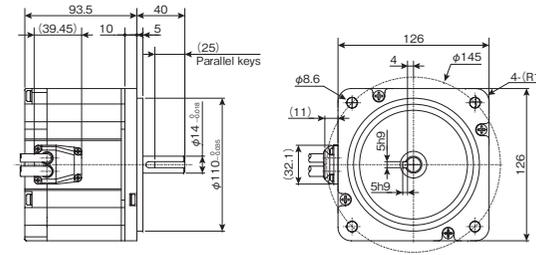
DR-83310 (100W)

RATED VOLTAGE	RATED TORQUE	RATED SPEED
DC 280 V	0.32 N-m	3000 r/min



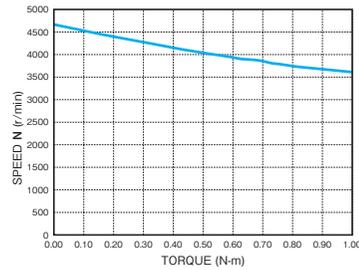
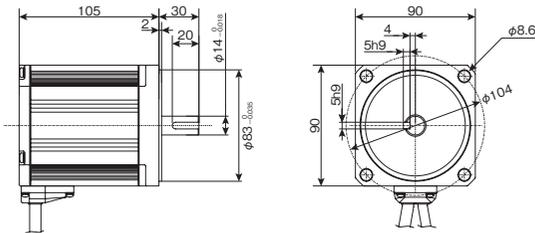
DR-113310 (400W)

RATED VOLTAGE	RATED TORQUE	RATED SPEED
DC 280 V	1.28 N-m	3000 r/min



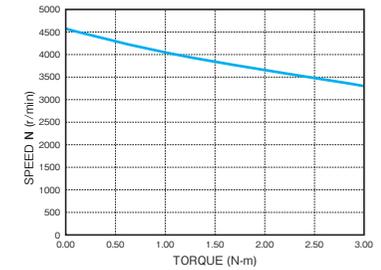
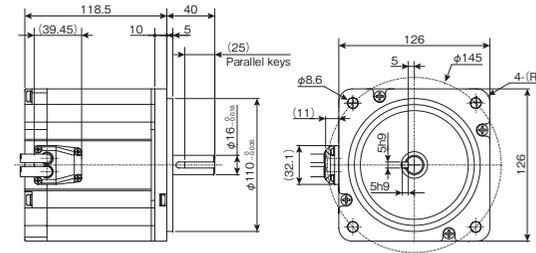
DR-83310 (200W)

RATED VOLTAGE	RATED TORQUE	RATED SPEED
DC 280 V	0.64 N-m	3000 r/min



DR-113310 (750W)

RATED VOLTAGE	RATED TORQUE	RATED SPEED
DC 280 V	2.39 N-m	3000 r/min



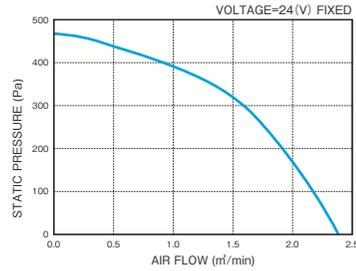
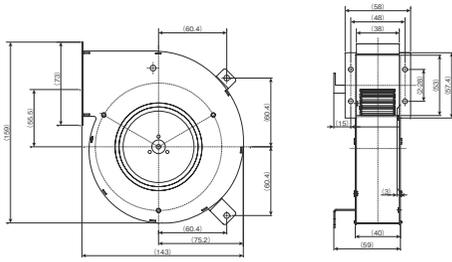
Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Brushless DC Blower Series



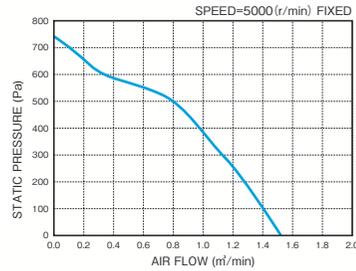
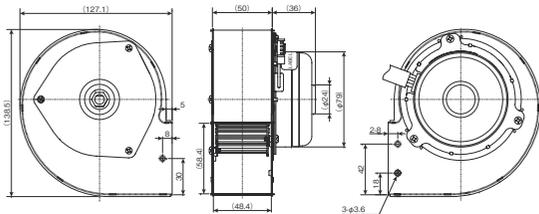
[OUTOR ROTOR] ■ DRF-6338

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
DC 24 V	2.3 m ³ /min	470 Pa	1.3 A	Sirocco Fan



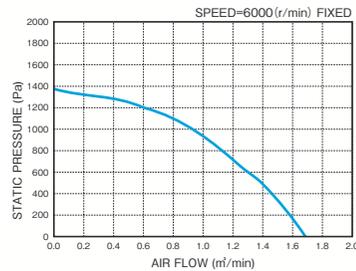
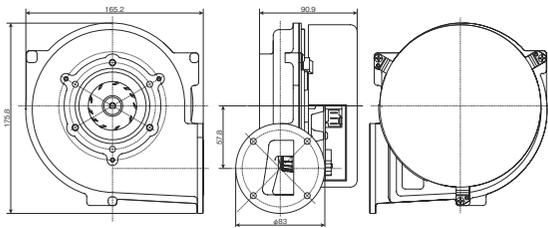
[INNER ROTOR] ■ DRF-738

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
DC 30 V	1.5 m ³ /min	750 Pa	1.4 A	Sirocco Fan



