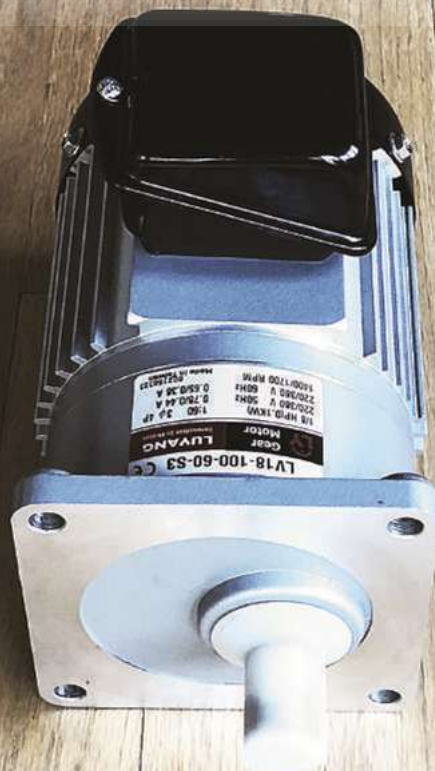




PRODUCTS &
SOLUTIONS

THE POWER TO
DRIVE YOU...

Induction Motors • Reversible Motors • Speed Variable Motors
Brake Motors • Speed Variable Brake Motors





About LY

Founded in 1979, LUYANG Technology Co., Ltd., is a professional manufacturer of gear motors and gearheads. We have accumulated experience in several decades to produce motors, and are devoted to develop new products to support domestic and international customers upon our high quality and service.

LUYANG Technology Co., Ltd. utilizes advanced high-tech instruments and equipment, fulfilling quality control; moreover, satisfying demand and expectation from customers by means of our thoughtful, attentive, and quick reactive service.

History

- 1979** LUYANG Industry is Founded
- 1986** Reorganized as LUYANG Machinery & Electrical, a professional manufacturer of gearmotors.
- 1997** Introduced AC small motors "K Series"
- 2003** Approved CE certification
- 2010** Establish a new China branch at Kunshan City
- 2015** High efficiency products are available
- 2016** UL certified for USA and Canada Approved

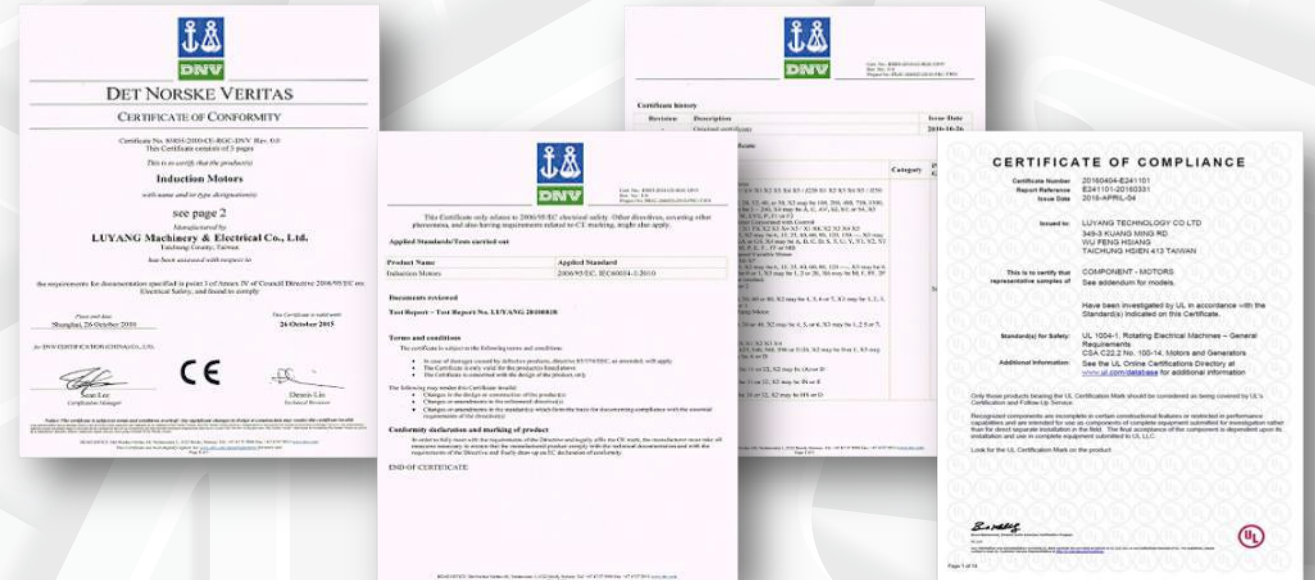
Certification CE & UL Standard

Our products meet international safety standards and acquired UL and CE Certification for the United States, Canada, and Europe market.



Certification CE, UL

Products have met international safety standards and acquired UL and CE Certification for the United States, Canada and European markets.



Made in Taiwan

Based in Taiwan, we are committed to producing high quality, reliable components and products.

Application of Motors

Garmotors

Packing Machine
Conveyor Machine
Automated Machinery and Equipment
Cutting Equipment
Feeding Equipment
Food Machine
Parking Equipment
Carton Sealer
ATC

Small Motors & Gearbox

Packing Machine
Conveyor Machine
Automated Machine and Equipment
Feeding Equipment
Food Machine
Coding Machine
Medical Equipment
Sealing Machine
Oil Lubrication System



Development System

Luyang research and development center has more than 30 years of experience. Our engineers react quickly to address client demands and have strong ability and technical design to cater to motors and reducers with high technical design.

We approach to improving the quality of our products and forward technical developing through integrate new materials, reliability testing, processing methods and technologies. Being a best technology supporter is our core value.

* OEM, ODM are available service.



Micro-Hite 3D Measurement Station

We are committed to providing our customers with excellent products based on precise equipment, such as micro-hite 3D measurement station in in-come quality control.



Motor Producing & Testing

Using precise equipments, processing methods and streamlined manufacturing systems, our products demonstrate steady quality and well function.

All products are made in Taiwan to ensure products with highest quality delivered to our valuable partners and customers.





Quality Control



Rotor Balancing Check

Check and adjust rotor and shaft balance.



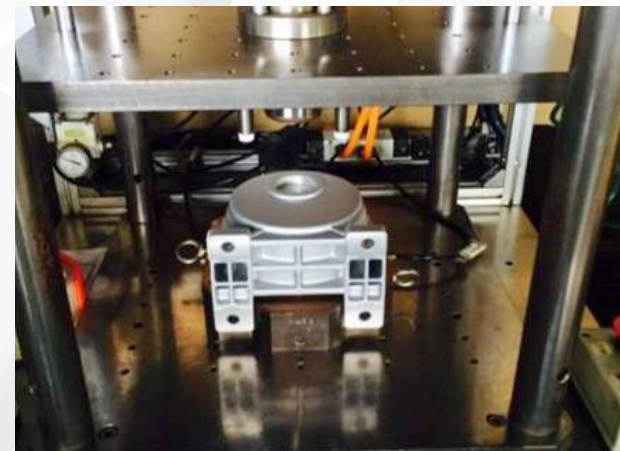
Coil and Motors Testing

Have 2-steps in coil test and motor running test.



Decibel Test

Bulid a Noise Testing Room in order to get decibel performance of motors and reducers.



Housing Precision

Under restrict inspection it can avoid oil-leak and operate smoothly.

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Luyang Technology Co., Ltd. has the right to modify product designing without notice.

Standard Regulation of Motor

ITEM	THREE PHASE ALTERNATING CURRENT MOTOR	SINGLE PHASE ALTERNATING CURRENT MOTOR
Ingress Protection	IP-23	
Motor Case	Aluminum	
Initialization Mode	Start Directly	Capacitor-start Capacitor-start + Centrifugal switch
Rated Time	Continuous Rating	
Insulation	E class	
Environment	Ambient temperature 0°C~ 40°C (no freeze)	
	Humidity below 85% (freeze prevent)	
Pole	2P, 4P	
Altitude	Below the altitude of 1000m	
Install Environmental Limitation	Should be installed in indoor area	
	Do not be closed to easy-explosive and flammable place	
	Avoid illumination, water, oil or other liquids	
	Avoid continuous vibration or hit	
	Less salty environment	
	Avoid electromagnetic interference	
	Not being in the radiate, magnetic or vacuum area	

Operation Tips

1. Installation, movement, and motor-check are prohibited while motor is electrified.
2. Do not touch motor directly while motor is operating, or staff may get electric shock.
3. Cut the power off immediately while abnormal situation happened, or it is possible to get electric shock or hurt, even the fire my happen.
4. Cut the power off while power failure, otherwise after power is back on, human or device could be hurt if the motor start abruptly.
5. After cutting the power off, do not touch capacitor terminal within 30 seconds, or it is possible to get electric shock due to remaining current.
6. Do not overload, otherwise electric shock, human hurt or device damage could be happened.
7. Do not touch rotating parts (output shaft, heat sink fan.etc..) while the motor is operating.



Article-K Series

Induction of Motor

4 IK 25 GN – A M

Dimension	Type	Output	Motor Shaft	Voltage & Pole	Accessory
2: 60mm 3: 70mm 4: 80mm 5: 90mm	IK: Induction TK: Torque RK: Reversible *Instantaneous switching of rotation direction *Instantaneous switching of rotation direction	6: 6W 15: 15W 25: 25W 40: 40W 60: 60W 90: 90W 120: 120W 150: 150W	A: Round shaft A(K): Round shaft with keyway AK: Worm gear Shaft GN: Pinion shaft under 40W GU: Pinion shaft 60W above GA: Alloy worm (40-90W) GS: Clutch brake (Thick) (40-150W) Note: Add "R" means SS-series speed control motor.	A0:1Ø100V4P A: 1Ø110V4P C0: 1Ø200V4P C: 1Ø220V4P CE: 1Ø220~240V4P (50Hz) S: 3Ø220V4P U: 3Ø380V4P S3: 3Ø220/380V4P B: 1Ø110V2P D: 1Ø220V2P Note: 2P: High Speed 4P: Normal Speed	F: Fan (Standard equipment 60W above) M: Power off brakes P: Thermal switch T : Terminal box (55*55) FF: Forced fan

Indication of Gear Box

4 GN 100 K

Dimension	Type	Ratio	Bearing Type
2: 60mm 3: 70mm 4: 80mm 5: 90mm	GN: General gear type under 40W GU: Powerful gear type 60W above GA: Worm gear box (40~90W)	100: 1/100 10XK: Decimal type	GN – K: Standard + Ball bearing GU { K: Ear Flange + Ball bearing KB: Standard + Ball bearing

Indication of Assembled Speed Control Motor

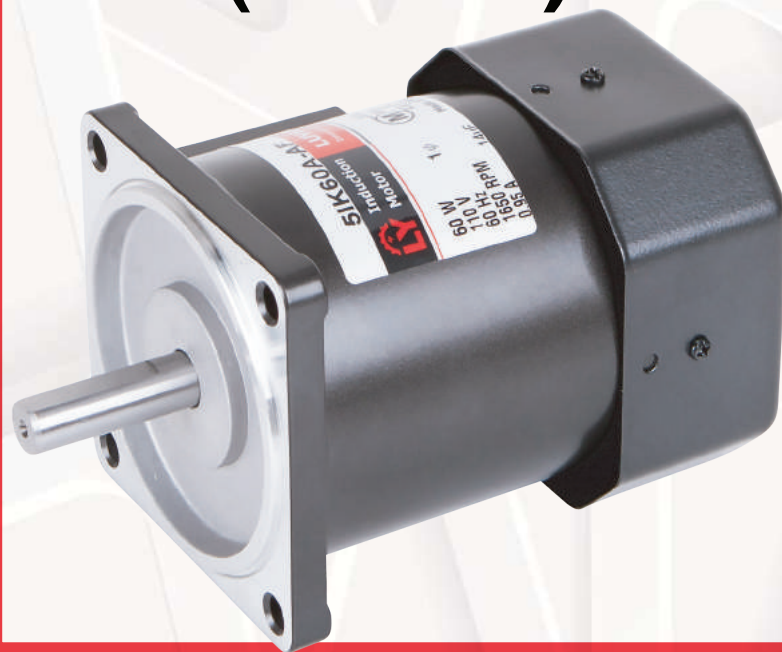
M 5 40 – 0 0 1 FF – (K)

Model	Dimension	Output	Shaft	Type	Voltage	Accessory	Others
M : Speed Control Motor (without controller)	2 : 60mm 3 : 70mm 4 : 80mm 5 : 90mm	6 : 6W 15 : 15W 25 : 25W 40 : 40W 60 : 60W 90 : 90W 120 : 120W 150 : 150W	0 : Round Shaft 4 : GN 5 : GU 6 : GS 7 : GA	0: Induction 1: Reversible *Reversible *Time for terminating is shorter *30 mins rated	1: 1Ø110V 2: 1Ø220V 2E: 1Ø220~240V/50Hz	F : Fan (Standard for 60W above) M : Brake FF : Forced Fan	(K) : Keyway (40W above) AK : Worm gear (25W above)

* Reversible motor: 30 mins rating.

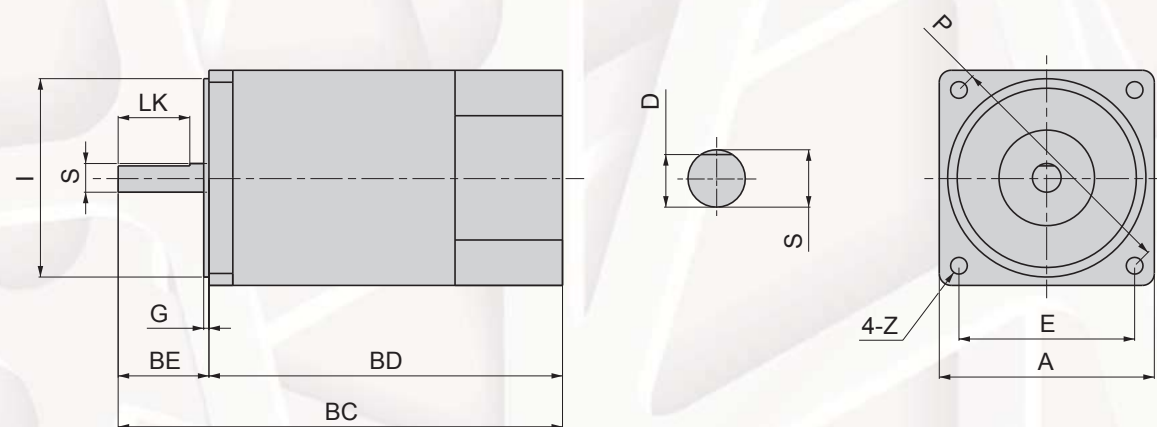
* Please contact us while the motor is running under the low temperature environment.

AC MOTOR (IK/RK)



IK motor is suitable for application of operating continuously.

RK motor is suitable for application of reversing its direction repeatedly (30 mins rated time limited).



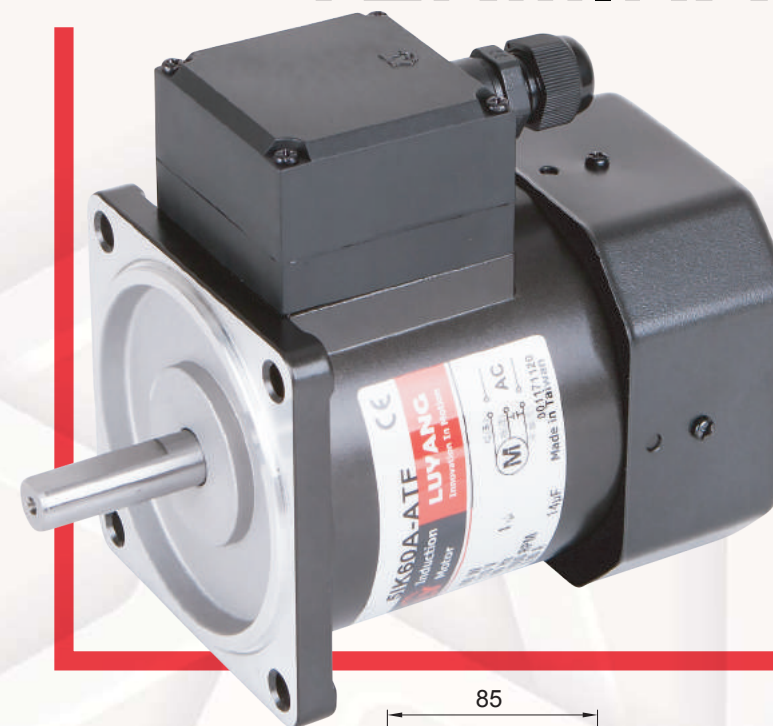
Dimension (mm)

Model	Output (w)	A	BC	BD	BE	I	G	P	Z	E	Shaft			Weight (KG)
											LK	S	D	
2	6W	60	100	76	24	54	2.2	70	5	49.5	18	6	5.2	0.8
3	15W	70	112	80	32	64	2.2	82	6	58	25	6	5.2	1.1
4	25W	80	118	86	32	73	2.2	94	7	66.5	25	8	7	1.5
5	40W	90	142	106	36	83	2.2	104	7	73.6	30	10	9	2.4
	60W	90	161	125	36	83	2.2	104	7	73.6	30	12	11	2.5
	90W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.3
	120W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.3
	150W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.3

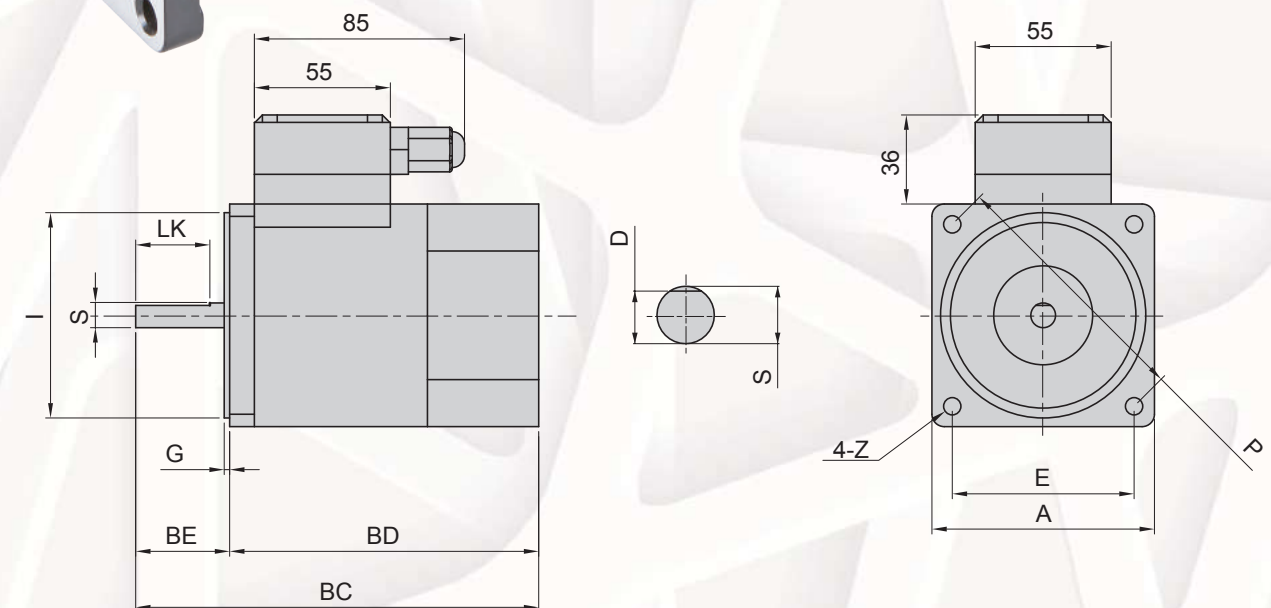
* Reversible motor: 30 mins rated time limited.

"Rated Time limited" means motor must be cooled down after 30mins running. Otherwise, motor is possible to be damaged.

MOTOR W/ TERMINAL BOX



Conforms to Europe safety standards, IP54 are available to be ordered.



Dimension (mm)

Model	Output (w)	A	BC	BD	BE	I	G	P	Z	E	Shaft			Weight (KG)
											LK	S	D	
2	6W	60	100	76	24	54	2.2	70	5	49.5	18	6	5.2	1.02
3	15W	70	112	80	32	64	2.2	82	6	58	25	6	5.2	1.38
4	25W	80	118	86	32	73	2.2	94	7	66.5	25	8	7	1.6
5	40W	90	142	106	36	83	2.2	104	7	73.6	30	10	9	2.78
	60W	90	161	125	36	83	2.2	104	7	73.6	30	12	11	2.78
	90W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.65
	120W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.65
	150W	90	184	148	36	83	2.2	104	7	73.6	30	12	11	3.65

* Reversible motor: 30 mins rated time limited.