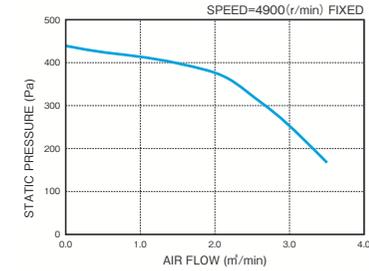
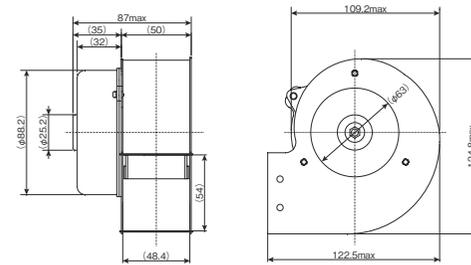
■ DRF-7738 NEW

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
AC 230 V	2.0 m ³ /min	1370 Pa	1.0 A	Turbo Fan



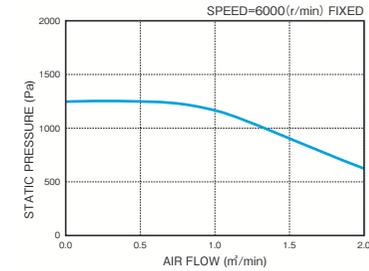
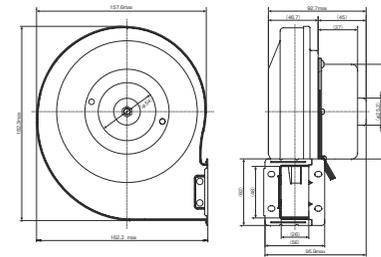
■ DRF-8538 A type

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
DC 120 V	3.5 m ³ /min	440 Pa	1.3 A	Sirocco Fan



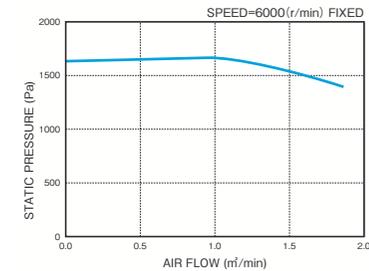
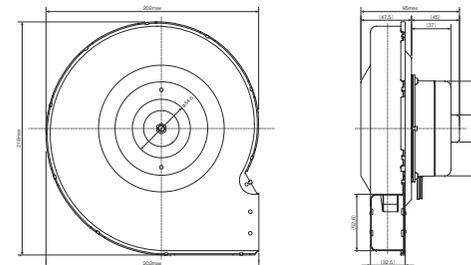
■ DRF-8538 B type

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
DC 120 V	2.0 m ³ /min	1300 Pa	1.2 A	Turbo Fan



■ DRF-8538 C type

RATED VOLTAGE	MAX AIR FLOW	MAX PRESSURE	MAX CURRENT	FAN
DC 120 V	1.7 m ³ /min	1650 Pa	1.8 A	Turbo Fan



i Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

Stepping motor

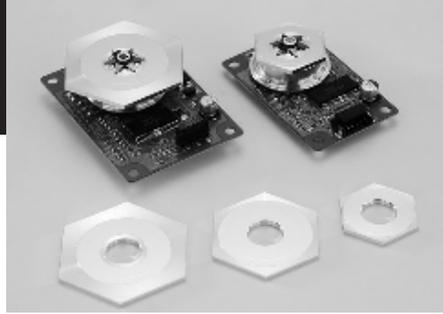
Outer BLDC

Inner BLDC

Other motor

Motor driver

Polygon Mirror Scanner Motor



Customization Examples

SPECIFICATIONS

MOTOR

MODEL	RATED VOALTAGE	RATED SPEED	STARTING CURRENT
	V-DC	r/min	A
DR-24312	24	45000	2.5
DR-30312	24	35000	2.5

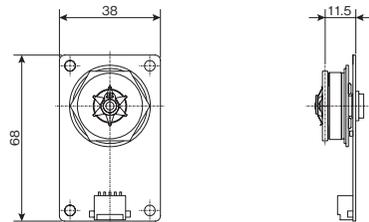
MIRROR

FACE	INNER DIAMETER (φ)	THICKNESS (mm)	PLANE FLATNESS	REFLECTION (%)
6 faces	25.98	2	$\lambda/4$	80
	34.64	2	$\lambda/4$	80
	36.00	2	$\lambda/4$	80

*at $\lambda = 632.8\text{nm}$

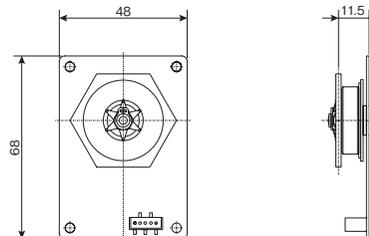
DIMENSIONS [EXAMPLE]

DR-24312 (Mini Polygon)



DR-24312

DR-30312



Shaft customization

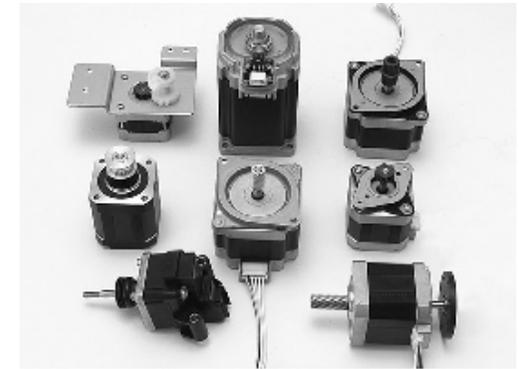
- Helical gear
- Knurl
- Key groove
- Flat / Double flats
- Press fit gear / pulley

Mounting customization

- Attachment plate
- Unique bracket
- Mount damper
- Extra holes

Other customization

- Roll damper
- Optical / Magnetic encoder
- Brake



Driver and Controller Integrated Stepping Motor



Hollow shaft Stepping Motor



Gear Assembly



Geared Stepping Motor



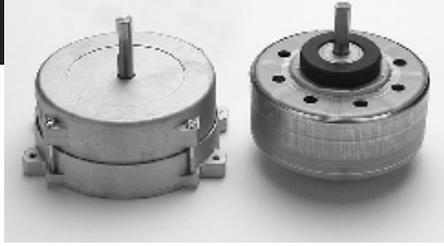
□42 gear box

□60 gear box



Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

AC Induction Series

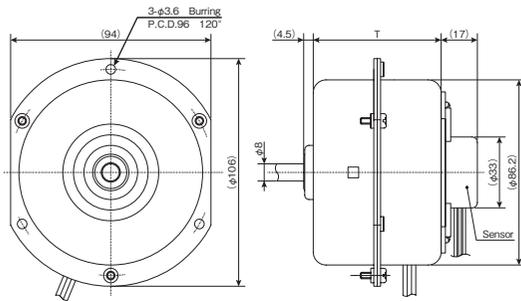


TORQUE RANGE

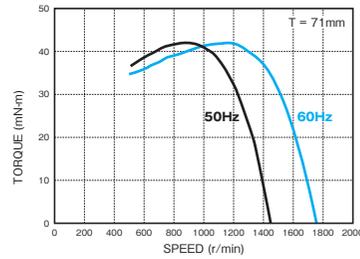
SERIES	MAJOR DIAMETER	MODEL	TORQUE (mN·m)									
			0	50	100	200	300	400	600	800	1000	
AC Induction	φ86.2mm	IB(H)-84X-A	[Torque range bars]									
AC Induction	φ86.2mm	IB-84X-B	[Torque range bars]									
AC Induction	φ92mm	IB(H)-884-A	[Torque range bars]									
AC Induction	φ92.4mm	IB(H)-884-B	[Torque range bars]									
AC Induction	φ96.4mm	IB-884-C	[Torque range bars]									

■ IB(H)-84X-A [CONDENSER MOTOR]

RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (2P)	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	2~25 W	2000~2600 r/min 2600~3000 r/min	1000~1300 r/min 1300~1600 r/min	Max 1.5 (MAX 1.0) A	60mm or 71mm

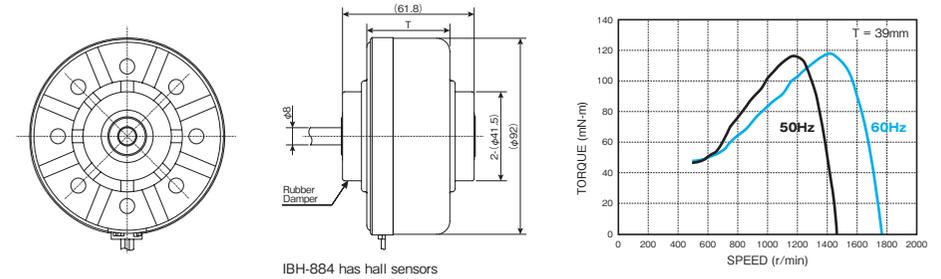


IBH-84X has hall sensors



■ IB(H)-884-A [CONDENSER MOTOR]

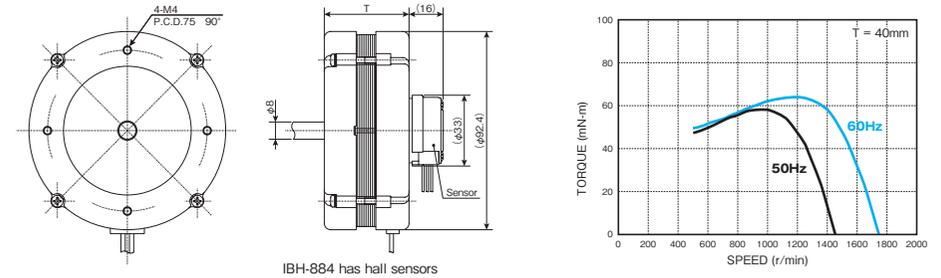
RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	2~30 W	1100~1350 r/min 1400~1650 r/min	Max 1.5 (MAX 1.0) A	39mm or 49mm



IBH-884 has hall sensors

■ IB(H)-884-B [CONDENSER MOTOR]

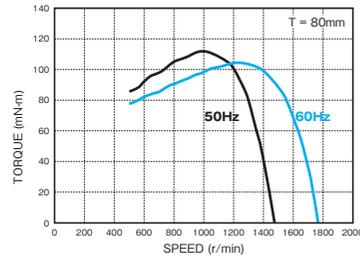
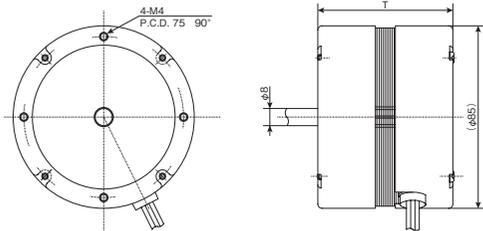
RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	2~30 W	1100~1350 r/min 1400~1650 r/min	Max 1.5 (MAX 1.0) A	40~55 mm



IBH-884 has hall sensors

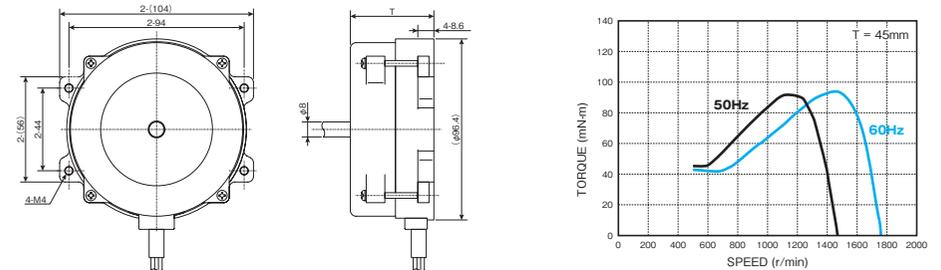
■ IB-84X-B [CONDENSER MOTOR]

RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (2P)	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	2~25 W	2000~2600 r/min 2600~3000 r/min	1000~1300 r/min 1300~1600 r/min	Max 1.5 (MAX 1.0) A	64~80 mm



■ IB-884-C [CONDENSER MOTOR]

RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	2~30 W	1100~1350 r/min 1400~1650 r/min	Max 1.5 (MAX 1.0) A	45mm or 55mm



i Specifications are reference only. Feel free to contact sales office or sales agent.