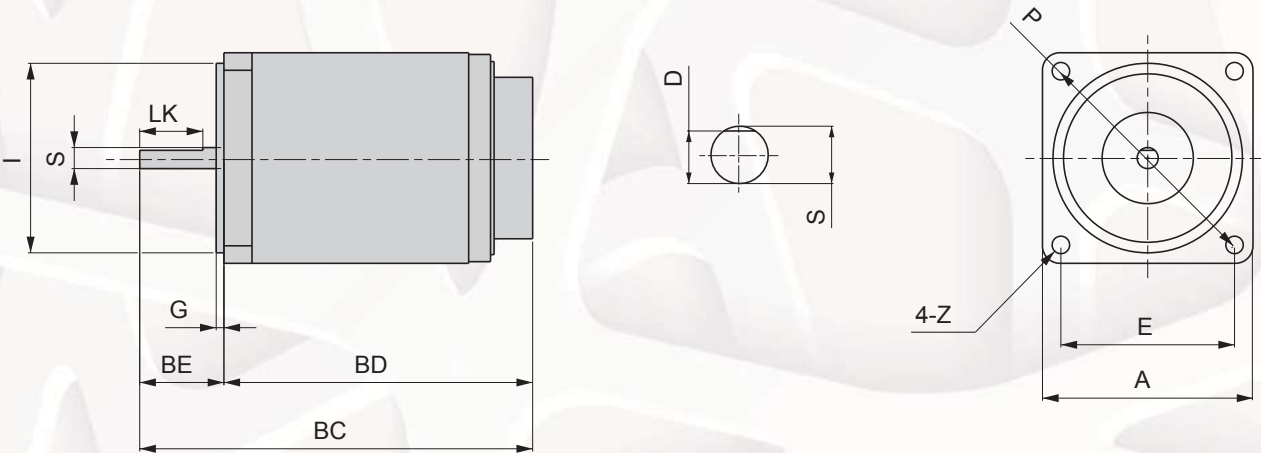
SPEED CONTROL MOTOR



Motors can utilize feedback from the tachogenerator to control motor speed.

Speed control range:
90-1350 rpm/min (50Hz)
90-1600 rpm/min (60Hz)

Note 1:Three-phase motor is requested to corporate with inverter.
Note 2:Speed control range is restricted to no-loading circumstance.



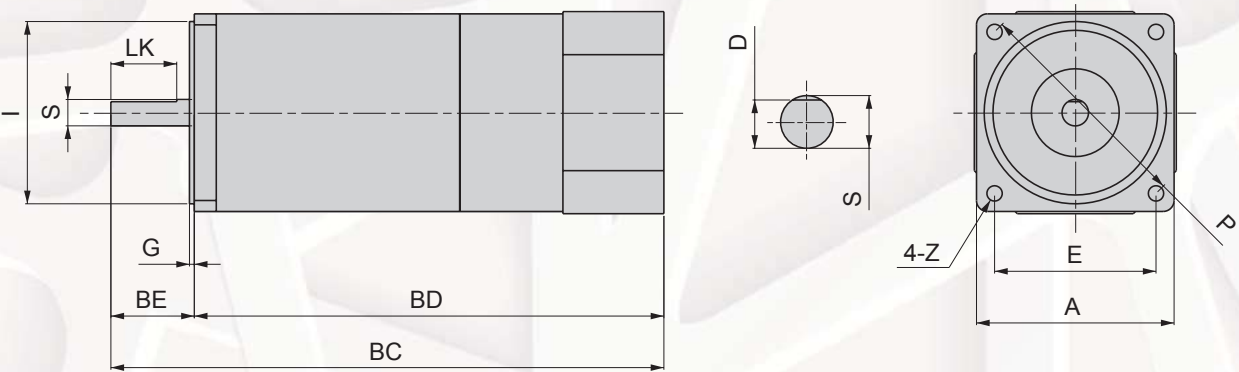
Dimension (mm)														
Model	Output (w)	A	BC	BD	BE	I	G	P	Z	E	Shaft			Weight (KG)
											LK	S	D	
2	6W	60	112	88	24	54	2.2	70	5	49.5	18	6	5.2	0.9
3	15W	70	124	92	32	64	2.2	82	6	58	25	6	5.2	1.6
4	25W	80	130	98	32	73	2.2	94	7	66.5	25	8	7	2.5
5	40W	90	154	118	36	83	2.2	104	7	73.6	30	10	9	2.6
	60W	90	173	137	36	83	2.2	104	7	73.6	30	12	11	3.4
	90W	90	198	162	36	83	2.2	104	7	73.6	30	12	11	3.4
	120W	90	198	162	36	83	2.2	104	7	73.6	30	12	11	3.4
	150W	90	198	162	36	83	2.2	104	7	73.6	30	12	11	3.4

* Reversible motor: 30 mins rated time limited.

BRAKE MOTOR



A brake device is employed in the brake motor. Suitable for operation where load should be maintained as the brake performs.



Dimension (mm)

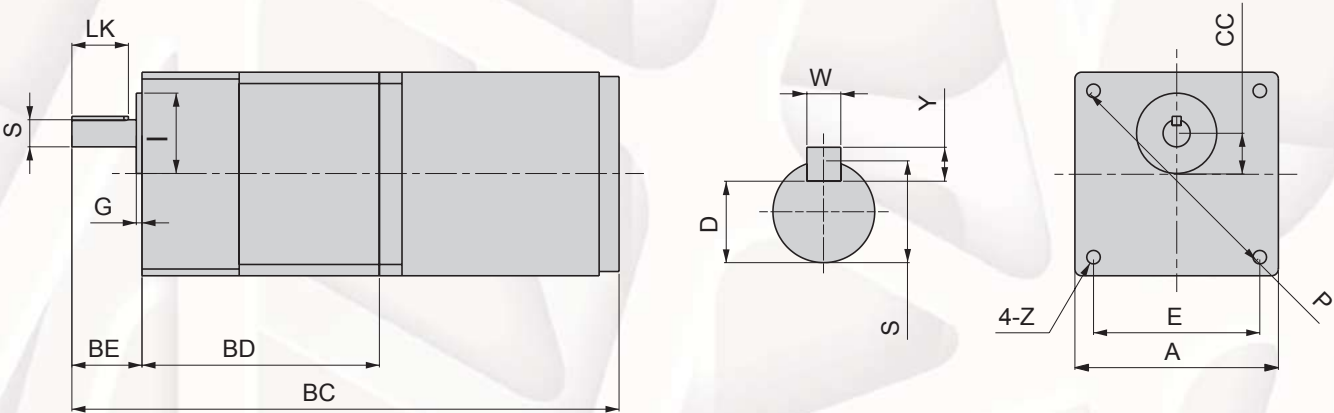
Model	Output (w)	A	BC	BD	BE	I	G	P	Z	E	Shaft			Weight (KG)
											LK	S	D	
2	6W	60	152.5	128.5	24	54	2.2	70	5	49.5	18	6	5.2	1
3	15W	70	164.2	132.2	32	64	2.2	82	6	58	25	6	5.2	1.5
4	25W	80	169.2	137.2	32	73	2.2	94	7	66.5	25	8	7	2
5	40W	90	198.5	162.5	36	83	2.2	104	7	73.6	30	10	9	3
	60W	90	224.5	188.5	36	83	2.2	104	7	73.6	30	12	11	3.3
	90W	90	249.9	213.9	36	83	2.2	104	7	73.6	30	12	11	4
	120W	90	249.9	213.9	36	83	2.2	104	7	73.6	30	12	11	4
	150W	90	249.9	213.9	36	83	2.2	104	7	73.6	30	12	11	4

* Reversible motor: 30 mins rated time limited.

CLUTCH BRAKE MOTOR



Precisely position. Idea for high-frequency starting and stopping.

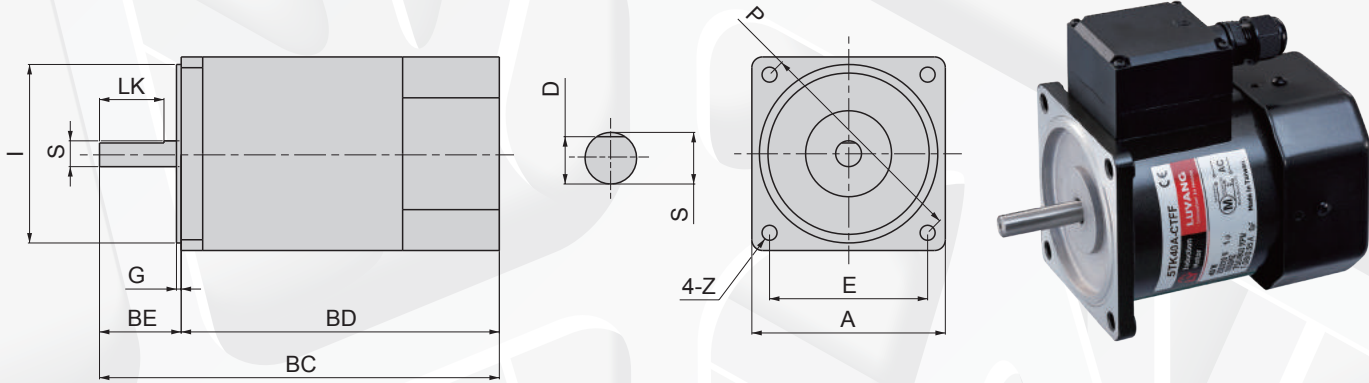


Dimension (mm)

Model		Output (w)	A	BC	BD	BE	I	G	P	Z	E	CC	Shaft			Weight (KG)
													S	D	WxYxLK	
5	40W (GN)	3~18R	90	243	105	32	34	2.2	104	6.4	73.6	18	12	9.5	4x4x25	5.52
		20~180R	90	259	121	32	34	2.2	104	6.4	73.6	18	12	9.5	4x4x25	5.54
	60W (GN)	3~18R	90	262	105	32	34	2.2	104	6.4	73.6	18	12	9.5	4x4x25	5.52
		20~180R	90	278	121	32	34	2.2	104	6.4	73.6	18	12	9.5	4x4x25	5.54
	60W(GU)		90	284	127	36	34	6	104	6.4	73.6	18	15	12	5x5x25	5.54
	90W(GU)		90	312	127	36	34	6	104	6.4	73.6	18	15	12	5x5x25	6.39
	120W(GU)		90	312	127	36	34	6	104	6.4	73.6	18	15	12	5x5x25	6.39
	150W(GU)		90	312	127	36	34	6	104	6.4	73.6	18	15	12	5x5x25	6.39

* Reversible motor: 30 mins rated time limited.

Torque Motor



R" means voltage regulator built in the terminal box

Dimension (mm)

Model	A	BC	BD	BE	I	G	P	Z	E	Shaft			Weight (KG)
										LK	S	D	
2TK3A(GN)-A(C)	60	100	76	24	54	2.5	70	5	49.5	18	6	5.2	0.96
3TK6A(GN)-A(C)	70	112	80	32	64	2.5	82	6	58	25	6	5.2	1.32
4TK10A(GN)-A(C)	80	118	86	32	73	2.5	94	7	66.5	25	8	7	1.54
5TK20A(GN)-A(C)	90	142	106	36	83	3	104	7	73.6	30	10	9	2.72
5TK40A(GU)-AFF(CFF)	90	184	172	36	83	3	104	7	73.6	30	12	11	3.59

Motors of features

1. Torque motor is a specialized form of induction motor which is capable of operating indefinitely while stalled. 60V for operating indefinitely; 60V above for short-time operating; 100V only for 5 minutes operating.

Torque will be enhanced while stalled, however over mechanical enduring torque and hard hit stop are prohibited.

2. A common application of a torque motor would be the supply-and take-up reel motor in a tape drive. Motors allow a relatively constant light tension to the applied to the tape.

Types of torque motors

1. General type (regulator is not included): Need to install the voltage regulator on the exterior of motors in order to adjust speed and torque.

2. Inner-motor type (regulator is included): Voltage regulator built in the terminal box, it can control the speed and torque of motors easily.

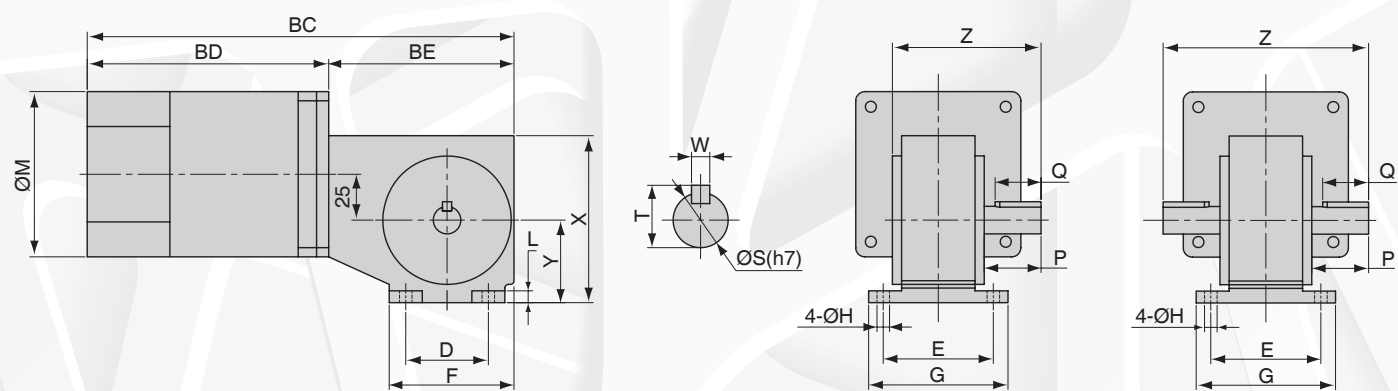
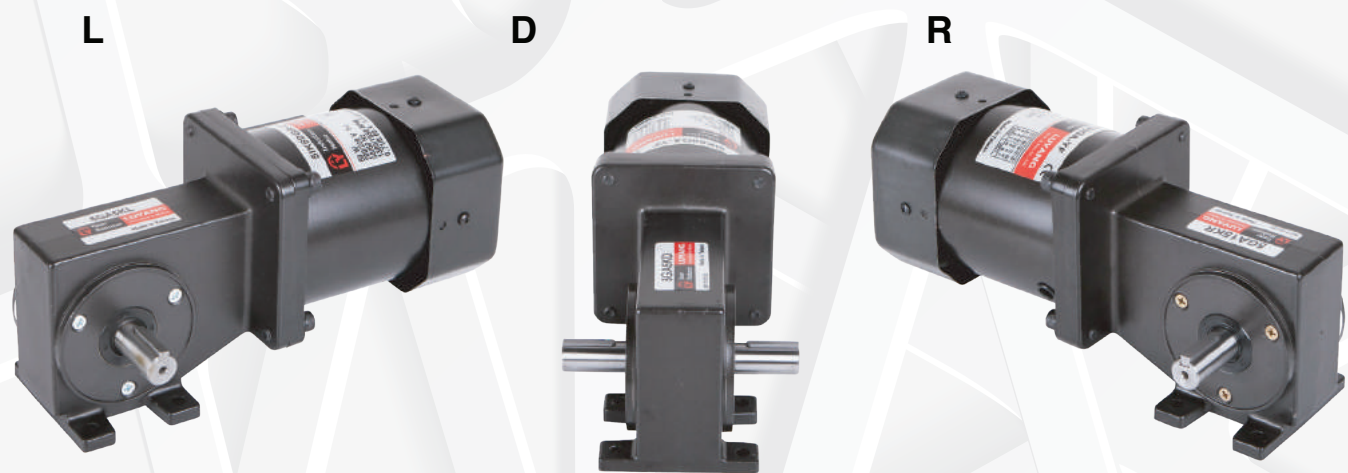
Torque Motor

Specification

Model	Operating Time	Output (W)	Voltage (V)	Freq. (HZ)	Rated RPM (rpm)	Staring Torque (Kgcm)	Rated Torque (Kgcm)	Rated Current (A)	Capacitor Capacity (μF)
2TK3A(GN)-A	5 mins/ Continuous	3/1	110/60	50	750	0.7/0.25	0.39/0.13	0.49/0.3	7
		3.5/1.2	110/60	60	900	0.7/0.25	0.38/0.13	0.49/0.3	7
3TK6A(GN)-A	5 mins/ Continuous	6/2.5	110/60	50	750	1.4/0.55	0.78/0.32	0.72/0.48	10
		7.5/2.7	110/60	60	900	1.4/0.45	0.82/0.29	0.72/0.48	8
4TK10A(GN)-A	5 mins/ Continuous	10/3.5	110/60	50	750	2.2/0.75	1.30/0.46	0.91/0.55	12
		12/3.5	110/60	60	900	2.1/0.7	1.30/0.38	0.91/0.55	8
5TK20A(GN)-A	5 mins/ Continuous	20/6	110/60	50	750	3.5/1.1	2.6/0.78	1.22/0.76	15
		20/6	110/60	60	900	3.0/1.0	2.2/0.65	1.22/0.76	12
5TK40A(GU)-AFF	5 mins/ Continuous	40/14	110/60	50	750	7.6/3.2	5.2/1.85	1.7/1	40
		40/14	110/60	60	900	6.3/2.3	4.4/1.55	1.7/1	25
2TK3A(GN)-C	5 mins/ Continuous	3/1	220/110	50	750	0.7/0.25	0.39/0.13	0.23/0.15	1.5
		3.5/1.2	220/110	60	900	0.7/0.25	0.38/0.13	0.25/0.16	1.5
3TK6A(GN)-C	5 mins/ Continuous	6/2.5	220/110	50	750	1.4/0.55	0.78/0.32	0.4/0.22	2
		7.5/2.7	220/110	60	900	1.4/0.45	0.82/0.29	0.4/0.25	2
4TK10A(GN)-C	5 mins/ Continuous	10/3.5	220/110	50	750	2.2/0.75	1.30/0.46	0.47/0.27	2
		12/3.5	220/110	60	900	2.1/0.7	1.30/0.38	0.51/0.31	2
5TK20A(GN)-C	5 mins/ Continuous	20/6	220/110	50	750	3.5/1.1	2.6/0.78	0.74/0.4	3
		20/6	220/110	60	900	3.0/1.0	2.2/0.65	0.72/0.39	3
5TK40A(GU)-CFF	5 mins/ Continuous	40/14	220/110	50	750	7.6/3.2	5.2/1.85	1.1/0.6	6
		40/14	220/110	60	900	6.3/2.3	4.4/1.55	1.08/0.55	6

Add "R" means torque motor with voltage adjust controller.
Voltage : 110/60 (Supply voltage is 110V, however adjusting to 110V by VR for 5 mins operating, to 60V below for indefinite operating.)
Voltage : 220/110 (Supply voltage is 220V, however adjusting to 220V by VR for 5 mins operating, to 110V below for indefinite operating.)

ALLOY WORM MOTOR



Dimension (mm)

Output (w)	BC	BD	BE	D	E	F	G	H	L	M	X	Y	Direction				Shaft			
													Z		D	P	Q	W	S	T
													L	R						
40W	214	113	101	45	60	68	76	6.8	6.5	90	91	45	81	81	112	31	25	5	15	17
60W	233	132	101	45	60	68	76	6.8	6.5	90	91	45	81	81	112	31	25	5	15	17
90W	256	155	101	45	60	68	76	6.8	6.5	90	91	45	81	81	112	31	25	5	15	17

Specification

Ratio	5, 10, 15, 20, 30, 40, 50, 60 etc. (90W R30 above only for light loading)
Maintenance	R25 above: 50Kgcm
Over-Hanging Load	40W, 60W: 40Kg (10cm from output shaft)
Thrust Load	40W, 60W, 90W: 15Kg
Install Environment	Ambient Temperature 0°C~+40°C; Ambient humidity below 85% (No Mist)
Direction of Output Shaft	R : Right side; L : Left side; D : Double shafts

* Reversible motor: 30 mins rated time limited.

DC Motor

Indication of DC Motor

D

05

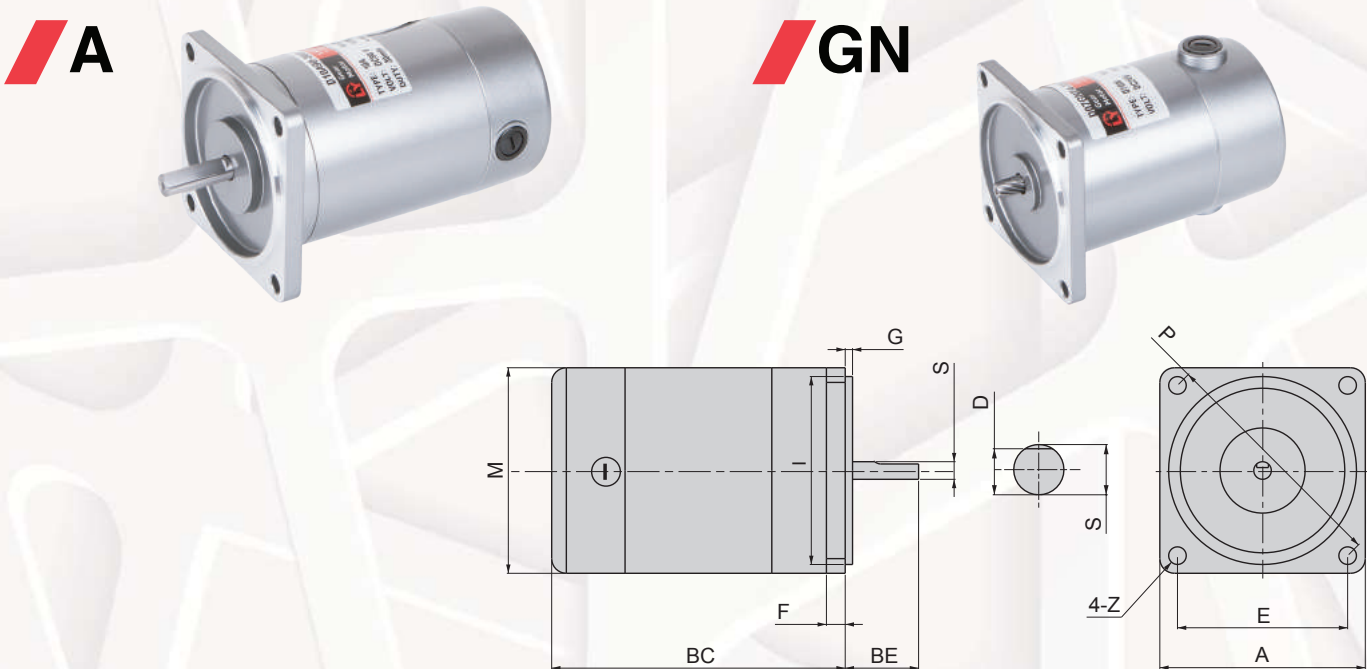
GN

12

–

1800

Model	Dimension	Motor Shaft	Voltage	RPM
Permanent Magnet DC Motor	05 : 60mm	A: Round shaft	12 : 12V	1800
	06 : 70mm	GN: Pinion shaft (Model 05~08)	24 : 24V	3000
	07 : 80mm		90 : 90V	
	08 : 90mm		180 : 180V	
	10 : 90mm			
	12 : 90mm			
	18 : 90mm			



Dimension (mm)											
Model	A	BC	BE	I	M	F	S	G	Z	P	E
DC	05	60	102.5	24	54	6.4	8	2.2	4.5	70	49.5
	06	70	102.5	25	64	6.4	8	2.2	6	82	58
	07	80	109	25	73	6.5	8	2.2	6	94	66.5
	08	90	118	32	83	8.4	10	2.2	7	104	73.6
	10	90	138	32	83	8.4	10/12	2.2	7	104	73.6
	12	90	161	32	83	10.5	12	2.2	8	104	73.6
	18	90	181	32	83	10.5	12	2.2	8	104	73.6

* Induction : 1800 RPM
* 30 mins rated time limited : 3000 RPM

"Rated Time limited" means motor must be cooled down after 30mins runing. Otherwise, motor is possible to be damaged.

Motor Type		Voltage (V)	Rated Current (A)	Rated RPM (RPM)	Output		Weight (Kg)	Collocated Gearhead
Model	Motor Shaft				Watt (W)	Torque (Kg-cm)		
DC	05	A	GN	12/24	1.4/0.7	1800	10	0.6
					2.8/1.4	3000	20	0.7
		90			0.23	1800	10	0.6
					0.37	3000	20	0.7
	06	A	GN	12/24	2.2/1.1	1800	20	1.13
					4.0/2.0	3000	36	1.17
		90/180			0.3/0.15	1800	20	1.13
					0.53/0.26	3000	36	1.17
	07	A	GN	12/24	3.3/1.65	1800	30	1.70
					6.6/3.3	3000	60	1.95
		90/180			0.44/0.22	1800	30	1.70
					0.88/0.44	3000	60	1.95
	08	A	GN	12/24	4.4/2.2	1800	40	2.26
					7.7/3.86	3000	70	2.27
		90/180			0.59/0.29	1800	40	2.26
					1.03/0.5	3000	70	2.27
	10	A	GU	12/24	7.2/3.5	1800	65	3.68
					13.2/6.6	3000	120	3.89
		90/180			0.96/0.48	1800	65	3.68
					1.77/0.88	3000	120	3.89
	12	A	GU	12/24	11/5.5	1800	100	5.66
					22/11	3000	200	6.49
		90/180			1.47/0.74	1800	100	5.66
					2.94/1.47	3000	200	6.49
	18	A	GU	12/24	22/11	1800	200	11.3
					27.6/13.8	3000	250	8.1
		90/180			2.9/1.5	1800	200	11.3
					3.7/1.8	3000	250	8.1

※Please contact us while the motor is running under the low temperature environment.
※ Induction : 1800 RPM
※30 mins rating : 3000 RPM

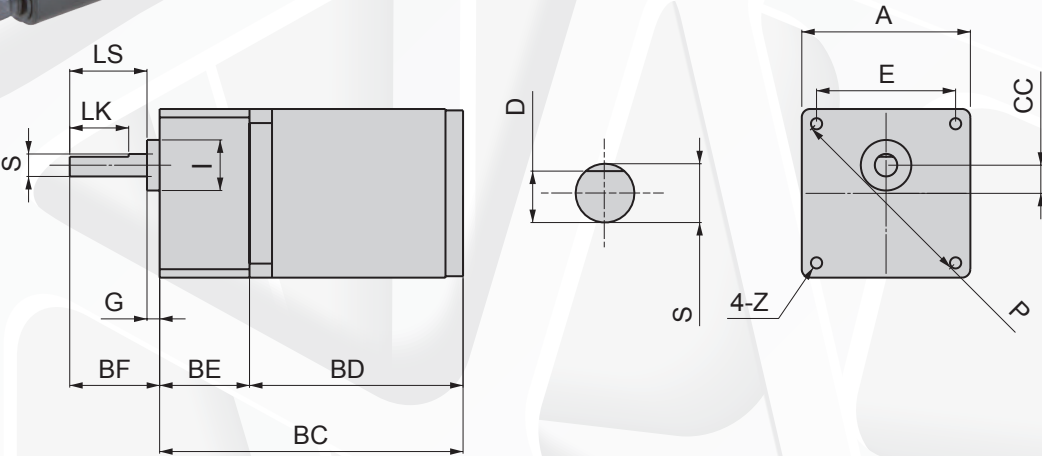
MOTOR WITH GEAR BOX



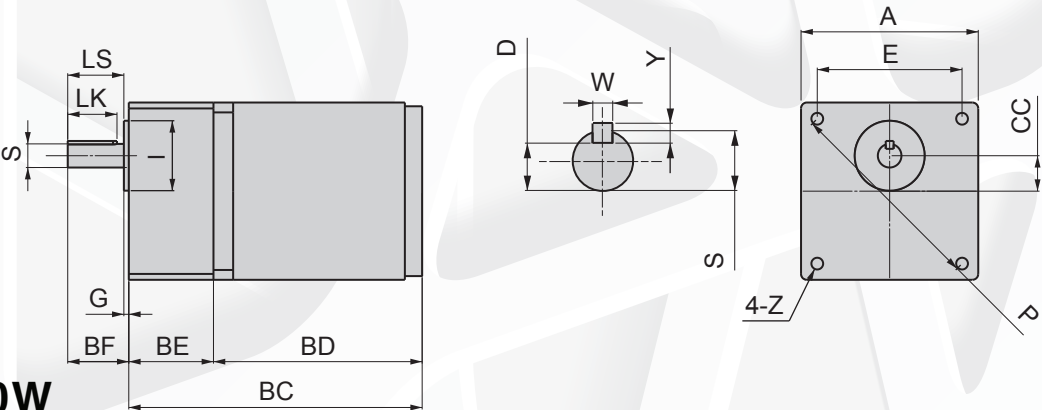
Dimension (mm)

Model	Output (w)	Ratio	A	BC	BE	BD	BF	CC	I	G	P	Z	E	Output Shaft			
														LS	S	D	WxYxLK
2	6W (GN)	3~18	60	108	32	76	32	10	18	4.5	70	4.4	49.5	27.5	8	7	--
		20~180		118	42												
3	15W (GN)	3~18	70	112	32	80	32	15	30	3	82	5.5	58	29	10	7.5	4x4x25
		20~180		122	42												
4	25W (GN)	3~18	80	122	36	86	32	15	34	2.5	94	5.5	66.5	29.5	10	7.5	4x4x25
		20~180		136	50												
5	40W (GN)	3~18	90	149	43	106	32	18	34	2.5	104	6.4	73.6	29.5	12	9.5	4x4x25
		20~180		165	59												
	60W (GN)	3~18	90	168	43	125	32	18	34	2.5	104	6.4	73.6	29.5	12	9.5	4x4x25
		20~180		184	59												

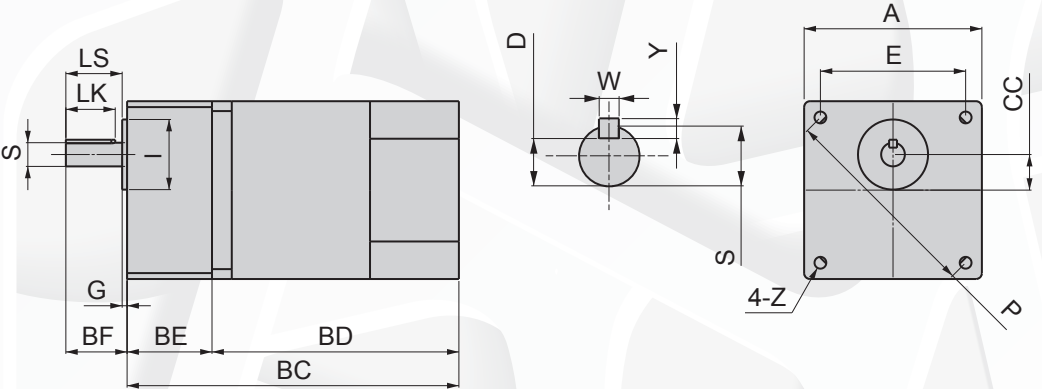
* Reversible motor: 30 mins rated time limited.



6W

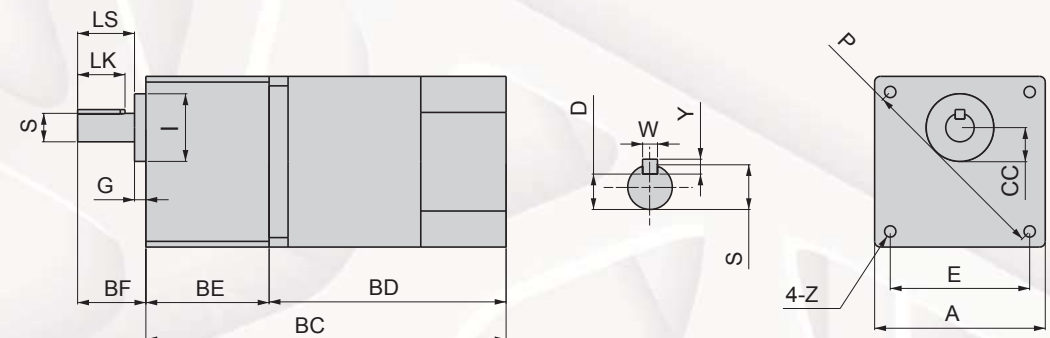


15W-40W



60W

MOTOR WITH GEAR BOX



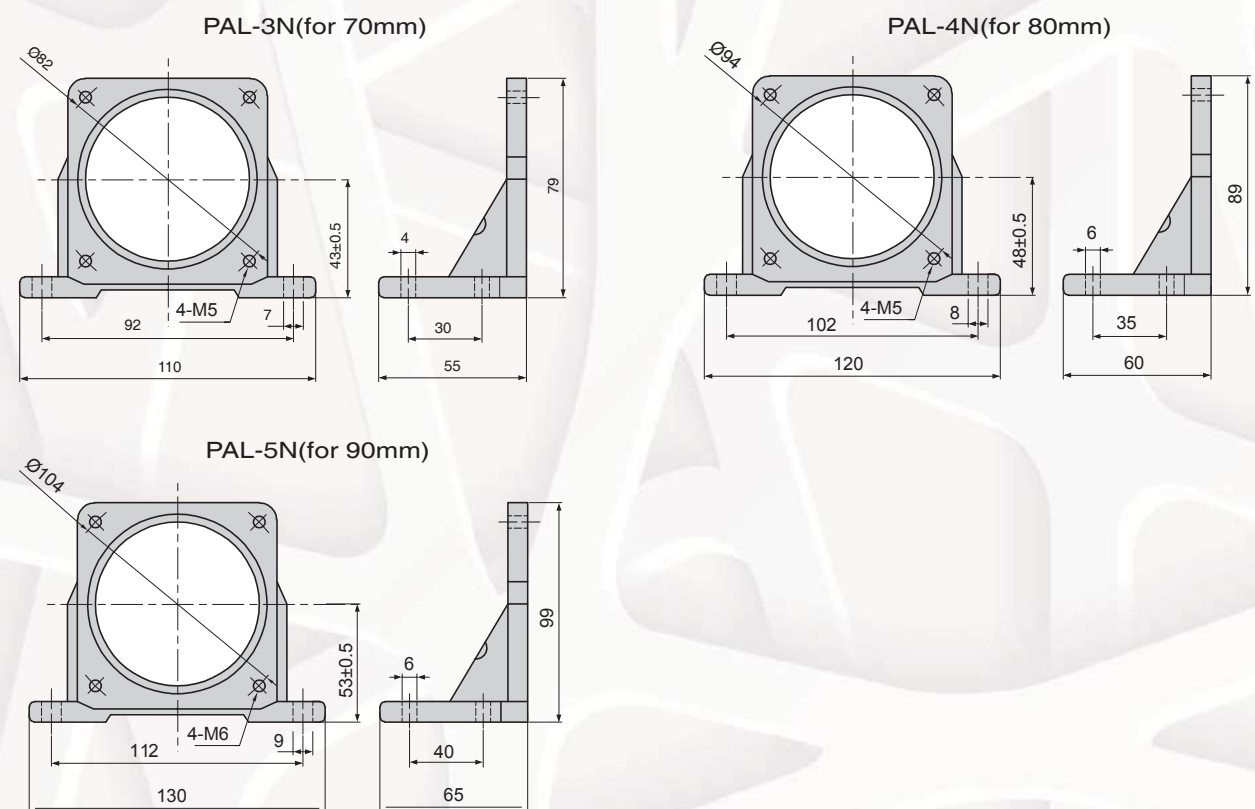
60W(GU)-150W

Dimension (mm)

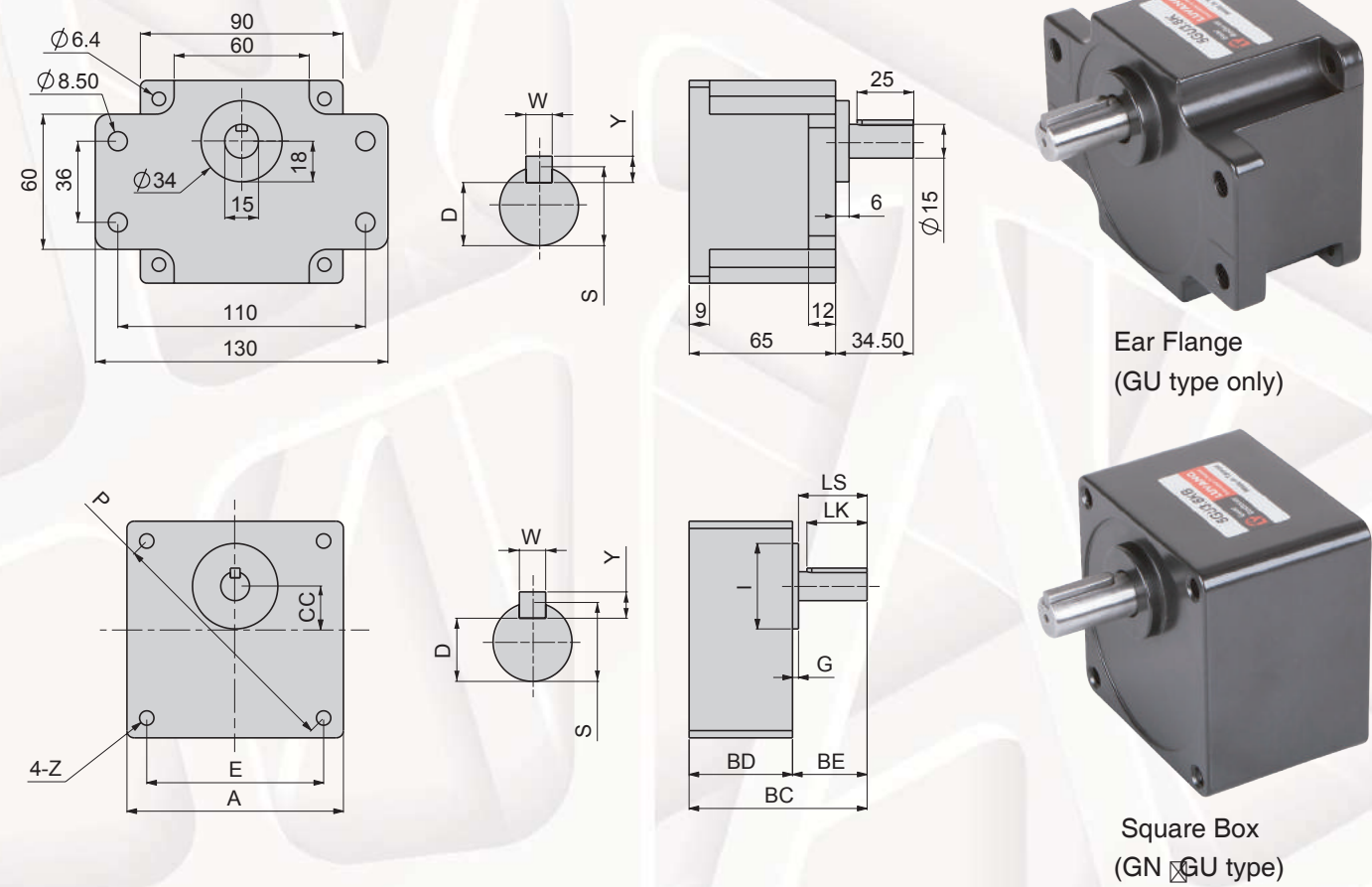
Model	Output (w)	A	BC	BE	BD	BF	CC	I	G	P	Z	E	Output Shaft			
													LS	S	D	WxYxLK
5 (GU)	60W (GU)	90	190	65	125	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25
	90W (GU)	90	213	65	148	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25
	120W (GU)	90	213	65	148	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25
	150W (GU)	90	213	65	148	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25

* Reversible motor: 30 mins rated time limited.

L Bracket Stand



Gear Box



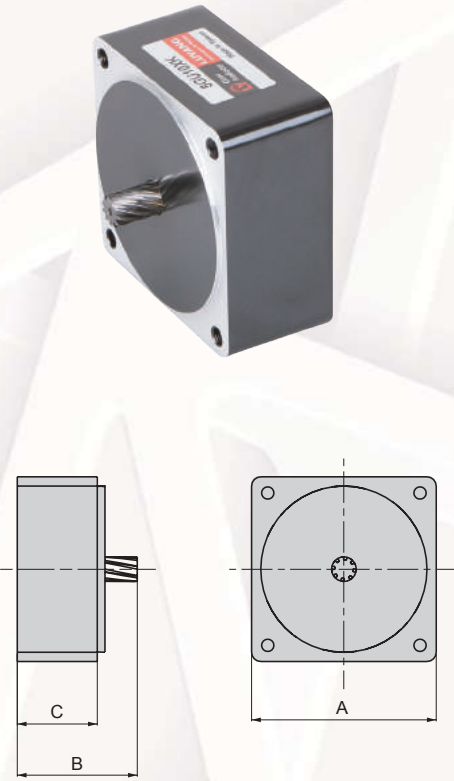
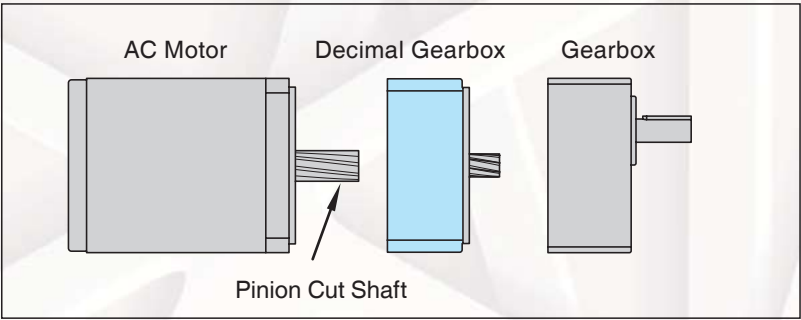
Dimension (mm)

Model	Output (w)	Ratio	A	BC	BD	BE	CC	I	G	P	Z	E	Output Shaft				Weight (KG)
													LS	S	D	WxYxLK	
2	6W (GN)	3~18	60	64	32	32	10	18	4.5	70	4.4	49.5	27.5	8	7	--	0.34
		20~180		74	42												0.39
3	15W (GN)	3~18	70	64	32	32	15	30	3	82	5.5	58	30	10	7.5	4x4x25	0.52
		20~180		74	42												0.58
4	25W (GN)	3~18	80	68	36	32	15	34	2.5	94	5.5	66.5	29.5	10	7.5	4x4x25	0.66
		20~180		82	50												0.81
5	40W (GN)	3~18	90	74	43	32	18	34	2.5	104	6.4	73.6	28.5	12	9.5	4x4x25	1.2
		20~180		90	59												1.4
	60W (GN)	3~18	90	74	43	32	18	34	2.5	104	6.4	73.6	28.5	12	9.5	4x4x25	1.2
		20~180		90	59												1.4
	60W (GU)	3~18	90	101	65	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25	1.2
		20~180		101	65												1.4
	90W (GU)	3~18	90	101	65	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25	1.2
		20~180		101	65												1.4
	120W (GU)	3~18	90	101	65	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25	1.2
		20~180		101	65												1.4
	150W (GU)	3~18	90	101	65	36	18	34	6	104	6.4	73.6	30	15	12	5x5x25	1.2
		20~180		101	65												1.4

Decimal Gear Box

1:10

If gearbox cannot provide enough ratio, decimal gear box could be considered to add one or more gearboxes to get preferable ratio.