AC Induction Series



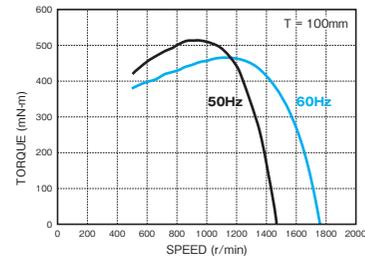
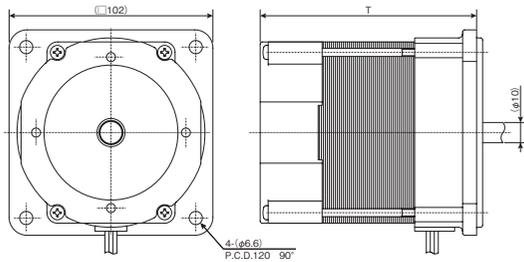
TORQUE RANGE

SERIES	MAJOR DIAMETER	MODEL	TORQUE (mN·m)								
			0	50	100	200	300	400	600	800	1000
AC Induction	□102mm	IB-92X	[Torque range bar from 0 to 800 mN·m]								
AC Induction	□106mm	IB-976									
AC Induction	φ79.6mm	IS-784-A	[Torque range bar from 0 to 150 mN·m]								
AC Induction	φ80mm	IS(H)-784-B									

IB-92X

[CONDENSER MOTOR]

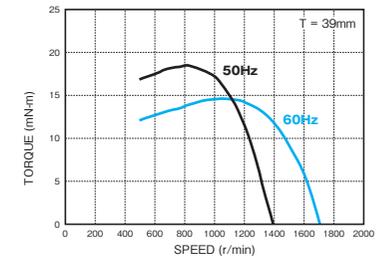
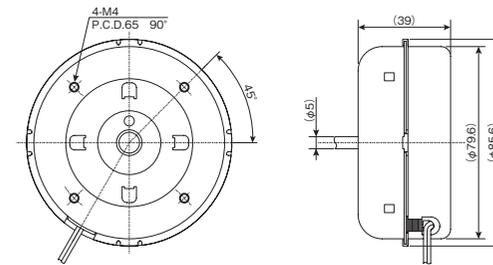
RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (2P)	RATED SPEED (4P)	RATED SPEED (6P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	10~50 W	2000~2800 r/min 2600~3000 r/min	1000~1300 r/min 1300~1600 r/min	700~850 r/min 900~1050 r/min	Max 2.0 (MAX 1.2) A	85~120 mm



IS-784-A

[SHADED POLE MOTOR]

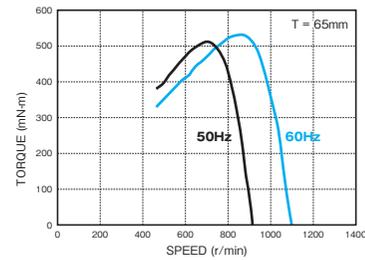
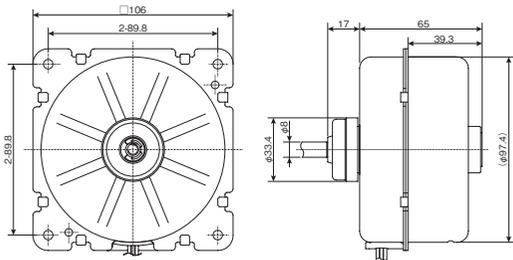
RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	Max 2 W	900~1300 r/min 1200~1500 r/min	Max 0.5 (MAX 0.3) A	39 mm



IB-976

[CONDENSER MOTOR]

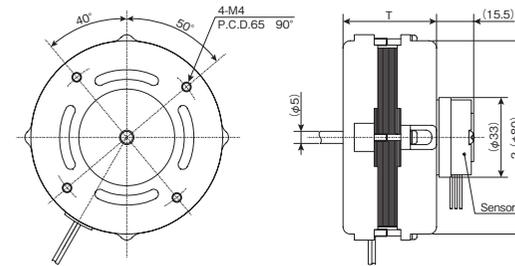
RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (6P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	5~35 W	700~850 r/min 800~1000 r/min	Max 2.0 (MAX 1.2) A	65 mm



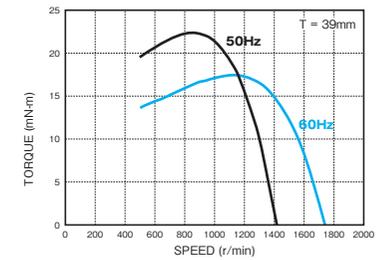
IS(H)-784-B

[SHADED POLE MOTOR]

RATED VOLTAGE	FREQUENCY	RATED OUTPUT	RATED SPEED (4P)	RATED CURRENT	T
AC 100(200) V	50 / 60 Hz	Max 2 W	900~1300 r/min 1200~1500 r/min	Max 0.5 (MAX 0.3) A	39mm or 40mm