Specification

Item	Standard Specification
Ratio	1 : 10
Frame Model	2、3、4、5

Dimension (mm)

Model	Output (w)	A	B	C
2	6W	60	39	26
3	15W	70	39	26
4	25W	80	39	26
5	GN 40W~60W	90	59	40
	GU 60W~150W	90	59	40

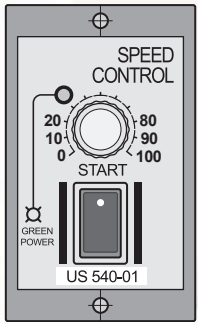
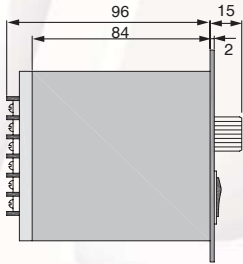
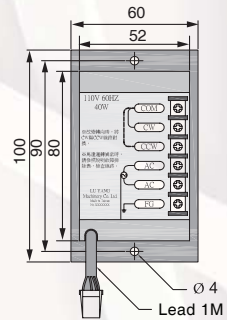
US/UX MOTOR SPEED CONTROLLER



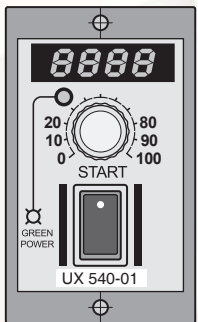
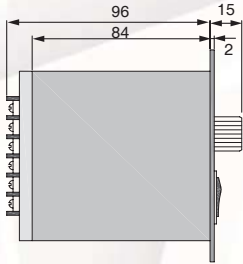
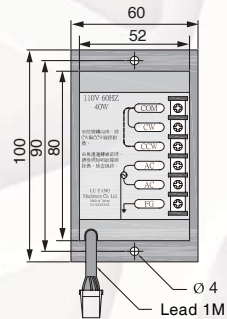
Indication of Combinated Speed Controller

US	315	0	2
Model	Available Output	Type	Voltage
US Combinated speed controller UX Digital speed controller	206 : 6W 315 : 15W 425 : 25W 540 : 40W 560 : 60W 590 : 90W 5120 : 120W 5150 : 150W	0: Induction 1: Reversible	1: 1Ø110V(60Hz) 2: 1Ø220V(60Hz) 2E: 1Ø220~240V(50Hz) 10: 1Ø100V(60Hz) 20: 1Ø200V(60Hz) 10E: 1Ø100V(50Hz) 20E: 1Ø200V(50Hz)

US Speed Controller



UX Digital Speed Controller



Type	Voltage (V)	Frequency (Hz)	Rated Current (A)	Output (W)	Speed Range (RPM)	Speed Rate of Change (%)	Velocity Reaction	Electronic Brake	Velocity Safety	Ambient Condition
01	100~110V	60	5	6-150	90~1600	5%	0.5 (Sec)	--	☉	-10° C~+50° C
02	200~220V									
02E	200~240V	50	5	6-150	90~1350	5%	0.5 (Sec)	--	☉	-10° C~+50° C

Separated Speed Controller

Indication of Separated Speed Controller

S

S

11

Model	Feature	Voltage
S : Separated speed controllere	S : Speed control	11: 1Ø100~110V(60Hz) 11E: 1Ø100V(50Hz) 22: 1Ø200~220V(60Hz) 22E: 1Ø200~240V(50Hz)

Instantaneous Brake Pack

Indication of Instantaneous Brake Pack

SB

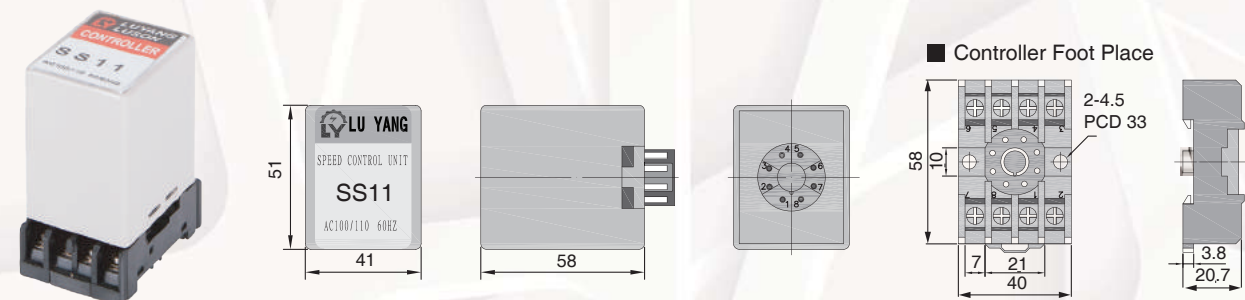
32

-

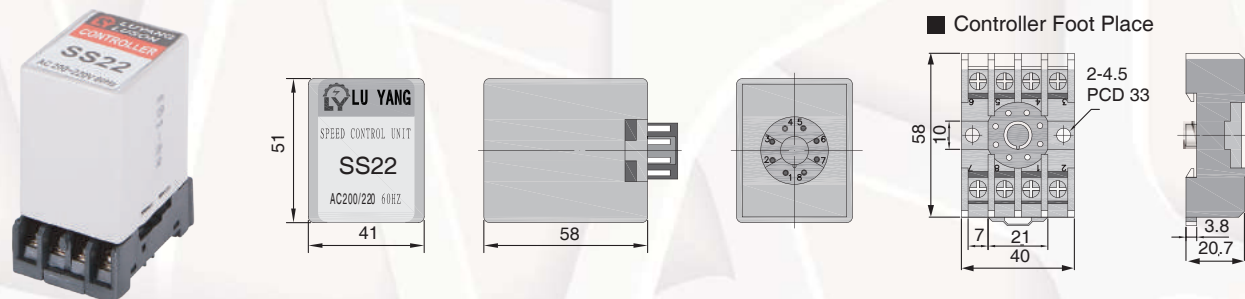
IN

Model	Voltage	Feature
SB : Electronic instantaneous brake pack	31: 1Ø100~110V 32: 1Ø200~240V	IN: Inch

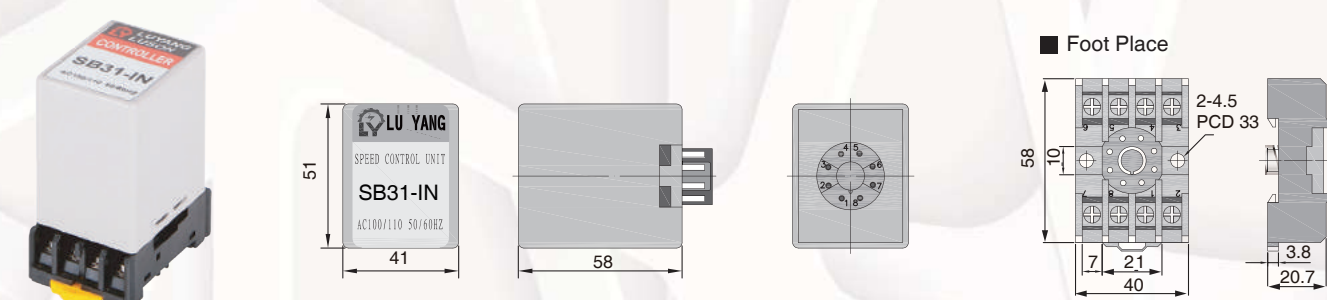
SS11 Separated Speed Controller



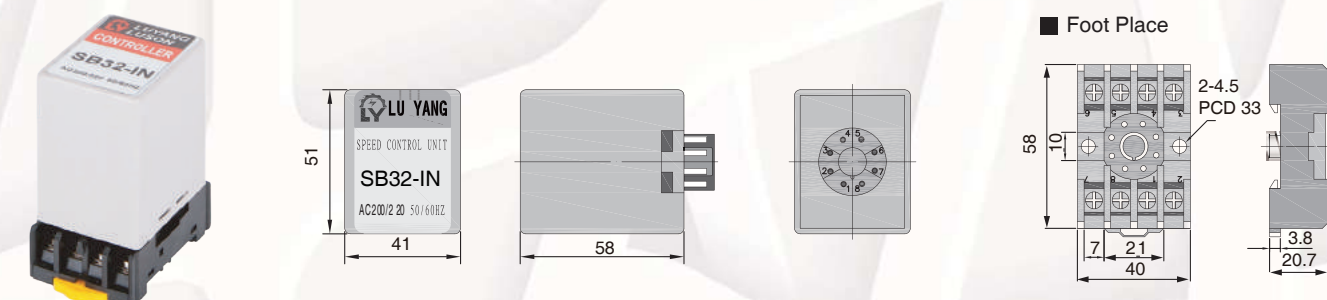
SS22 Separated Speed Controller



SB31-IN Instantaneous Brake Pack



SB32-IN Instantaneous Brake Pack



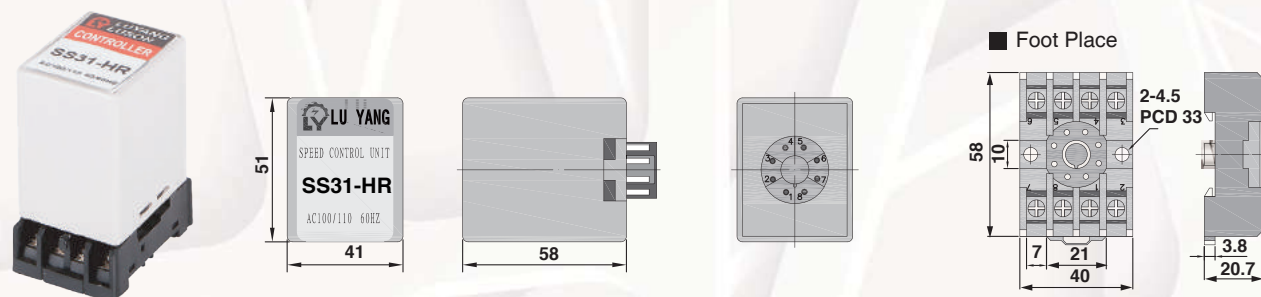
Type	Voltage (V)	Frequency (Hz)	Rated Current (A)	Output (W)	Speed Range (RPM)	Speed Rate of Change (%)	Velocity Reaction	Electronic Brake	Velocity Safety	Ambient Condition
SS11	100~110V	60	3	6-150	90~1600	5%	0.5 (Sec)	--	⊙	-10°C~+50°C
SS22	200~220V									
SS11E	100V	50	3	6-150	90~1350	5%	0.5 (Sec)	--	⊙	-10°C~+50°C
SS22E	200~240V									

Speed Control Brake Pack

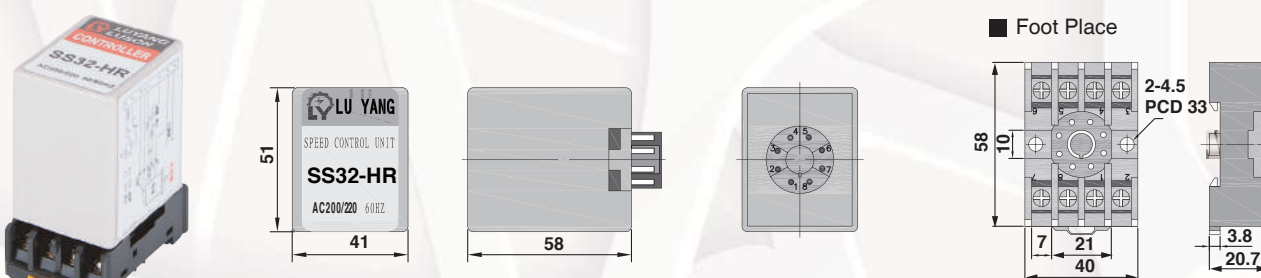
- Indication of Speed Control & Brake Pack

Model	Feature	Voltage	Other
S : Separated	S : Speed control	31: 1Ø100~110V (60Hz) 31E: 1Ø100V (50Hz) 32: 1Ø200~220V (60Hz) 32E: 1Ø200~240V (50Hz)	HR: Speed variable brake

SS31-HR Instantaneous Brake +Speed Control



SS32-HR Instantaneous Brake +Speed Control



Model	Voltage (V)	Freq-ency (Hz)	Rated Current (A)	Output (W)	Speed Range	Speed Rate of Change (%)	Velocity Reaction	Electronic Brake	Velocity Safety	Ambient Condition
SS31-HR	100~110V	60	5	6-120	90~1600	5%	0.5 (Sec)			-10°C~+50°C
SS32-HR	200~220V									
SS31E-HR	100V	50	5	6-120	90~1350	5%	0.5 (Sec)			-10°C~+50°C
SS32E-HR	200~240V									

Wire Drawing - K Series

Connection Diagram of Controller

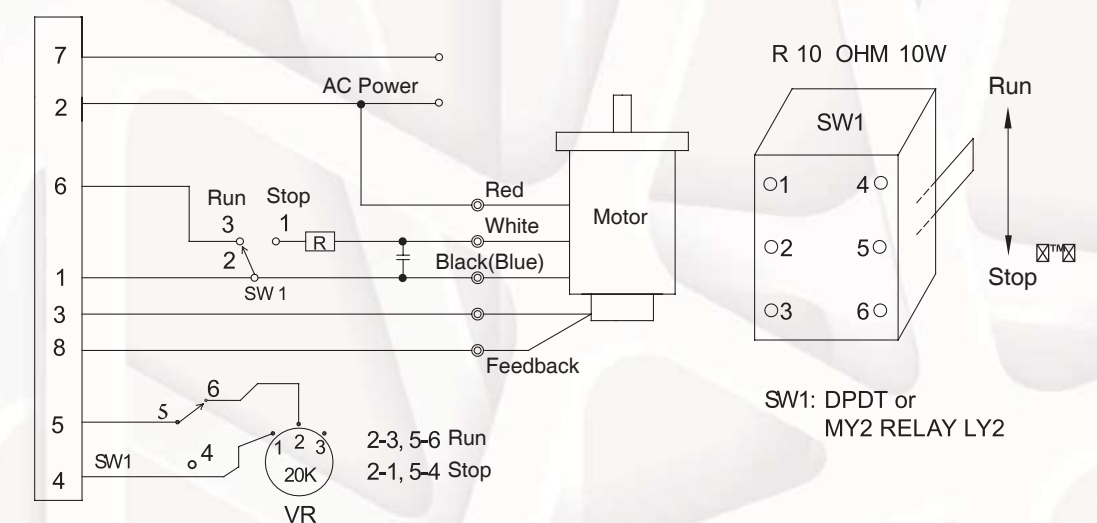
Note:

1. Confirm controller and motor output specification before connection.
2. While using motor overheated protection, it should be connected in series with motor control cables.
3. Speed Control motor with fan should be connected to entry power.
4. As speed Control motor with excitationless brake, excitationless power supply should be connected in parallel with motor power supply.
5. As motor stops 0.5 seconds, it isn't allowed to run CW or CCW at this moment.
6. The switch contact must be AC 125V 5A or AC 250V 5A above.
7. The motor is allowed to use under 90°C.

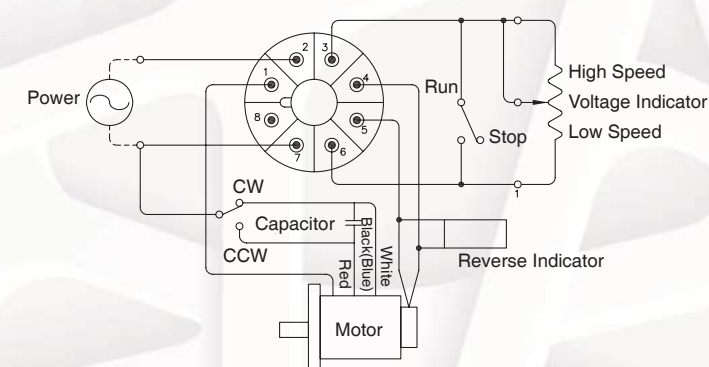
SS31-HR SS32-HR(8Pin)

*** Pin 3, 8, 5, 4 Signal Input

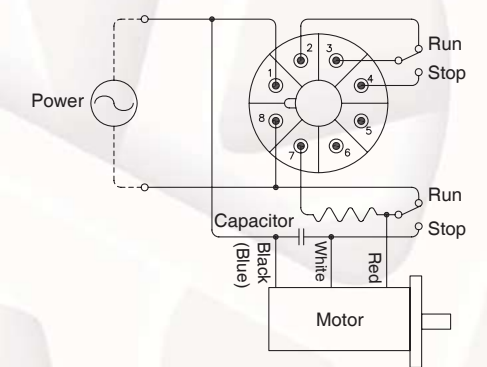
Check Carefully Before Applying AC



SS11 SS22

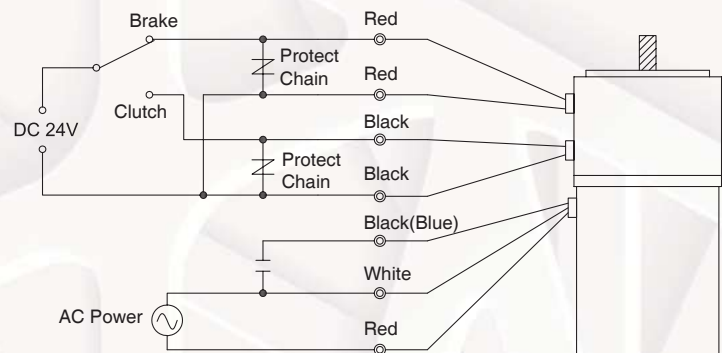


SB31-IN SB32-IN

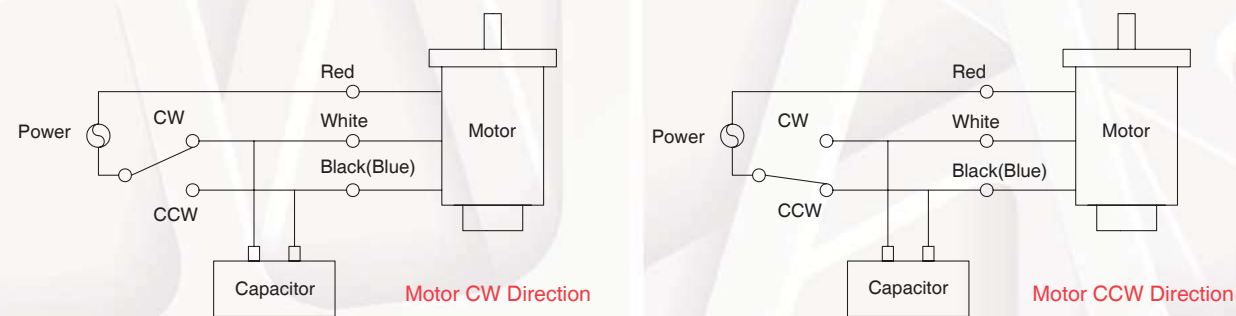


Wire Drawing - K Series

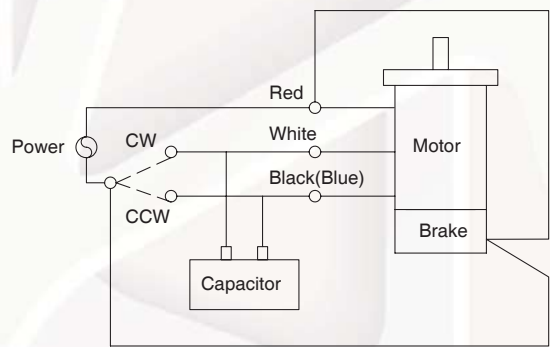
Wire Drawing of Clutch Brake Motor



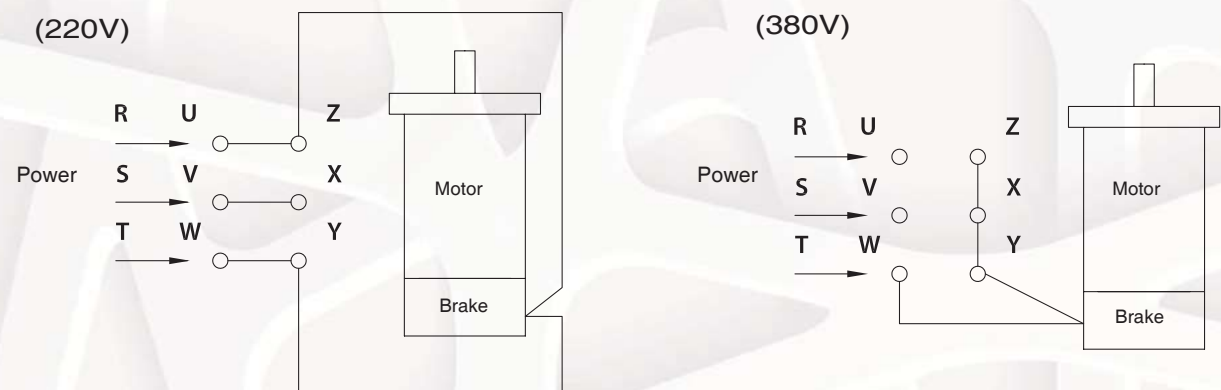
Wire Drawing of Single-phase Motor



Wire Drawing of Single-Phase Brake Motor



Wire Drawing of 3-Phase Brake Motor (6 Wires)



Motor Specification List - K Series

INDUCTION MOTOR (CONTINUOUS RATING)