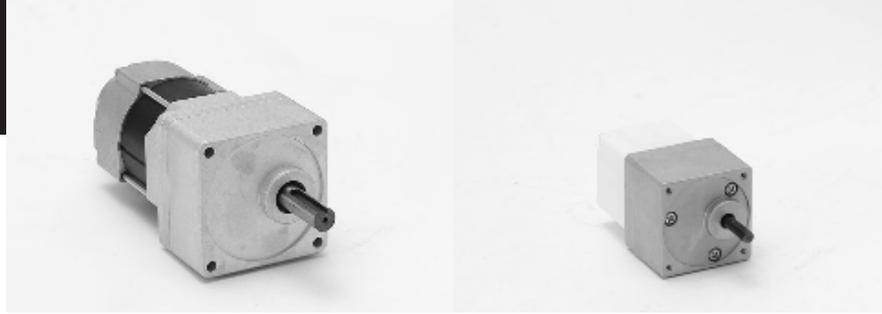


ISH-784 has hall sensors



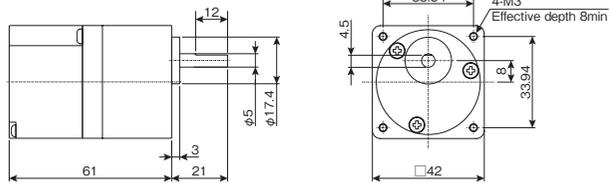
i Specifications are reference only. Feel free to contact sale office or sales agent for detailed information.

Geared Motor



BRUSHLESS DC WITH □ 42mm GEAR BOX

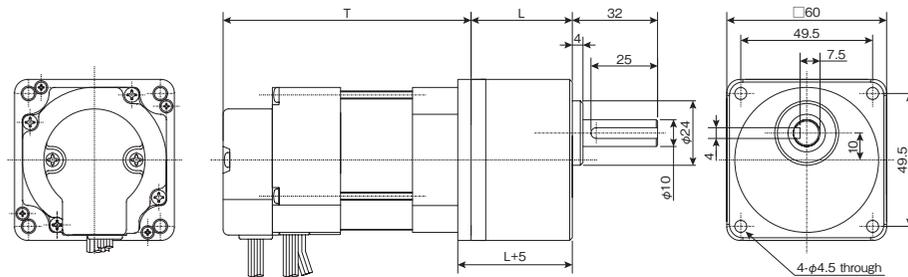
MODEL	SIZE	VOLTAGE	GEAR RATIO	SPEED	PERMISSIBLE TORQUE	PERMISSIBLE OVERHANG LOAD	PERMISSIBLE THRUST LOAD
DRG-38312	□42	DC 24 V	1/12	240 rpm	0.45 N-m	(15mm from mounting surface) 49 N	14.7 N
	□42	DC 24 V	1/50	21 rpm	1 N-m	(15mm from mounting surface) 49 N	14.7 N



BRUSHLESS DC WITH □ 60mm GEAR BOX

T = 93.1 ~ 113.1mm
 L = 1/5, 1/10, 1/15, 1/20 ⇒ 34mm
 1/30, 1/50, 1/100 ⇒ 38mm
 1/200 ⇒ 43mm

MODEL	SIZE	VOLTAGE	GEAR RATIO	SPEED	PERMISSIBLE TORQUE	PERMISSIBLE OVERHANG LOAD	PERMISSIBLE THRUST LOAD
LA052-040E-xxx	□60	DC 24 V	1/20	150 rpm	2.2 N-m	(22mm from mounting surface) 150 N	39.2 N
	□60	DC 24 V	1/50	60 rpm	4.6 N-m	(22mm from mounting surface) 200 N	39.2 N
	□60	DC 24 V	1/100	30 rpm	4.1 N-m	(22mm from mounting surface) 200 N	39.2 N
	□60	DC 24 V	1/200	15 rpm	4.1 N-m	(22mm from mounting surface) 200 N	39.2 N



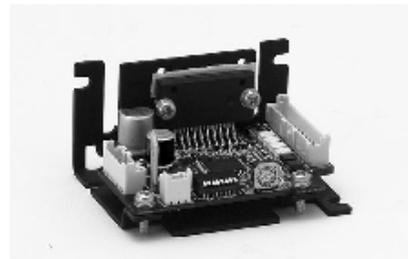
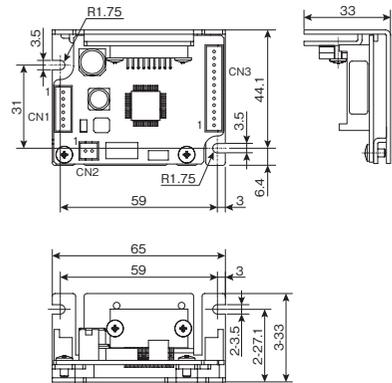
Specifications are reference only. Feel free to contact sales office or sales agent for detailed information.