MODEL		OUTPUT (W)	VOLTAGE (V)	POLE (P)	FREQ- ENCY (HZ)	STARTING TORQUE (KGCM)	RATED TORQUE (KGCM)	RATED CURRENT (A)	RATED RPM (R/MIN)	CAPACITOR (μ)
ROUND SHAFT	GN/GU SHAFT									
2IK6A-A	2IK6GN-A	6	1Ø 110	4	60	0.5	0.36	0.24	1600	3(250V)
2IK6A-C	2IK6GN-C		1Ø 220	4	50	0.5	0.46	0.12	1250	0.8(450V)
3IK15A-A	3IK15GN-A	15	1Ø 110	4	60	0.87	0.91	0.31	1600	4.5(250V)
3IK15A-C	3IK15GN-C		1Ø 220	4	50	0.98	1.15	0.19	1250	1.2(450V)
4IK25A-A	4IK25GN-A	25	1Ø 110	4	60	1.2	1.47	0.47	1650	6(250V)
4IK25A-C	4IK25GN-C		1Ø 220	4	50	1.2	1.82	0.28	1350	1.5(450V)
4IK25A-S	4IK25GN-S	25	3Ø 220	4	50	6.12	1.77	0.28	1350	--
4IK25A-U	4IK25GN-U		3Ø 380	4	60	4.92	1.48	0.23	1650	--
5IK40A-A	5IK40GN-A	40	1Ø 110	4	60	1.7	2.28	0.63	1650	10(250V)
5IK40A-C	5IK40GN-C		1Ø 220	4	50	2.17	3.00	0.33	1350	2.5(450V)
5IK40A-S	5IK40GN-S	40	3Ø 220	4	50	12.13	2.75	0.33	1350	--
5IK40A-U	5IK40GN-U		3Ø 380	4	60	9.44	2.29	0.28	1650	--
5IK60A-A	5IK60(GN-GU)-A	60	1Ø 110	4	60	2.77	3.51	0.95	1650	14(250V)
5IK60A-C	5IK60(GN-GU)-C		1Ø 220	4	50	3.28	4.86	0.55	1350	3.5(450V)
5IK60A-S	5IK60(GN-GU)-S	60	3Ø 220	4	50	15.63	4.22	0.45	1350	--
5IK60A-U	5IK60(GN-GU)-U		3Ø 380	4	60	12.1	3.53	0.40	1650	--
5IK90A-A	5IK90GU-A	90	1Ø 110	4	60	4.56	5.19	1.35	1650	22(250V)
5IK90A-C	5IK90GU-C		1Ø 220	4	50	4.87	6.35	0.67	1350	5(450V)
5IK90A-S	5IK90GU-S	90	3Ø 220	4	50	19.73	6.45	0.66	1350	--
5IK90A-U	5IK90GU-U		3Ø 380	4	60	15.14	5.40	0.55	1650	--
5IK120A-A	5IK120GU-A	120	1Ø 110	4	60	4.9	7.12	1.78	1650	25(250V)
5IK120A-C	5IK120GU-C		1Ø 220	4	50	5.08	8.48	0.86	1350	6(450V)
5IK120A-S	5IK120GU-S	120	3Ø 220	4	50	5.06	6.93	0.87	1650	--
5IK120A-U	5IK120GU-U		3Ø 380	4	60	21.71	9.00	0.76	1350	--
5IK150A-A	5IK150GU-A	150	1Ø 110	4	60	16.35	7.49	0.68	1650	--
5IK150A-C	5IK150GU-C		1Ø 220	4	50	29.12	8.63	0.44	1350	--
5IK150A-S	5IK150GU-S	150	3Ø 220	4	50	21.92	7.16	0.39	1650	--
5IK150A-U	5IK150GU-U		3Ø 380	4	60	7.06	8.91	2.13	1650	30(250V)
5IK150A-S	5IK150GU-S	150	1Ø 220	4	50	7.74	11.3	1.06	1350	7(450V)
5IK150A-U	5IK150GU-U		1Ø 220	4	60	1.16	9.19	1.10	1650	--
5IK150A-S	5IK150GU-S	150	3Ø 220	4	50	29.1	11.2	0.94	1350	--
5IK150A-U	5IK150GU-U		3Ø 380	4	60	21.9	9.3	0.81	1650	--
5IK150A-S	5IK150GU-S	150	1Ø 220	4	50	29.1	11.2	0.54	1350	--
5IK150A-U	5IK150GU-U		3Ø 380	4	60	21.9	9.3	0.47	1650	--

Motor Specification List - K Series

REVERSIBLE MOTOR (30 MINS RATING)

MODEL		OUTPUT (W)	VOLTAGE (V)	POLE (P)	FREQUENCY (HZ)	STARTING TORQUE (KGCM)	RATED TORQUE (KGCM)	RATED CURRENT (A)	RATED RPM (R/MIN)	CAPACITOR (μ)
ROUND SHAFT	GN/GU SHAFT									
2RK6A-A	2RK6GN-A	6	1Ø 110	4	60	0.51	0.38	0.26	1550	3.5(250V)
2RK6A-C	2RK6GN-C		1Ø 220	4	50	0.48	0.45	0.13	1200	1(450V)
					60	0.51	0.38	0.15	1550	
3RK15A-A	3RK15GN-A	15	1Ø 110	4	60	0.97	0.98	0.38	1550	6(250V)
3RK15A-C	3RK15GN-C		1Ø 220	4	50	1.01	1.22	0.2	1200	1.5(450V)
					60	0.97	1.00	0.19	1550	
4RK25A-A	4RK25GN-A	25	1Ø 110	4	60	1.50	1.50	0.53	1600	8(250V)
4RK25A-C	4RK25GN-C		1Ø 220	4	50	1.60	1.82	0.30	1300	2(450V)
					60	1.50	1.50	0.27	1600	
4RK25A-S	4RK25GN-S	25	3Ø 220	4	50	5.98	1.85	0.28	1250	--
					60	4.65	1.56	0.24	1550	--
4RK25A-U	4RK25GN-U		3Ø 380	4	50	5.89	1.83	0.16	1250	
		40			60	4.66	1.53	0.14	1550	--
5RK40A-A	5RK40GN-A		1Ø 110	4	60	2.77	2.50	0.93	1600	12(250V)
5RK40A-C	5RK40GN-C		1Ø 220	4	50	2.77	3.00	0.43	1300	3(450V)
		40			60	2.77	2.50	0.43	1600	
5RK40A-S	5RK40GN-S		3Ø 220	4	50	11.41	2.82	0.37	1250	--
		40			60	8.49	2.40	0.36	1550	--
5RK40A-U	5RK40GN-U		3Ø 380	4	50	11.72	2.99	0.22	1250	
		60			60	9.03	2.51	0.21	1550	--
5RK60A-A	5RK60(GN-GU)-A		1Ø 110	4	60	3.88	4.15	1.24	1600	16(250V)
5RK60A-C	5RK60(GN-GU)-C		1Ø 220	4	50	3.88	4.86	0.62	1300	4(450V)
		60			60	3.88	4.15	0.58	1600	
5RK60A-S	5RK60(GN-GU)-S		3Ø 220	4	50	15.62	4.35	0.50	1250	--
		60			60	11.91	3.65	0.45	1550	--
5RK60A-U	5RK60(GN-GU)-U		3Ø 380	4	50	15.55	4.58	0.30	1280	
		90			60	11.84	3.85	0.28	1550	--
5RK90A-A	5RK90GU-A		1Ø110	4	60	5.57	5.21	1.81	1600	25(250V)
5RK90A-C	5RK90GU-C		1Ø220	4	50	5.57	6.35	0.77	1300	6(450V)
		90			60	5.57	5.21	0.88	1600	
5RK90A-S	5RK90GU-S		3Ø 220	4	50	17.25	6.61	0.69	1250	--
		90			60	14.72	5.58	0.59	1550	--
5RK90A-U	5RK90GU-U		3Ø 380	4	50	19.88	6.92	0.41	1250	
		120			60	14.95	5.85	0.38	1550	--
5RK120A-A	5RK120GU-A		1Ø 110	4	60	6.51	7.22	2.17	1600	27(250V)
5RK120A-C	5RK120GU-C		1Ø 220	4	50	6.51	8.94	1.08	1300	7(450V)
		120			60	6.51	7.22	1.19	1600	
5RK120A-S	5RK120GU-S		3Ø 220	4	50	24.09	8.95	0.83	1250	--
		120			60	18.79	7.46	0.76	1550	--
5RK120A-U	5RK120GU-U		3Ø 380	4	50	27.02	9.00	0.47	1250	
					60	19.72	7.43	0.45	1550	--

|| Above may be revised without notice.

Permissible Torque When Motor Plug-In

											60Hz Maximum Torque (Kgcm)											
Output (W)	Ratio (R)	3	5	6	7.5	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	
	RPM	600	360	300	240	200	144	120	100	90	72	60	50	36	30	24	20	18	15	12	10	
6W	Torque (T)	1.0	1.5	1.8	2.3	2.8	3.9	4.7	5.6	6.2	7.0	8.3	10	13.8	16	20	24	30	30	30	30	
15W		2.6	3.9	4.7	5.8	7.0	9.8	11.8	15	17	19	23	27.6	38.4	46	50	50	50	50	50	50	
25W		4.1	6.3	7.6	9.5	11.4	16	19	23	26	31	37	45	62	75	80	80	80	80	80	80	
40W		6.3	10	12	15	19	26	30	37	41	45	54	65	90	100	100	100	100	100	100	100	
60W		10	16	19	24	28	40	47	55	61	69	83	100	138	160	175	200	200	200	200	200	
90W		14	24	28	35	42	60	70	80	89	103	124	149	200	200	200	200	200	200	200	200	
120W		19	30	37	46	55	70	83	100	129	125	150	180	200	200	200	200	200	200	200	200	
150W		26	39	48	60	72	82	98	125	138	150	180	200	200	200	200	200	200	200	200	200	

* Reversible motor: 30 mins rated time limited.

		50Hz Maximum Torque(Kgcm)																			
Output (W)	Ratio (R)	3	5	6	7.5	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180
	RPM	500	300	250	200	166	120	100	83	75	60	50	42	30	25	20	17	15	12.5	10	8.3
6W	Torque (T)	1.2	1.9	2.3	2.9	3.4	4.7	5.7	6.8	7.6	9.3	11	13	16	20	24	30	30	30	30	30
15W		3.0	4.7	5.7	7.1	8.5	11.8	14.2	18	20	23	28	33	46	50	50	50	50	50	50	50
25W		5.0	7.8	9.4	11.8	14.1	19.6	23	28	31	38	46	55	76	80	80	80	80	80	80	80
40W		7.3	12	14.7	18	22	30	36	43	48	54	65	77	100	100	100	100	100	100	100	100
60W		12	19	22	28	34	48	55	62	69	82	98	118	164	196	200	200	200	200	200	200
90W		17	28	34	43	51	67	80	96	107	125	150	178	200	200	200	200	200	200	200	200
120W		24	40	48	60	71	89	107	129	143	162	194	200	200	200	200	200	200	200	200	200
150W		34	57	67	83	98	118	143	173	192	200	200	200	200	200	200	200	200	200	200	200

* Reversible motor: 30 mins rated time limited.

Article - L Series

Indication of Gearmotor

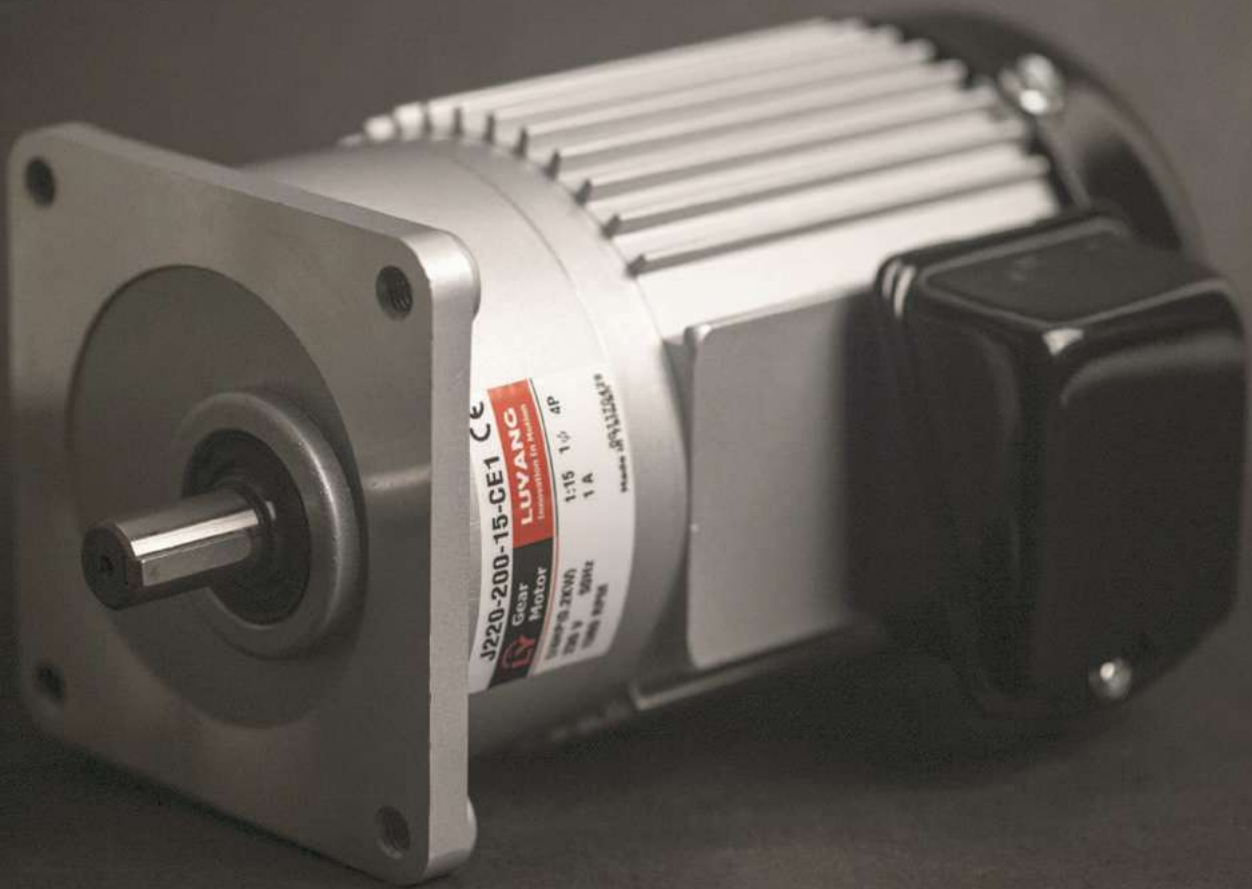
LV 18 - 100 - 60 - AC M

Model	Frame	Output	Ratio	Voltage	Accessory
J220 Carton Sealer Motor Shell	18 : Frame 18	100 : 100W(1/8HP)	3-1800	AC: 1 Phase110/220V 50/60Hz AV: 1 Phase110/220V 60Hz AVE: 1 Phase110/220V 50Hz S3: 3 Phase 220/380V	M : Electromagnetic Brake
LH Horizontal Motor Shell	22 : Frame 22	200 : 200W(1/4HP)			
	22B : Frame 22B	400 : 400W(1/2HP)			
	28 : Frame 28	750 : 750W(1HP)			
LV Vertical Motor Shell	32 : Frame 32	1500 : 1500W(2HP)			
	40 : Frame 40	2200 : 2200W(3HP)			
	50 : Frame 50	3700 : 3700W(5HP)			
* AC : For 1Phase 200W. AV, AVE : For 1 phase 400~1500W					

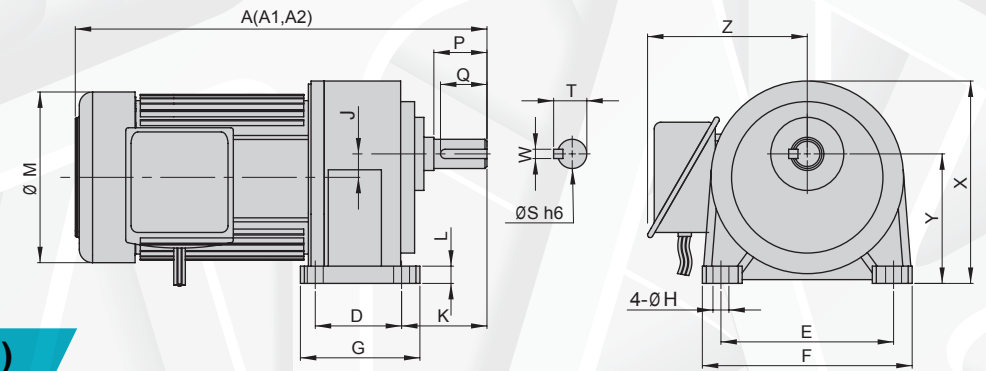
Direction of Terminal Box

Type	G1- Left Side (Standard Type)	G2- Right Side	G3- Upper Side	G4- Lower Side
LH				
LV				
Wire Inlet Direction				

※ Please contact us while the motor will run under the low temperature environment.



LH Horizontal Gearmotor



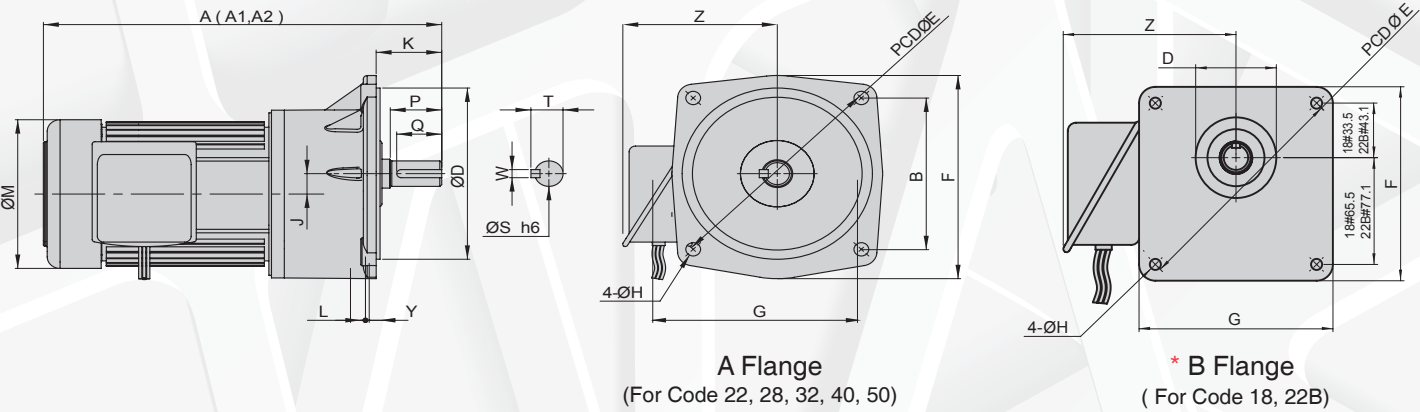
Dimension (mm)																							
Output W (HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	X	Y	Z	Output Shaft				
																			S	P	W	T	Q
100W (1/8 HP)	3~50 (60~200)	1	18	246	276	246	40	110	135	65	9	16	48.6	10	135	131	88.5	120	18	30	5	20	25
	60~200	2	22	276	307	276	65	130	158	90	11	17.65	60	13	135	153	97.5	120	22	40	7	25	35
200W (1/4 HP)	3~10 (12.5~90)	1	18	266	276	276	40	110	135	65	9	16	48.6	10	135	131	88.5	120	18	30	5	20	25
	12.5~90 (100~200)	2	22	296	307	306	65	130	158	90	11	17.65	60	13	135	153	97.5	120	22	40	7	25	35
	100~200	3	28	312	322	322	90	140	180	120	11	24.22	66.5	16	135	174	116	120	28	45	7	31	40
400W (1/2 HP) Standard for 3-phase	3~10 (12.5~90)	2	22	306	317	-	65	130	158	90	11	17.65	63	13	135	153	97.5	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	322	332	-	90	140	180	120	11	24.22	66.5	16	135	174	116	135	28	45	7	31	40
	100~200	4	32	367	378	-	130	170	210	165	12	30.22	70	20	135	198	130	135	32	55	10	35	50
400W+ (1/2 HP) Standard for 1-phase	3~10 (12.5~90)	2	22	329	335	358	65	130	158	90	11	17.65	63	13	162	153	97.5	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	353	359	382	90	140	180	120	11	24.22	66.5	16	162	174	116	135	28	45	7	31	40
	100~200	4	32	389	395	418	130	170	210	165	12	30.22	70	20	162	198	130	135	32	55	10	35	50
750W (1 HP)	(3~25)	2	22	336	342	385	65	130	158	90	11	17.65	60	13	162	153	97.5	135	22	40	7	25	35
	3~25 (30~120)	3	28	360	366	410	90	140	180	120	11	24.22	66.5	16	162	174	116	135	28	45	7	31	40
	30~120 (125~200)	4	32	396	402	445	130	170	210	165	12	30.22	70	20	162	198	130	135	32	55	10	35	50
	125~200	5	40	451	457	500	150	210	265	198	15	28	89	22	162	250	160	135	40	65	10	43	60
1500W (2 HP)	(3~40)	3	28	413	413	457	90	140	180	120	11	24.22	66.5	16	192	174	116	135	28	45	7	31	40
	3~30 (40~100)	4	32	453	453	497	130	170	210	165	13	30.22	70	20	192	198	130	146	32	55	10	35	50
	25~100 (110~170)	5	40	510	510	552	150	210	265	198	15	28	89	22	192	250	160	146	40	65	10	43	60
	110~180	6	50	560	560	560	170	265	319	238	18	51	120	31.5	192	308	200	146	50	80	14	54	75
2200W (3 HP)	3~40 (45~80)	5	40	530	530	-	150	210	265	198	15	28	89	22	220	250	160	160	40	65	10	43	60
	45~100	6	50	580	580	-	170	265	319	238	18	51	120	31.5	220	308	200	160	50	80	14	54	75
3700W (5 HP)	3~10 (15~60)	5	40	560	560	-	150	210	265	198	15	28	89	22	220	250	160	160	40	65	10	43	60
	15~60	6	50	620	620	-	170	265	319	238	18	51	120	31.5	220	308	200	160	50	80	14	54	75

※ Ratio showed in parenthesis () are used for light loading.
NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.
(2) Refer to dimension of single-phase brake motor, please contact us.
(3) Light loading type have one year guarantee for motor only.

LH HORIZONTAL GEARMOTOR



LV Vertical Gearmotor



A Flange
(For Code 22, 28, 32, 40, 50)

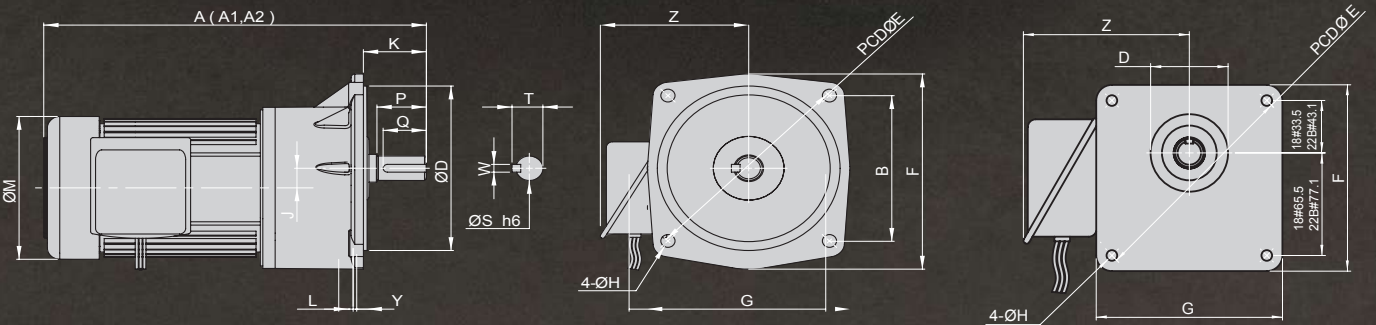
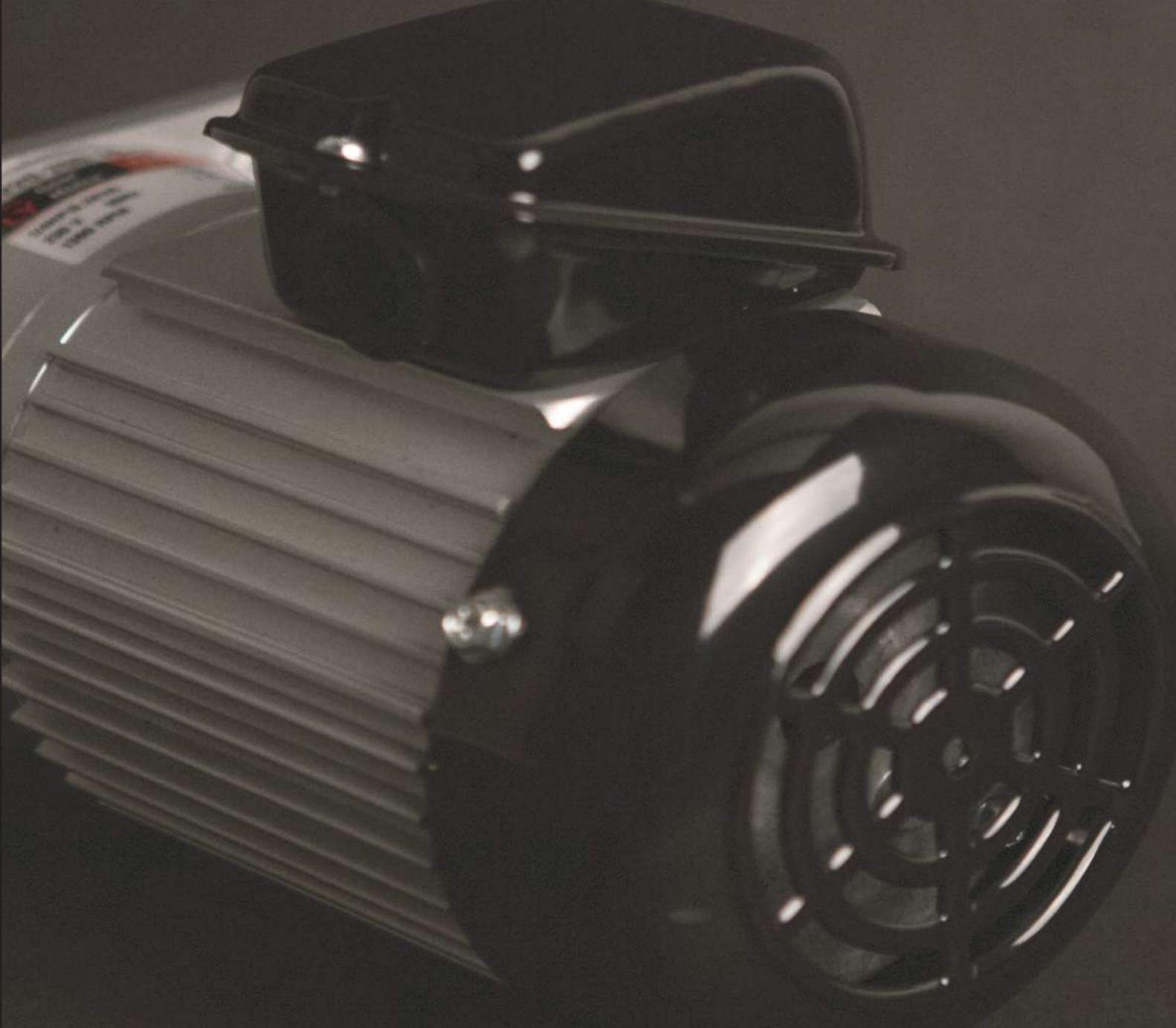
* B Flange
(For Code 18, 22B)

Dimension (mm)

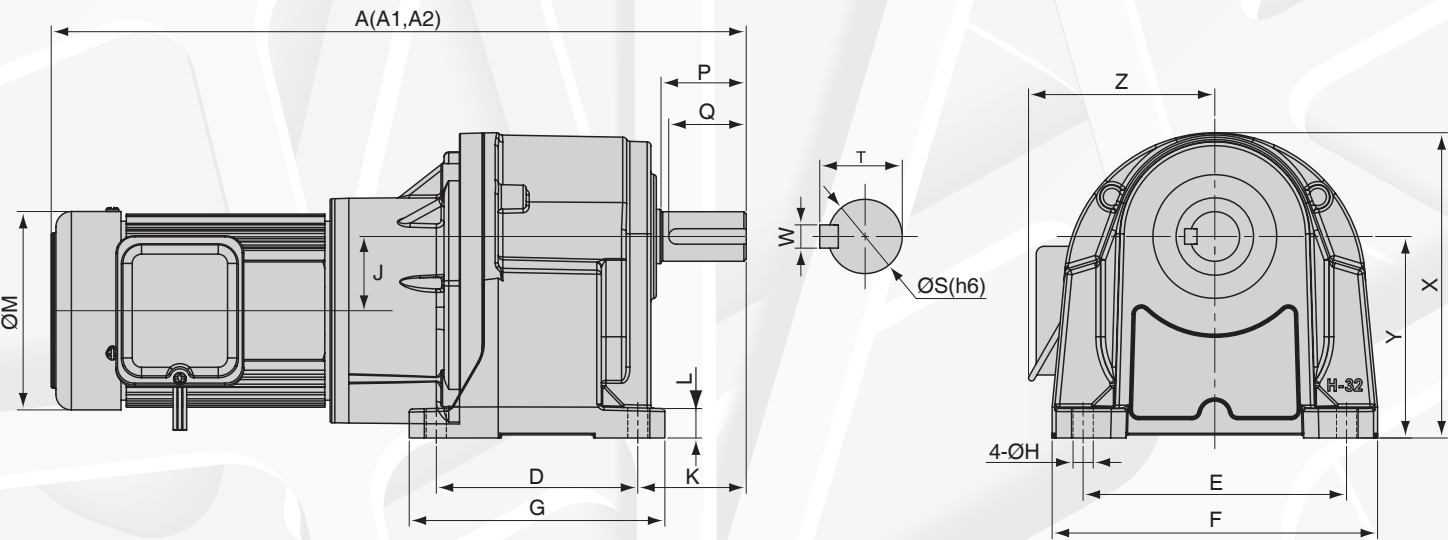
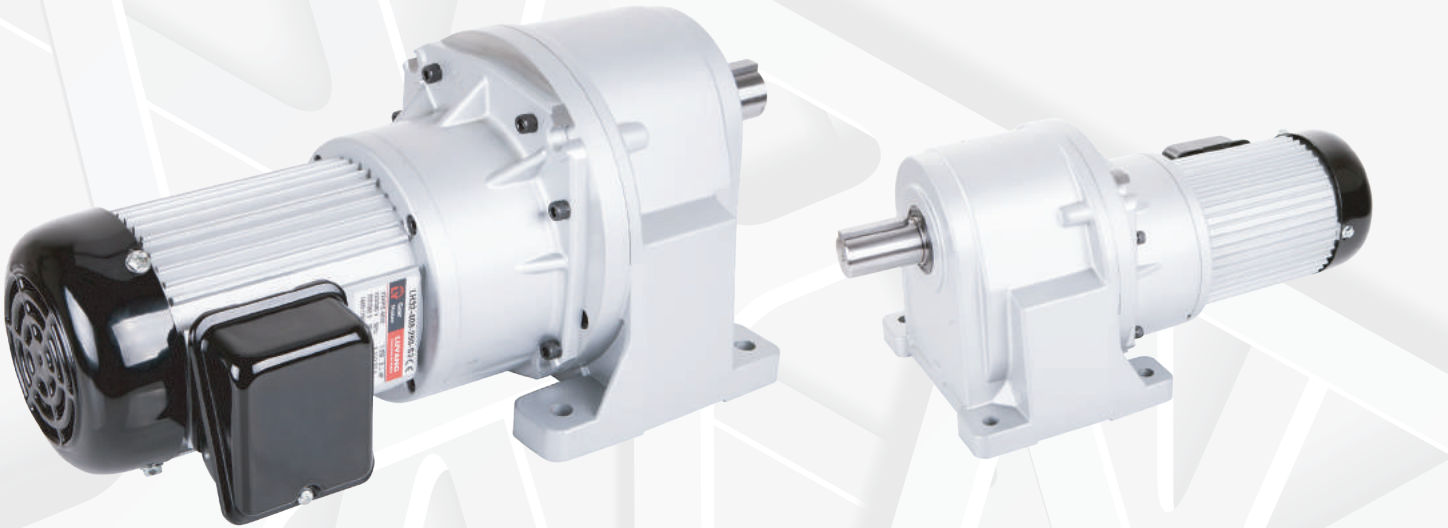
Output W (HP)	Ratio	Housing Code	Code	A	A1	A2	B	D	E	F	G	H	J	K	L	M	Y	Z	S	P	W	T	Q
100W (1/8 HP)	3~50 (60~200)	1	18*	246	276	246	-	50	140	119	119	9	16	40	12	135	-	120	18	30	5	20	25
		2	22	276	307	276	130.8	148	185	176	164	11	17.65	47	12	135	3	120	22	40	7	25	35
	60~200	2	22B*	276	307	276	-	62	170	147	147	11	17.65	47	12	135	-	120	22	40	7	25	35
200W (1/4 HP)	3~10 (12.5~90)	1	18*	266	276	276	-	50	140	119	119	9	16	40	12	135	-	120	18	30	5	20	25
		2	22	296	307	306	130.8	148	185	176	164	11	17.65	47	12	135	3	120	22	40	7	25	35
	12.5~90 (100~200)	2	22B*	296	307	306	-	62	170	147	147	11	17.65	47	12	135	-	120	22	40	7	25	35
400W (1/2 HP)	3~10 (12.5~90)	2	22	312	323	322	155.6	170	220	216	216	11	24.22	60	15	135	6	120	28	45	7	31	40
		2	22	306	317	-	130.8	148	185	176	164	11	17.65	47	12	135	3	135	22	40	7	25	35
	12.5~90 (100~200)	2	22B*	306	317	-	-	62	170	147	147	11	17.65	47	12	135	-	135	22	40	7	25	35
Standard for 3-phase	12.5~90 (100~200)	3	28	322	332	-	155.6	170	220	216	216	11	24.22	60	15	135	6	135	28	45	7	31	40
		4	32	367	378	-	180.3	185	255	241	225	13	30.22	65	15	135	4	135	32	55	10	35	50
	100~200	4	32	367	378	-	180.3	185	255	241	225	13	30.22	65	15	135	4	135	32	55	10	35	50
400W+ (1/2 HP)	3~10 (12.5~90)	2	22	329	335	358	130.8	148	185	176	164	11	17.65	47	12	162	3	135	22	40	7	25	35
		2	22B*	339	335	358	-	62	170	147	147	11	17.65	47	12	162	-	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	355	361	384	155.6	170	220	216	216	11	24.22	60	15	162	6	135	28	45	7	31	40
Standard for 1-phase	100~200	4	32	389	395	418	180.3	185	255	241	225	13	30.22	65	15	162	4	135	32	55	10	35	50
		2	22	336	342	385	130.8	148	185	176	164	11	17.65	47	12	162	3	135	22	40	7	25	35
	(3~25)	2	22B*	336	342	385	-	62	170	147	147	11	17.65	47	12	162	-	135	22	40	7	25	35
750W (1 HP)	3~25 (30~120)	3	28	362	368	411	155.6	170	220	216	216	11	24.22	60	15	162	6	135	28	45	7	31	40
		4	32	396	402	445	180.3	185	255	241	225	13	30.22	65	15	162	4	135	32	55	10	35	50
	30~120 (125~200)	4	32	396	402	445	180.3	185	255	241	225	13	30.22	65	15	162	4	135	32	55	10	35	50
1500W (2 HP)	125~200	5	40	451	457	500	219.3	230	310	291	272	15	28	85	21	162	5	135	40	65	10	43	60
		3	28	413	413	457	155.6	170	220	216	216	11	24.22	60	15	192	6	135	28	45	7	31	40
	(3~40)	3	28	413	413	457	155.6	170	220	216	216	11	24.22	60	15	192	6	135	28	45	7	31	40
2200W (3 HP)	3~30 (40~100)	4	32	453	453	497	180.3	185	255	241	225	13	30.22	65	15	192	4	146	32	55	10	35	50
		5	40	508	508	552	219.3	230	310	291	272	15	28	85	21	192	5	146	40	65	10	43	60
	25~100 (110~170)	5	40	508	508	552	219.3	230	310	291	272	15	28	85	21	192	5	146	40	65	10	43	60
3700W (5 HP)	110~180	6	50	560	560	560	275.8	280	390	369	341	18	51	92	25	192	5	146	50	80	14	54	75
		5	40	530	530	-	219.3	230	310	291	272	15	28	85	21	220	5	160	40	65	10	43	60
	45~100	6	50	580	580	-	275.8	280	390	369	341	18	51	92	25	220	5	160	50	80	14	54	75
3700W (5 HP)	3~10 (15~60)	5	40	560	560	-	219.3	230	310	291	272	15	28	85	21	220	5	160	40	65	10	43	60
	15~60	6	50	620	620	-	275.8	280	390	369	341	18	51	92	25	220	5	160	50	80	14	54	75

* Means B type flange.
※ Ratio showed in parenthesis () are used for light loading.
NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.
(2) Refer to dimension of single-phase brake motor, please contact us.
(3) Light loading type have one year guarantee for motor only.
※ The above values are subject to change without notice.

LV VERTICAL GEARMOTOR



LH Horizontal High Ratio Gearmotor

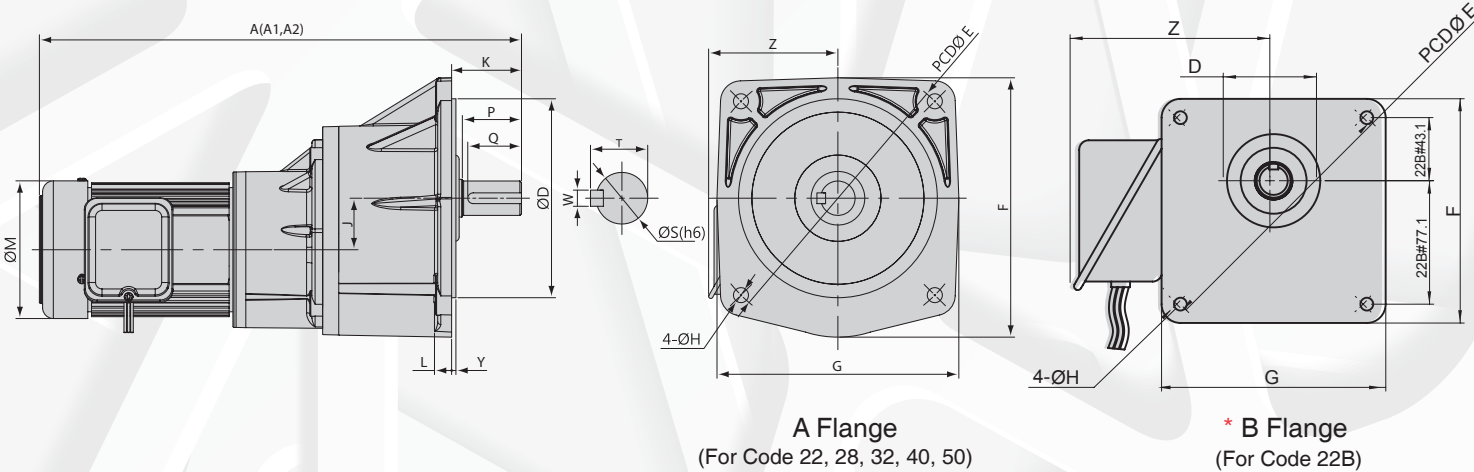
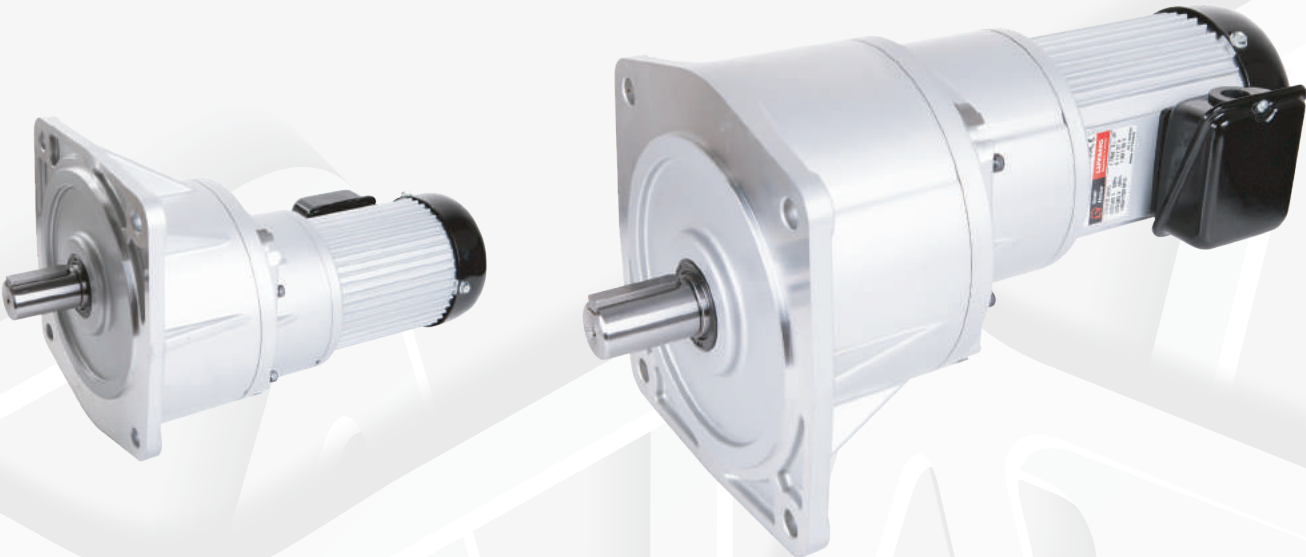


Dimension (mm)

Output W (HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	X	Y	Z	Output Shaft				
																			S	P	W	T	Q
100W (1/8HP)	(250~1800)	1#+2#	22	346	377	346	65	130	158	90	11	33.65	63	13	135	153	97.5	135	22	40	7	25	35
	250~1800	1#+3#	28	349	379	349	90	140	180	120	11	40.22	66.5	16	135	174	116	135	28	45	7	31	40
200W (1/4HP)	(250~1800)	1#+3#	28	369	379	379	90	140	180	120	11	40.22	66.5	16	135	174	116	135	28	45	7	31	40
	250~1800	2#+4#	32	433	444	443	130	170	210	165	13	47.87	70	20	135	198	130	135	32	55	10	35	50
400W (1/2HP)	(250~1800)	2#+4#	32	443	454	-	130	170	210	165	13	47.87	70	20	135	198	130	135	32	55	10	35	50
	Standard for 3-phase	3#+5#	40	500	511	-	150	210	265	198	15	52.3	89	22	135	250	160	146	40	65	10	43	60
400W+ (1/2HP)	(250~1800)	2#+4#	32	466	472	495	130	170	210	165	13	47.87	70	20	162	198	130	135	32	55	10	35	50
	Standard for 1-phase	3#+5#	40	521	527	550	150	210	265	198	15	52.3	89	22	162	250	160	146	40	65	10	43	60

※ Ratio showed in parenthesis () are used for light loading.
NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.
(2) Refer to dimension of single-phase brake motor, please contact us.
(3) Light loading type have one yearguarantee for motor only.