2 Phase Hybrid Stepping Motor Driver

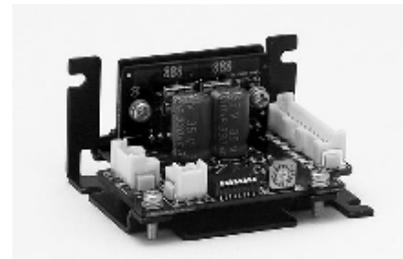
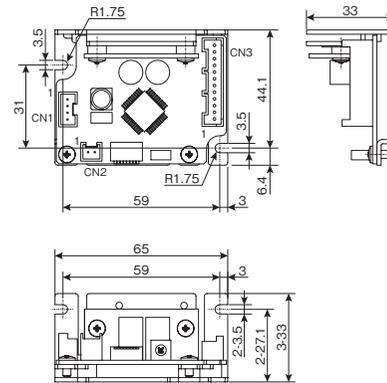
MODEL NAME		UNIPOLAR SDU22C701	BIPOLAR SDB21C702
Specification items			
Power	Input voltage	DC 24 V	DC 24 V
	Current consumption	3 A	1.5 A
Driving method		Unipolar chopper drive	Bipolar chopper drive
Function switch	Pulse input mode	1 pulse input mode / 2 pulse input mode	
	Running current	0 - 2.73A (16 steps)	0 - 1.5A (16 steps)
	Holding current	0 - 2.09A (10 steps)	0 - 1.5A (16 steps)
	Step division	Full, Half, 1/4, 1/8, 1/16	
Input		<ul style="list-style-type: none"> • CW/CCW signal (Pulse and direction signal) • Current Enable / Disable • Step division Enable / Disable • Auto power down Enable / Disable * Photocoupler insulation 	
Output		Excitation timing signal	
Indicator	LED	Power X1 StatusX1	
Protective functions		Excessive current protection & Excessive temperature protection	
Operating condition	Ambient temperature	0-45 deg. C	
	Ambient humidity	85% or less (No condensing and no freezing)	

DIMENSIONS

SDU22C701



SDB21C702



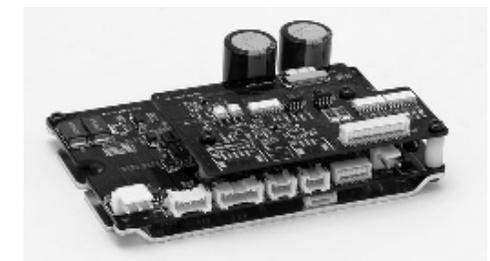
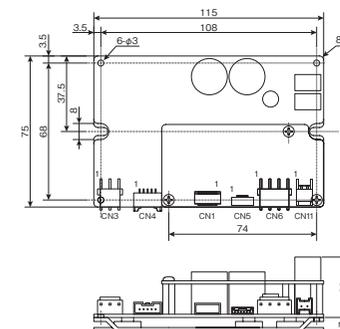
Servo Motor Driver

MODEL NAME		STANDARD DDB38T711
Specification items		
Power	Output Power	100 W
	Input Voltage	DC 24 V
Control	Torque control	Internal setting (0 - 400%) / Analog input (Optional)
	Speed control	Internal setting (0 - 100%) / Analog input (Optional)
	Position control	Reference pulse input 1. 90deg. phase difference mode 2. 2 pulse input mode 3. 1 pulse input mode
Communication		RS-485
Parameter setting		Control mode, Pulse input mode, Electrical gear, Gain, Position completion, Speed error, Torque control lock, Acceleration time, Deceleration time, Speed, Position and others
Input	2 channels (Reference Pulse)	Pulse (CW/PLS) / (CCW/DIR)
	7 channels (Multi purpose)	The signal and logic are selectable <ul style="list-style-type: none"> • Servo On/ Off • Position clear • External error • Direction logic • Start / Stop <ul style="list-style-type: none"> • Control mode • Alarm reset • Preset memory • Initial drive • Others
	Analog 1 channel (0-5VDC)	The signal is selectable <ul style="list-style-type: none"> • Torque control • Speed control <ul style="list-style-type: none"> • Others
Output	2 channels (Encoder pulse)	Motor encoder pulse output (400ppr / 1000ppr)
	4 channels (Multi purpose)	The signal and logic are selectable <ul style="list-style-type: none"> • Servo On/ Off • Errors • Status <ul style="list-style-type: none"> • Ready/busy • Others
Function switch	Dip switch	8 bit
Indicator	LED	Power X1 Status X 2
Protective functions		Over voltage, Under voltage, Motor temperature, Hall sensor signal error, Encoder signal error, Over current, Speed error, Servo deviation, Initial drive error
Operating condition	Ambient temperature	0 - 50deg. C
	Ambient humidity	85% or less (No condensing and no freezing)

Specifications are reference only. Feel free to contact sale office or sales agent for detailed information.

DIMENSIONS

STANDARD (DDB38T711)



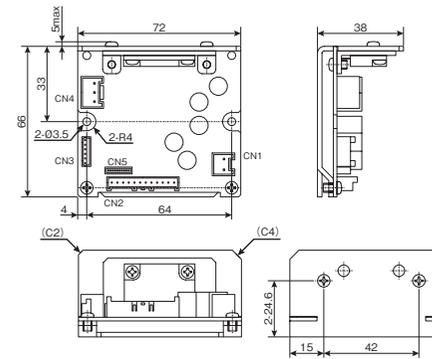
Brushless DC Motor Driver

MODEL NAME	ENTRY	STANDARD	ADVANCED	
	DDB33V700 SERIES	DDB38V700 SERIES A	DDB38V700 SERIES B	
Specification items				
Power	Output power	60W	100W	100W
	Input voltage	DC 24 V	DC 24 V	DC 24 V
Control	Speed control	Digital PI	Digital PI	Digital PI
	Speed range	400-3000rpm	400-3000rpm	400-3000rpm
	Speed fluctuation	± 1%	± 1%	± 1%
	Speed control mode	1. Variable resistor 2. External DC voltage (0-5V)	1. Variable resistor 2. External DC voltage (0-5V) 3. External frequency	1. Variable resistor 2. External DC voltage (0-5V) 3. External frequency
	Acceleration time	250-3000 msec. (Variable resistor)	250-3000 msec. (Serial communication)	250-3000 msec. (Serial communication)
Regenerative circuit		Optional	Optional	
Serial Communication	Original	Original	Original / RS485	
Interface	Open collector	Open collector	Photocoupler	
Input	Start / Stop	✓	✓	✓
	Run / Brake	✓	✓	✓
	CW / CCW	✓	✓	✓
	Alarm reset	✓	✓	✓
	INT VR / EXT	✓	✓	✓
	VRM (Analog)	✓	✓	✓
	EXT VR / EXT FR		✓	✓
	External frequency		✓	✓
	Multi function 0 (Current limit)		✓	✓
	Multi function 1 (Current limit)		✓	✓
Output	Speed	FG pulse	FG pulse	A/B channel
	Alarm	✓	✓	✓
	Speed error		✓	✓
	Multi function 0	✓	✓	✓
Indicator	LED		Power X1 Status X 2	Power X 1 Status X 2
	Over voltage	✓	✓	✓
Protective function	Under voltage	✓	✓	✓
	Over load	✓	✓	✓
	Over current	✓	✓	✓
	Hall sensor signal error	✓	✓	✓
	Current monitor		✓	✓
	Regenerative detection		✓	✓
	Thermal protection		✓	✓
Operating condition	Ambient temperature	0-50 deg. C	0-50 deg. C	0-50 deg. C
	Ambient humidity	85% or less (No condensing and no freezing)	85% or less (No condensing and no freezing)	85% or less (No condensing and no freezing)

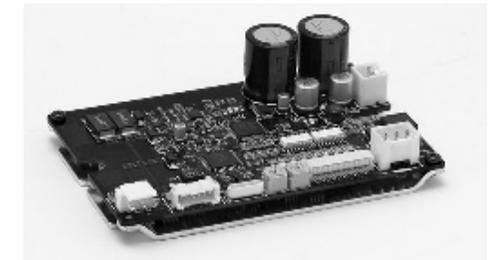
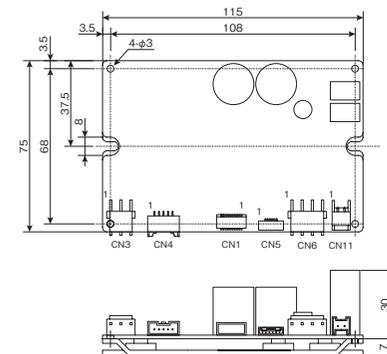
Specifications are reference only. Feel free to contact sale office or sales agent for detailed information.

DIMENSIONS

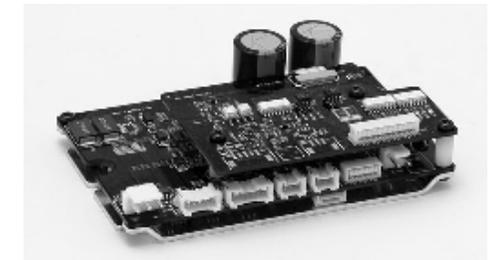
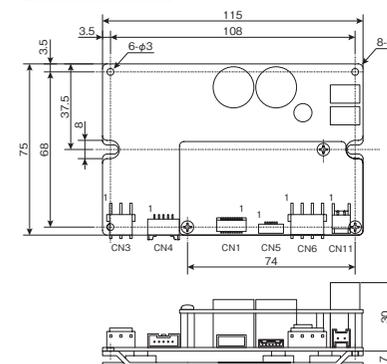
ENTRY DDB33V700 SERIES



STANDARD DDB38V700 SERIES A



ADVANCED DDB38V700 SERIES B



Stepping motor

Outer BLDC

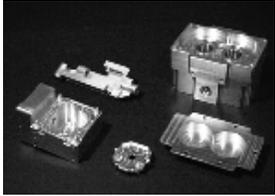
Inner BLDC

Other motor

Motor driver

Mechanical parts and others

Shinano Kenshi offers high quality and precise mechanical parts in quick delivery, by utilizing facilities and experiences acquired from the production of precision motors, computer peripherals and offset printers.

<p>Die-sinking EDM (EDM: Electorcal discharge machining) Wire cutting EDM Machining center Turning center NC lathe Milling machine Plane grinder Die-casting machine</p>	<p>Components for hard tooling Components for fixtures Machined parts Prototype parts Aluminum diecasting parts</p> 
<p>Automatic screw machine Milling cutter Hobbing machine Knurl Centerless grinder Cylindrical grinder</p>	<p>Striking parts Shaft Hobbing shafts Gear</p>  <p>Heat treatment, nitriding and other hardening finishes are available.</p>
<p>Shinano Kenshi China plant Subcontract factory (Japan)</p>	<p>Tooled parts Pressed parts Machined plastics and resin moldings</p> 

2 Phase hybrid stepping motor inquiry form

Your information

Company

Section

Name

Phone

Fax

E-mail

Your technical requirements

	Specification items	Request
Spec	Base motor (Please circle)	28D / 35D / 36C / 39C / 42H 43D / 55D / 56C / 59D / 60D
	Motor length	mm (max)
	Step angle (Full step)	1.8°/STEP 0.9°/STEP 3.75°/STEP
	Winding type	<input type="checkbox"/> Unipolar <input type="checkbox"/> Bipolar
	Driver type	Chopper (Constant current drive) Constant voltage drive
	Input voltage	DC V
	Rated current	A
	Pulse rate	pps
	Holding torque	mN-m
	Pull out torque	mN-m
Condition	Excitation mode	Full step / Half step / Micro step (division)
	Others
	Operating temperature	~ deg.C
	Operating humidity	~ % RH
	Special note