LV Vertical High Ratio Gearmotor



Dimension (mm)

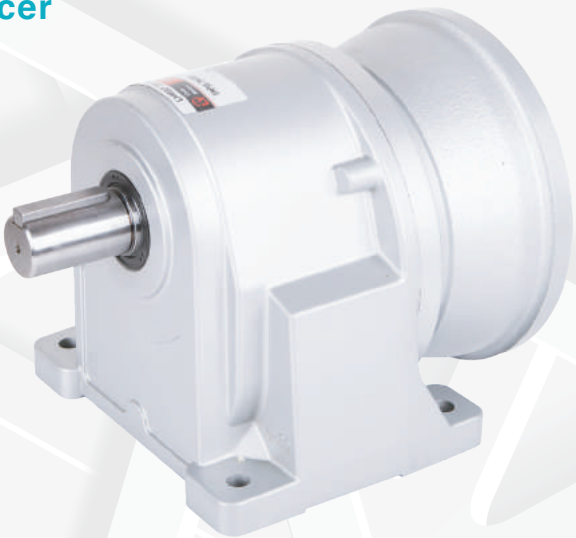
Output W (HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	Y	Z	Output Shaft				
																		S	P	W	T	Q
100W	(250~1800)	1#+2#	22	346	377	346	148	185	176	164	11	33.65	47	12	135	3	135	22	40	7	25	35
		1#+2#	22B*	346	377	346	62	170	147	147	11	33.65	47	12	135	-	135	22	40	7	25	35
	250~1800	1#+3#	28	348	379	348	170	220	216	216	11	40.22	60	15	135	6	135	28	45	7	31	40
200W	(250~1800)	1#+3#	28	368	379	379	170	220	216	216	11	40.22	60	15	135	6	135	28	45	7	31	40
	250~1800	2#+4#	32	433	444	443	185	255	241	225	13	47.87	65	15	135	4	135	32	55	10	35	50
400W Standard for 3-phase	(250~1800)	2#+4#	32	443	454	-	185	255	241	225	13	47.87	65	15	135	4	135	32	55	10	35	50
	250~1800	3#+5#	40	500	511	-	230	310	291	272	15	52.3	85	21	135	5	135	40	65	10	43	60
400W Standard for 1-phase	(250~1800)	2#+4#	32	466	472	495	185	255	241	225	13	47.87	65	15	162	4	135	32	55	10	35	50
	250~1800	3#+5#	40	521	527	550	230	310	291	272	15	52.3	85	21	162	5	135	40	65	10	43	60

* Means B type flange.
※ Ratio showed in parenthesis () are used for light loading.
NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.
(2) Refer to dimension of single-phase brake motor, please contact us.
(3) Light loading type have one yearguarantee for motor only.

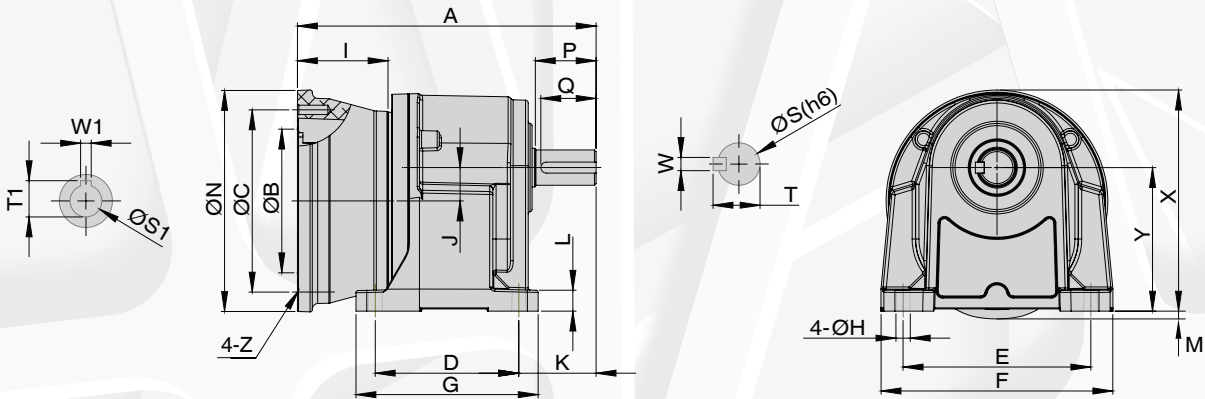
LHM Flange Type Horizontal Gear Reducer

Indication of Flange Type Reducer

LHM 18 - 100 - 20



Model	Code	Output	Ratio
LHM : Horizontal Flange Type Gear Reducer	18: Frame18	100:100W	3~200
	22: Frame22	200:200W	
	28: Frame28	400:400W	
	32: Frame32	750:750W	
LVM : Vertical Flange Type Gear Reducer	40: Frame40	1500:1500W	
		2200:2200W	
		3700:3700W	

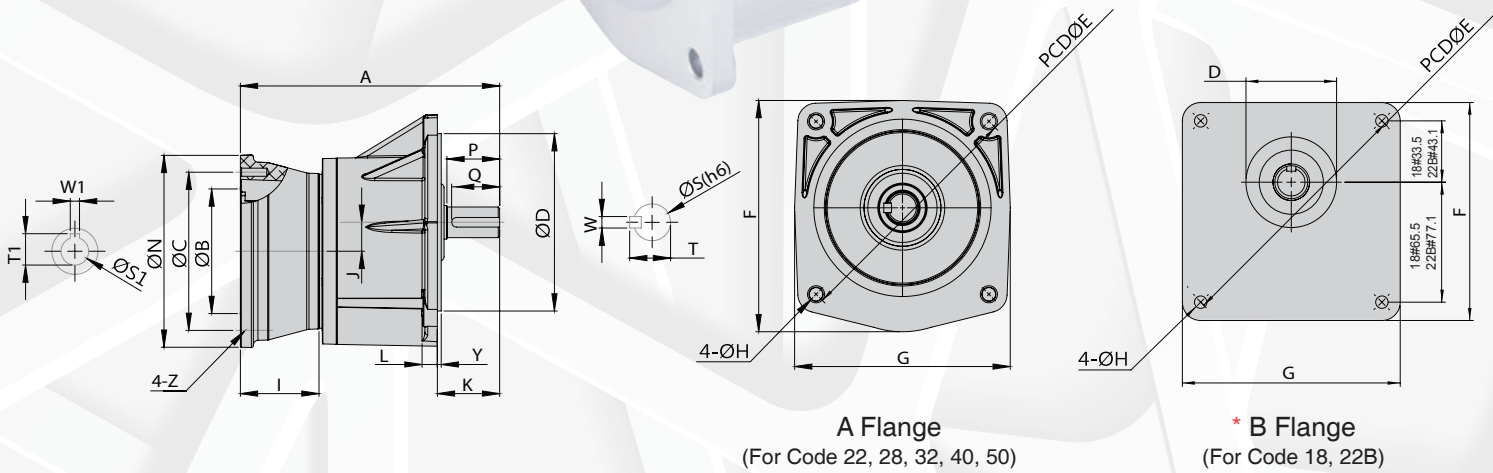
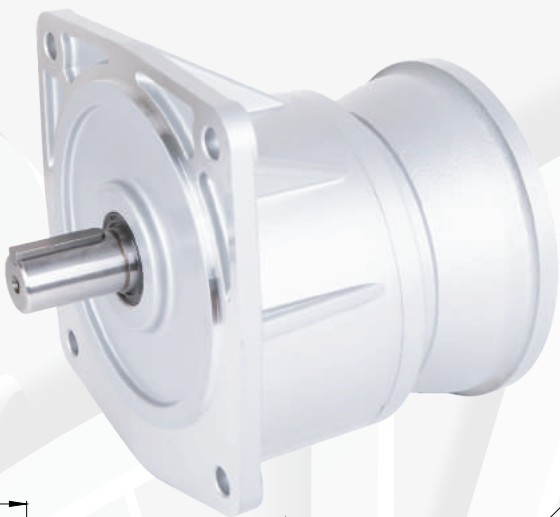


Dimension (mm)

Output W (HP)	Ratio	Code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	X	Y	Z	Output					Input			
																				Shaft		Keyway			Bore		Keyway	
																				S	P	W	T	Q	S1	W1	T1	
100W 1/8HP	3-50 (60~200)	18	156	110	130	40	110	135	65	9	55	16	48.6	10	8	160	131	88.5	M8	Ø18	30	5	20	25	Ø11	4	12.8	
	60-200	22	186	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø11	4	12.8	
200W 1/4HP	3-10 (12.5~90)	18	156	110	130	40	110	135	65	9	55	16	48.6	10	8	160	131	88.5	M8	Ø18	30	5	20	25	Ø11	4	12.8	
	12.5-90 (100~200)	22	186	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø11	4	12.8	
	100-200	28	200	110	130	90	140	180	120	11	55	24.22	66.5	16	-	160	178	116	M8	Ø28	45	7	31	40	Ø11	4	12.8	
400W 1/2HP	3-10 (12.5~90)	22	186	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø14	5	16.3	
	12.5-90 (100~200)	28	200	110	130	90	140	180	120	11	55	24.22	66.5	16	-	160	178	116	M8	Ø28	45	7	31	40	Ø14	5	16.3	
	100-200	32	247	110	130	130	170	210	165	13	55	30.22	70	20	-	160	216	130	M8	Ø32	55	10	35	50	Ø14	5	16.3	
750W 1HP	3-25 (30~120)	28	235	130	165	90	140	180	120	11	82	24.22	66.5	16	9	200	178	116	M10	Ø28	45	7	31	40	Ø19	6	21.8	
	30-120 (125~200)	32	271	130	165	130	170	210	165	13	82	30.22	70	20	1	200	216	130	M10	Ø32	55	10	35	50	Ø19	6	21.8	
	125-200	40	326	130	165	150	210	265	205	15	82	28	89	22	-	200	250	160	M10	Ø40	65	10	43	60	Ø19	6	21.8	
1500W 2HP	3-30	32	271	130	165	130	170	210	165	13	82	30.22	70	20	1	200	216	130	M10	Ø32	55	10	35	50	Ø24	8	27.3	
	25-100	40	326	130	165	150	210	265	205	15	82	28	89	22	-	200	250	160	M10	Ø40	65	10	43	60	Ø24	8	27.3	
2200W 3HP	3-40	40	336	180	215	150	210	265	198	15	98	28	89	22	-	250	250	160	M14	Ø40	65	10	43	60	Ø28	8	31.3	
3700W 5HP	3-10	40	336	180	215	150	210	265	198	15	98	28	89	22	-	250	250	160	M14	Ø40	65	10	43	60	Ø28	8	31.3	

※ Ratio showed in parenthesis () are used for light loading.
NOTES: Suitable for motors of IEC standard.
NOTICE: Light loading type has one year guarantee for motor only.

LVM Flange Type Vertical Gear Reducer



Dimension (mm)

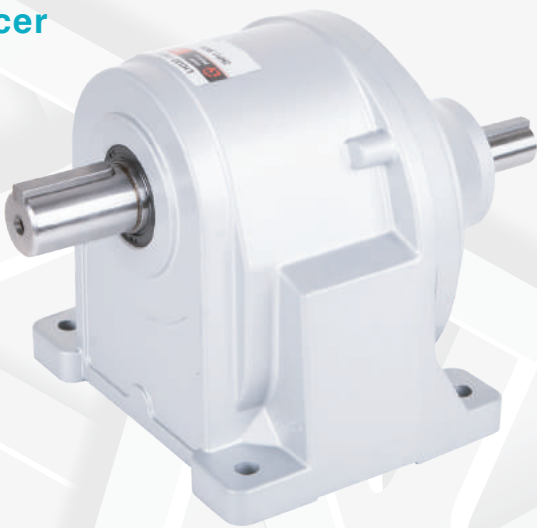
Output W (HP)	Ratio	Code	A	B	C	D	E	F	G	H	I	J	K	L	N	Y	Z	Output						Input		
																		Shaft		Keyway		Bore		Keyway		
																		S	P	W	T	Q	S1	W1	T1	
100W 1/8HP	3-50 (60~200)	18*	156	110	130	50	140	119	119	9	55	16	40	12	160	-	M8	Ø18	30	5	20	25	Ø11	4	12.8	
	60-200	22	186	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø11	4	12.8	
		22B*	186	110	130	62	170	147	147	11	55	17.65	47	12	160	-	M8	Ø22	40	7	25	35	Ø11	4	12.8	
200W 1/4HP	3-10 (12.5~90)	18*	156	110	130	50	140	119	119	9	55	16	40	12	160	-	M8	Ø18	30	5	20	25	Ø11	4	12.8	
	12.5-90 (100~200)	22	186	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø11	4	12.8	
		22B*	186	110	130	62	170	147	147	11	55	17.65	47	12	160	-	M8	Ø22	40	7	25	35	Ø11	4	12.8	
		100-200	28	200	110	130	170	220	216	216	11	55	24.22	60	15	160	6	M8	Ø28	45	7	31	40	Ø11	4	12.8
400W 1/2HP	3-10 (12.5~90)	22	186	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø14	5	16.3	
		22B*	186	110	130	62	170	147	147	11	55	17.65	47	12	160	-	M8	Ø22	40	7	25	35	Ø11	4	12.8	
	12.5-90 (100~200)	28	200	110	130	170	220	216	216	11	55	24.22	60	15	160	6	M8	Ø28	45	7	31	40	Ø14	5	16.3	
	100-200	32	247	110	130	185	255	241	225	13	55	30.22	70	15	160	4	M8	Ø32	55	10	35	50	Ø14	5	16.3	
750W 1HP	3-25 (30~120)	28	235	130	165	170	220	216	216	11	82	24.22	60	15	200	6	M10	Ø28	45	7	31	40	Ø19	6	21.8	
	30-120 (125~200)	32	271	130	165	185	255	241	225	13	82	30.22	70	15	200	4	M10	Ø32	55	10	35	50	Ø19	6	21.8	
	125-200	40	326	130	165	230	310	290	268	15	82	28	85	21	200	5	M10	Ø40	65	10	43	60	Ø19	6	21.8	
1500W 2HP	3-30	32	271	130	165	185	255	241	225	13	82	30.22	70	15	200	4	M10	Ø32	55	10	35	50	Ø24	8	27.3	
	25-100	40	326	130	165	230	310	290	268	15	82	28	85	21	200	5	M10	Ø40	65	10	43	60	Ø24	8	27.3	
2200W 3HP	3-40	40	336	180	215	230	310	290	268	15	95	28	85	21	250	5	M14	Ø40	65	10	43	60	Ø28	8	31.3	
3700W 5HP	3-10	40	336	180	215	230	310	290	268	15	95	28	85	21	250	5	M14	Ø40	65	10	43	60	Ø28	8	31.3	

* Means B type flange.
※ Ratio showed in parenthesis () are used for light loading.
NOTES/ Suitable for motors of IEC standard.
※ The above values are subject to change without notice.
NOTICE: Light loading type has one year guarantee for motor only.

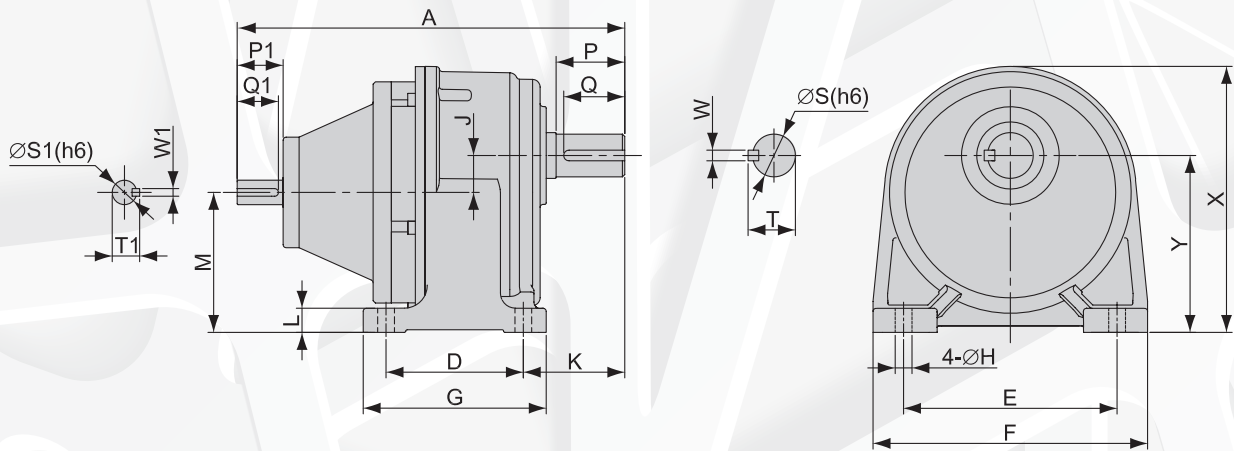
LHD Double Shaft Type Horizontal Reducer

Indication of Double Shaft Reducer

LHD 18 - 100 - 20



Model	Code	Output	Ratio
LHD : Double Shaft Horizontal Reducer	18: Frame18 22: Frame22 28: Frame28 32: Frame32	100:100W 200:200W 400:400W 750:750W 1500:1500W	3~200
LVD : Double Shaft Vertical Reducer			

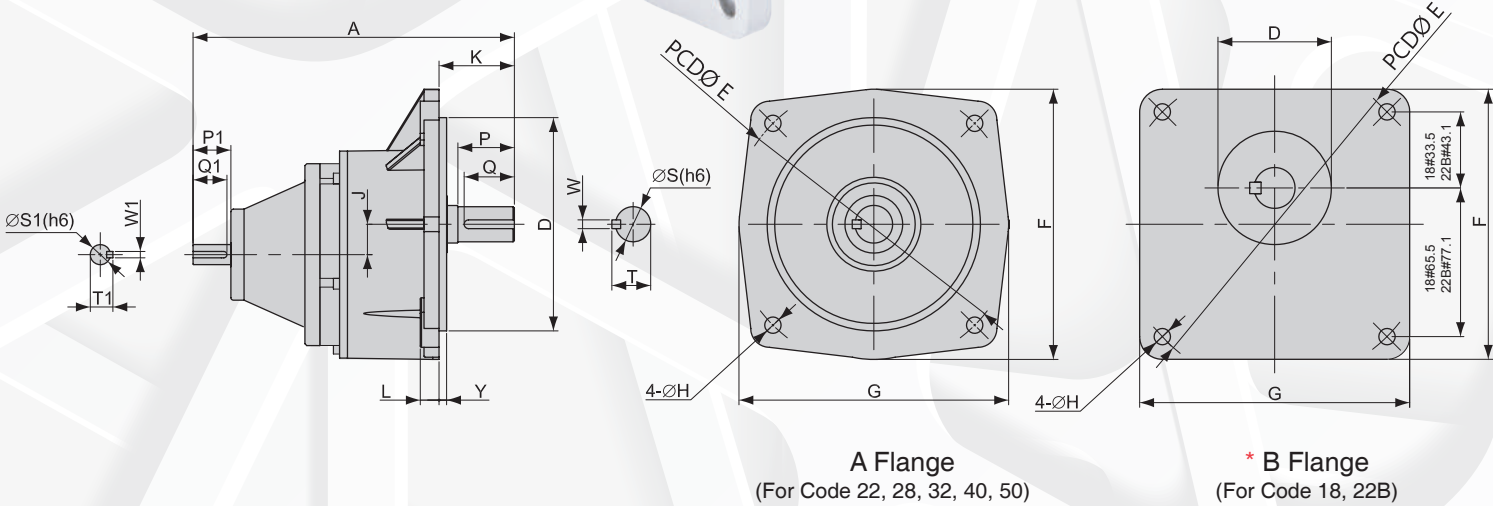
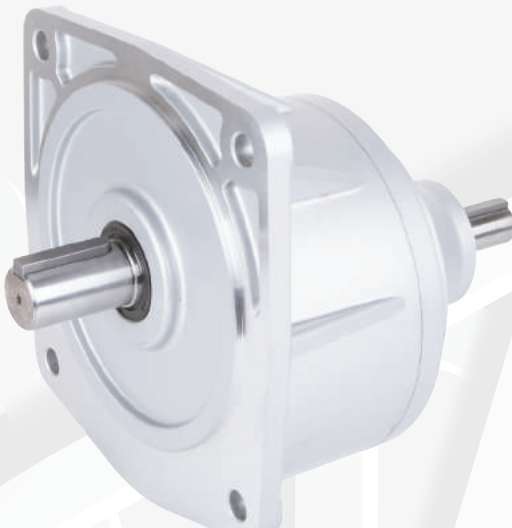


Dimension (mm)

Output W (HP)	Ratio	Code	A	D	E	F	G	H	J	K	L	M	X	Y	Output Shaft					Input Bore				
															S	P	W	T	Q	S1	P1	W1	T1	Q1
100W 1/8HP	3-50 (60~200)	18	165	40	110	135	65	9	16	48.6	10	72.5	131	88.5	18	30	5	20	25	14	25	5	16	22
	60-200	22	196	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	14	25	5	16	22
200W 1/4HP	3-10 (12.5~90)	18	165	40	110	135	65	9	16	48.6	10	72.5	131	88.5	18	30	5	20	25	14	25	5	16	22
	12.5-90 (100~200)	22	196	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	14	25	5	16	22
	100-200	28	210	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	14	25	5	16	22
400W 1/2HP	3-10 (12.5~90)	22	230	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	16	30	5	18	27
	12.5-90 (100~200)	28	255	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	16	30	5	18	27
	100-200	32	290	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	16	30	5	18	27
750W 1HP	3-25 (30~120)	28	265	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	19	40	6	21.5	35
	30-120 (125~200)	32	300	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	19	40	6	21.5	35
1500W 2HP	3-30	32	310	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	24	50	8	27	45

※ Ratio showed in parenthesis () are used for light loading.
NOTICE: Light loading type has one year guarantee for motor only.