Drawings and sketch

Brushless DC motor / Induction motor inquiry form

Your information

Company

Section

Name

Phone

Fax

E-mail

Your technical requirements

Brushless DC motor

Induction motor

	Specification items	Request
Spec	Motor size	Outer diameter mm Length mm
	Motor power	Output W
	Input voltage	DC V AC V Hz
	Rated current	A
	Rated Speed	r/min
	Load condition	Torque mN-m (Motor)
		Air Flow M ³ /min Pressure Pa (Blower Motor)
	Gear ratio (if available)	
	Shaft diameter	mm
	Shaft shape	Flat / Round / Others ()
	Mounting orientation	Shaft horizontal / Shaft vertical / Other
	Drive circuit	Integrated / External / Not necessary
	Control circuit	Integrated / External / Not necessary
	Life	H
Noise level	dB	
Rotative direction	CW / CCW / 2way	
Protection and safety	Yes / No	
	If Yes: Oil / Water / Vibration / Others ()	
Others	
Condition	Operating temperature	to deg.C
	Operating humidity	to % RH
	Special note

Drawings and sketch

Shinano Kenshi Business Locations



Japan <http://www.skj.co.jp>

Shinano Kenshi Co., Ltd. Marketing Section

Address: 1078 Kamimarucho
Ueda City, Nagano, 386-0498, Japan
Phone: (81)268-41-1885 Fax: (81)268-42-5904
E-mail: motor@skj.co.jp

USA <http://www.shinano.com>

**Shinano Kenshi Corporation
US headquarters**

Address: 6065 Bristol Parkway
Culver City, CA 90230 USA
Phone: (1)310-693-7600 Fax: (1)310-693-7599
E-mail: info@shinano.com

Eastern regional office

Address: 5000 Tilghman Street
Suite 330 Allentown, PA 18104-9101 USA
Phone: (1)610-481-9888 Fax: (1)610-481-9777

Europe <http://www.plextor.be>

Shinano Kenshi Europe N.V.

Address: Excelsiorlaan 11, 1930 Zaventem, Belgium
Phone: (32)2-725-5522 Fax: (32)2-725-9495
E-mail: motor@plextor.be

Thailand <http://www.skj.co.jp>

Shinano Kenshi Trading Co., Ltd.

Address: 160/759-761 Silom Palace BLDG. Sirom RD.,
Bangkok 10500 Thailand
Phone: (66)2-237-2564 Fax: (66)2-237-2460
E-mail: motor@skt.co.th

India <http://www.shinano.in>

Shinano ABV Technologies Pvt. Ltd.

Address: Plot 131, KIADB Industrial Area, Bommasandra -
Jigani Link Road, Jigani, Bangalore 560105 INDIA
Phone: (91)80-6633-8872 Fax: (91)80-6633-8861
E-mail: sales@shinano.in

China <http://www.shinanomotor.com>

Dong Guan Shinano Motor Co., Ltd.

Address: Xiang Xin West Road, Yantian Village, Fenggang
Town, Dongguan, Guangdong Province 523701
China
Phone: (86)769-8772818 Fax: (86)769-8772134
E-mail: skyyingye@shinanomotor.com

Dong Guan Shinano Motor Co., Ltd.

(Shanghai Sales Office)
Address: Room 726, Pine City HoPhone, 8 Dongan
Road, Xuhui Qu, Shanghai, China
Phone: (86)21-644-30521 Fax: (86)21-644-38583
E-mail: skseigy@skj.com.cn

Hefei Shinano Motor Co., Ltd.

Address: Building A3, Fengxia Standard
Workshop, Fengxia Road, Shuangfeng Economic
Development Zone, Changfeng County, Hefei-
City, Anhui Province, China
Phone: (86)0551-5689688 Fax: (86)0551-5689588

Shinano Kenshi (Hong Kong) Co., Ltd.

Address: Section D, 24th FL., Southeast Industrial
Building, 611-619, Castle Peak RD, Tsuen Wan,
N.T., Hong Kong
Phone: (852)2411-0013 Fax: (852)2413-6338
E-mail: shinano_hksales@skj.co.jp

**Shinano Kenshi (Hong Kong) Co., Ltd.
Taiwan Office**

Address: Room 3A38, Taiwan External Trade
Development Council, No.5, Sec. 5, Hsin Yi
Road, Taipei 11011, Taiwan, R.O.C
Phone: (886)28786-1588 Fax: (886)28786-1589
E-mail: shinano_twsales@skj.co.jp

Shinano Kenshi Plants



Headquarters in Japan

Shinano Kenshi Co., Ltd

1078 Kamimaruko
Ueda City, Nagano, 386-0498, Japan
Phone: (81)268-41-1885 Fax: (81)268-42-5904



Access information:

Approximately 30 minutes drive from Ueda station.



China Plant

Dong Guan Shinano Motor Co., Ltd.

Xiang Xin West Road, Yantian Village, Fenggang Town,
Dongguan, Guangdong Province 523701 China
Phone: (86)769-87772818 Fax: (86)769-87772134



Access information:

From Hong Kong airport to KCR Lo Wu station.
Approximately 40 minutes drive from KCR Lo Wu station.

Dong Guan Shinano Motor Co., Ltd. is our group's largest production base. It is a highly impressive facility equipped with a wide range of vertically integrated functions including in-house product design, parts procurement, manufacture and sales activities. Dong Guan Shinano Motor has the vertical manufacturing capability to make in-house production equipment, to make nearly all component parts for our products and to test and assure that our products meet customer expectations. Shinano Kenshi is now planning to further enhance its global competitiveness by shifting and strengthening more of its R&D and procurement functions in China.



ISO9001
JP09/061640



ISO14001
JP09/070742



ShinanoKenshi
New Ideas in Motion

Model number, specification and the other description in this catalog are subject to change for motor improvement without any announcement in advance. Please contact above in that case.