LVD Double Shaft Type Vertical Reducer



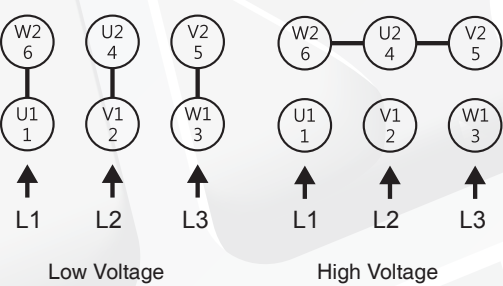
Dimension (mm)

Output W (HP)	Ratio	Code	A	D	E	F	G	H	J	K	L	Y	Output Shaft					Input Bore				
													S	P	W	T	Q	S1	P1	W1	T1	Q1
100W 1/8HP	3-50 (60~200)	18*	166	50	140	119	119	9	16	40	12	-	18	30	5	20	25	14	25	5	16	22
	60-200	22	196	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	14	25	5	16	22
200W 1/4HP	3-10 (12.5~90)	18*	166	50	140	119	119	9	16	40	12	-	18	30	5	20	25	14	25	5	16	22
	12.5-90 (100~200)	22	196	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	14	25	5	16	22
	100-200	28	210	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	14	25	5	16	22
400W 1/2HP	3-10 (12.5~90)	22	230	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	16	30	5	18	27
	12.5-90 (100~200)	28	255	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	16	30	5	18	27
	100-200	32	290	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	16	30	5	18	27
750W 1HP	3-25 (30~120)	28	265	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	19	40	6	21.5	35
	30-120 (125~200)	32	300	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	19	40	6	21.5	35
1500W 2HP	3-30	32	310	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	24	50	8	27	45

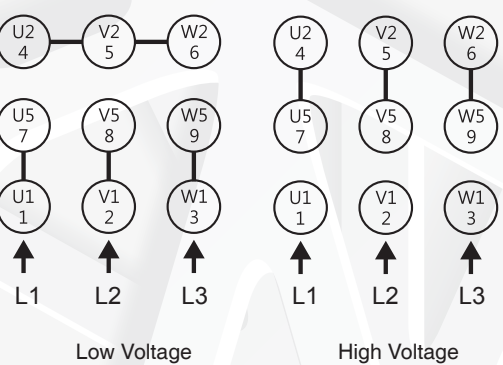
* Means B type flange.
※ Ratio showed in parenthesis () are used for light loading.
NOTICE: Light loading type has one year guarantee for motor only.
※ The above values are subject to change without notice.

Motor/Brake Wire Drawing of Gearmotor

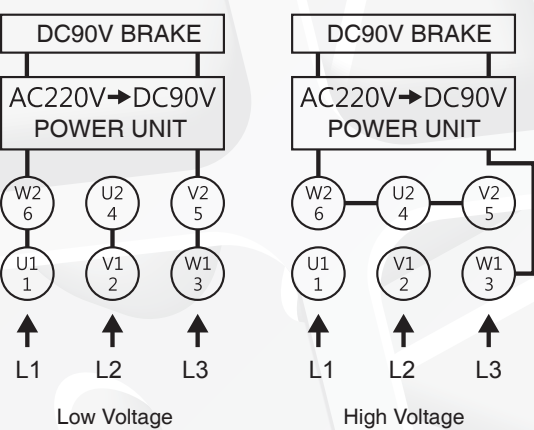
3 Phase with 6 wires



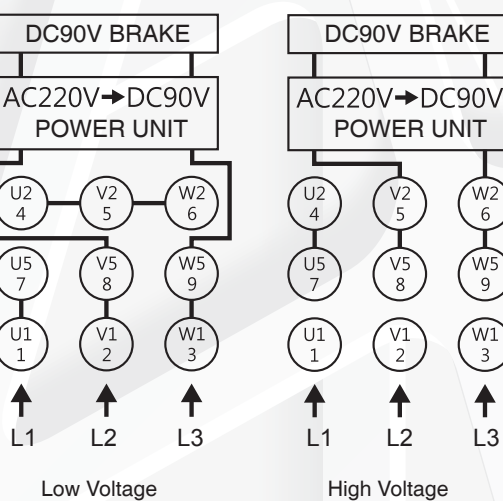
3 Phase with 9 wires



3 Phase with 6 wires with brake

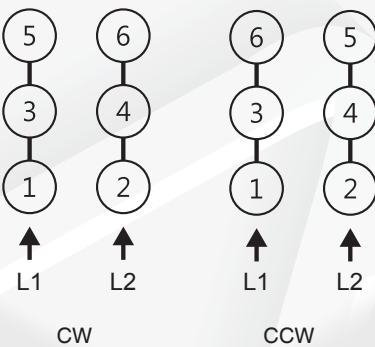


3 Phase with 9 wires with brake

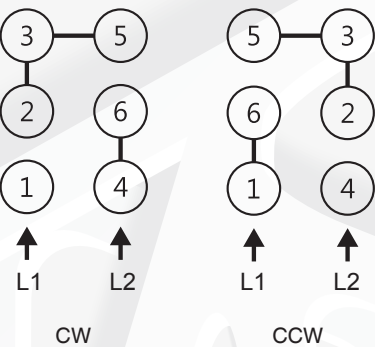


Motor/Brake Wire Drawing of Gearmotor

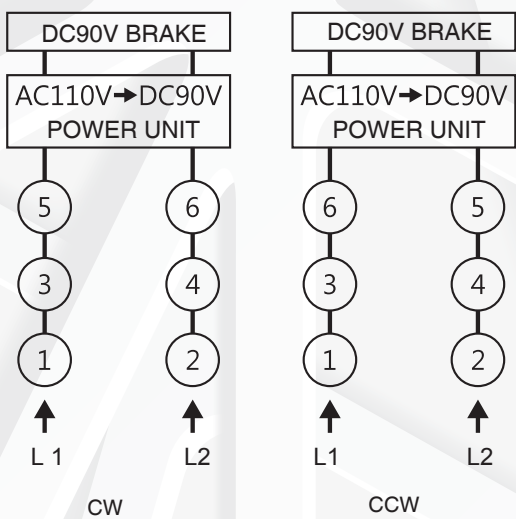
1 Phase 110V with 6 wires



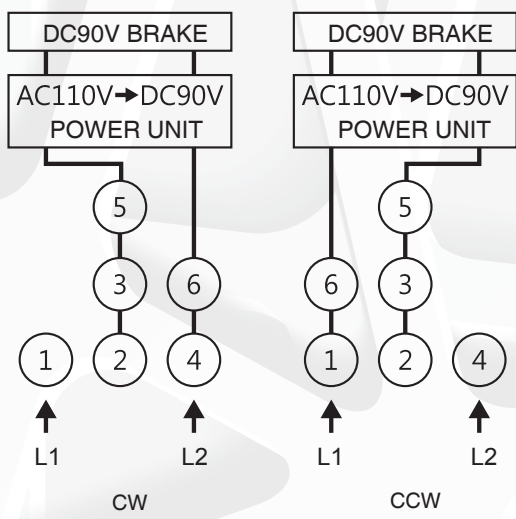
1 Phase 220V with 6 wires



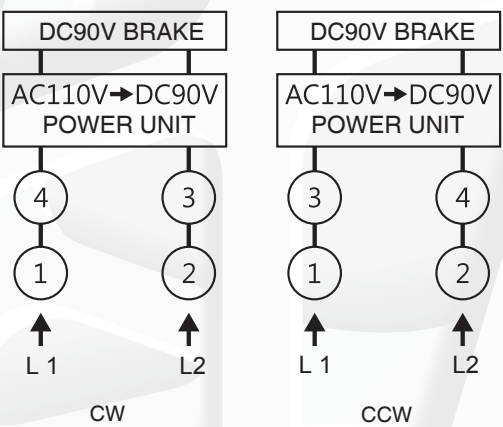
1 Phase 110V with 6 wires with brake



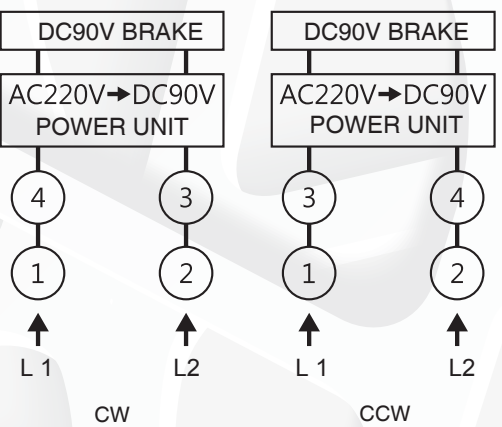
1 Phase 220V with 6 wires with brake



J Series-1 phase 110V with brake



J Series-1 Phase 220V with brake



Specification

Specification of Motor and Brake																
Phase	Output (W/HP)	Pole (P)	Voltage (V)	Frequ-ency Hz	Rating			Class	Kgfm	Release Time		Adjust Gap		With Brake		
					RPM	Current (A)	Torque (Kg-m)			AC Switch	DC Switch	Specified Value	Boundary Value	Brake Voltage	Input Voltage	Operation Times
Three Phase 3Ø	100W(1/8 HP)	4P	220/380	50/60	1400/1700	0.71/0.62 0.41/ 0.36	0.069/ 0.058 0.069/ 0.058	E	0.1	0.1	0.06	0.3	0.7	DC90V	AC200- 240V	10times /min
	200W(1/4 HP)		220/380	50/60	1400/1700	1.16/0.99 0.67/ 0.57	0.115/ 0.137 0.115/ 0.137	E	0.2	0.07	0.03	0.3	0.7			
	400W(1/2 HP) Strnadard Type		220/380	50/60	1350/1670	2.03/1.82 1.17/ 1.05	0.28/ 0.24 0.28/ 0.24	E	0.4	0.10	0.03	0.3	0.7			
	400W(1/2 HP) Advanced Type		220/380	50/60	1400/1700	1.8/ 1.68 1.04/ 0.97	0.27/ 0.23 0.27/ 0.23	E	0.4	0.10	0.03	0.3	0.7			
	750W(1 HP)		220/380	50/60	1400/1700	3.43/3.12 1.98/ 1.8	0.52/ 0.43 0.52/ 0.43	E	0.8	0.12	0.05	0.3	1.0			
	1500W(2 HP)		220/380	50/60	1400/1700	6.27/5.78 3.62/3.34	1.03/ 0.86 1.03/ 0.86	E	1.6	0.14	0.05	0.3	1.0			
	2200W(3 HP)		220/380	50/60	1400/1700	9.5/8.76 5.48/5.06	1.53/ 1.26 1.53/ 1.26	E	2.5	0.15	0.03	0.3	1.0			
	3700W(5 HP)		220/380	50/60	1400/1700	15/13.8 8.66/ 8	2.57/ 2.12 2.57/ 2.12	E	5.0	0.17	0.05	0.3	1.2			
	Single Phase 1Ø		100W(1/8 HP)	4P	110/220	50/60	1350/1670	- / 1.84 1.14/ 1.01	- / 0.058 0.072/ 0.058	E	0.1	0.1	0.06			
200W(1/4 HP)		110/220	50/60		1350/1670	- / 3.11 2/ 1.68	- / 0.117 0.144/ 0.117	E	0.2	0.07	0.03	0.3	0.7			
400W(1/2 HP)		110/220	50/60		1380/1680	- / 6.65 3.33/ 3.38	- / 0.232 0.282/ 0.232	E	0.4	0.10	0.03	0.3	0.7			
750W(1 HP)		110/220	50/60		1380/1680	- / 5.48 10.1/ 5.18	- / 0.435 0.529/ 0.435	E	0.8	0.12	0.15	0.3	1.0			

Output Specification of Reducer															
Ratio	Output RPM			100W (1/8 HP)				200W (1/4 HP)				400W (1/2 HP)			
				Output shaft permissible torque				Output shaft permissible torque				Output shaft permissible torque			
50Hz	60Hz	Ø		50Hz	60Hz	O.H.L		50Hz	60Hz	O.H.L		50Hz	60Hz	O.H.L	
				Kg.m	Kg.m	Kgf		Kg.m	Kg.m	Kgf		Kg.m	Kg.m	Kgf	
3	500	600	18	0.2	0.17	30	22	0.38	0.31	30	28	0.71	0.6	54	32
5	300	360		0.32	0.27	60		0.61	0.5	60		1.15	1	90	
10	150	180		0.62	0.51	90		1.2	1	90		2.5	2.1	120	
12.5	120	144		0.77	0.66	100		1.54	1.24	100		3.1	2.5	130	
15	100	120	22	0.93	0.77	100	28	1.85	1.5	100	32	3.7	2.9	140	40
20	75	90		1.2	1	120		2.47	1.99	120		4.94	4	150	
25	60	72		1.5	1.3	130		3	2.49	130		6.17	4.9	170	
30	50	60		1.8	1.4	140		3.6	2.98	180		7.4	5.87	260	
40	37.5	45	22	2.4	2	150	28	4.94	3.99	190	32	9.88	7.98	290	40
50	30	36		3	2.5	160		6.17	4.98	200		12.3	9.97	320	
60	25	30		3.6	3	220		7.4	5.98	220		14.8	11.9	350	
70	22	26		4.3	3.6	220		7.9	6.9	220		16.5	13.6	350	
75	20	24	22	4.6	3.7	220	28	9.2	7.5	220	32	18.5	14.9	350	40
80	18.7	22.5		4.9	4.1	220		9.4	7.9	220		18.4	15.5	350	
90	16.6	20		5.4	4.4	250		11	8.9	250		22.1	17.8	350	
100	15	18		6	5	250		12.3	9.9	250		24.7	19.9	350	
120	12.5	15	22	7.2	6	250	28	14.8	11.9	340	32	29.6	23.9	600	40
150	10	12		9.1	7.4	250		18.4	14.8	350		36.9	29.8	600	
180	8.3	10		11	9	250		22.2	17.9	350		44.4	35.9	600	
200	7.5	9		11.9	10	250		24.7	19.9	350		49.4	39.9	600	

※ The above valuesare subject to change without notice.

Normal Ratio & Actual Ratio

																		Standard Gearmotor											
Code 18	1/8 HP	Norml	3	5	7.5	10	12.5	15	18	20	21.4	25	30	36	40	50	60	75	80	90	100	120	150	180	200				
	Actual	3.3	5	7.5	10.8	12.7	15	17.7	20	21.4	25	29.5	36.7	40.5	50.4	60.2	73.3	--	91.7	107.6	122.2	150	165	198					
	1/4 HP	Norml	3	5	7.5	10	12.5	15	18	20	21.4	25	30	36	40	50	60	75	80	90	--	--	--	--	--				
	Actual	3.3	5	7.5	10.8	12.7	15	17.7	20	21.4	25	29.5	36.7	40.5	50.4	60.2	73.3	--	91.7	--	--	--	--	--					
Code 22	1/8 HP	Norml	60	70	80	90	100	120	140	150	160	180	200	240	--	--	--	--	--	--	--	--	--	--	--				
	Actual	63.1	68.9	75.6	92.7	103.1	120.7	131.3	143.4	157.3	192.8	215.9	239.9	--	--	--	--	--	--	--	--	--	--	--					
	1/4 HP	Norml	12.5	15	18	20	25	30	40	50	60	70	80	90	100	120	140	150	160	180	200	--	--	--	--				
	Actual	12.6	15.7	18.3	19.9	23.9	29.3	39.9	49.6	63.1	68.9	75.6	92.7	103.8	120.7	131.3	143.4	157.3	192.8	215.9	--	--	--	--					
	1/2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	35	40	50	60	75	90	--	--	--	--	--	--	--				
	Actual	3	5.1	7.4	10.9	12.9	15.4	--	21	26.9	31.7	--	40.7	48.9	66.6	74.9	85.1	--	--	--	--	--	--	--					
	1 HP	Norml	3	5	7.5	10	12.5	15	20	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	Actual	3.1	5.1	7.4	10.9	12.9	15.4	21	26.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
Code 28	1/4 HP	Norml	100	120	140	160	165	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	Actual	97.8	117.3	143.4	160	163.6	179.9	204.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	1/2 HP	Norml	12.5	15	18	20	25	30	40	50	60	70	80	90	100	120	140	160	165	180	200	--	--	--	--				
	Actual	12.2	15.6	18.8	22.9	25.6	32.6	38.4	49.3	59.1	72.3	80.6	90.7	97.8	117.3	143.4	160	163.6	179.9	204.3	--	--	--	--					
	1 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	40	50	60	75	90	100	120	--	--	--	--	--	--				
	Actual	3	5	7.7	9.7	12.5	15	18.3	20.5	26.1	30	39.4	47.3	57.8	73.3	85.1	100	127.7	--	--	--	--	--	--					
	2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	40	--	--	--	--	--	--	--	--	--	--	--	--				
	Actual	3	5	7.7	9.7	12.5	15	18.3	20.5	26.1	30	39.42	--	--	--	--	--	--	--	--	--	--	--	--					
Code 32	1/2 HP	Norml	100	120	140	150	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	Actual	109.8	129.6	137.4	155.6	171.8	194.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	1 HP	Norml	30	40	50	60	70	80	90	100	120	125	150	180	200	--	--	--	--	--	--	--	--	--					
	Actual	28	41	51.3	58.1	67.8	80	96	106	120	129.6	155.6	171.8	194.4	--	--	--	--	--	--	--	--	--						
	2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	40	50	60	70	80	90	100	--	--	--	--	--					
	Actual	3.2	5	7.9	10.4	12.1	14.3	17.2	19	25.1	28.2	41.6	48.6	57.3	68.9	76	86	107.5	--	--	--	--	--						
Code 40	1 HP	Norml	125	140	150	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	Actual	117.2	135	150	181	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
	2 HP	Norml	25	30	40	50	60	70	80	90	100	110	120	150	170	--	--	--	--	--	--	--	--	--					
	Actual	25	28.8	39.1	50	57.5	67.1	78.1	87.9	97.7	112.5	125	150.9	167.6	--	--	--	--	--	--	--	--	--						
	3 HP	Norml	3	5	10	15	20	25	30	40	45	50	60	70	80	90	100	--	--	--	--	--	--	--					
	Actual	3.3	5.4	9.6	14.4	19.5	25	28.8	39.1	44.9	50	57.5	67.1	78.1	87.9	97.7	--	--	--	--	--	--	--						
	5 HP	Norml	3	5	10	15	20	25	30	40	50	60	--	--	--	--	--	--	--	--	--	--	--	--					
	Actual	3.3	5.4	9.6	14.4	19.5	25	28.8	39.1	50	57.5	--	--	--	--	--	--	--	--	--	--	--	--						

Side Channel Ring Blower



Indication of Blower

RB 40 - 5 2 0

Model	Size	Output Code	Voltage	Others
RB : Side Channel Ring Blower	20 30 40 50 60 80	4 5 6 7	1 : 1Ø100-120/200-240V 50/60Hz, 1Ø108-120/216-240V 50/60Hz, UL/CSA 9 : 1Ø108-127/208-254V 50/60Hz 2 : 3Ø200-240/380-440V 50/60Hz 3 : 3Ø208-240/416-480V 50/60Hz, UL/CSA B : 3Ø200-240/345-416V 50Hz, 3Ø208-275/380-480V 60Hz	0 : Standard Type /CE U : UL / CSA Type

Blower with 60HZ

Model	Output (KW)	Voltage (V)	Phase	Rated Current (Amps)	Ultimate Pressure (mbar)	Max. Airflow (m³/h)	Noise Level dB(A)*
RB20-510	0.28	100-120 / 200-240	1Ø	3.4-3 / 1.73-1.6	+85	66	65
RB20-520	0.28	200-240 / 380-440	3Ø	1-0.93 / 0.55-0.53	+85	66	65
RB30-510	0.42	100-120 / 200-240	1Ø	5.5-4.7 / 2.8-2.36	+110	96	68
RB30-520	0.42	200-240 / 380-440	3Ø	1.92-1.93 / 1.08-1.18	+130	96	68
RB40-510	0.9	100-120 / 200-240	1Ø	16.4-12.8 / 8.2-6.5	+160	180	72
RB40-610	1.3	100-120 / 200-240	1Ø	17.7-13.9 / 8.7-7	+180	180	72
RB40-420	0.93	200-240 / 380-440	3Ø	4.1-3.64 / 2.1-2.44	+135	180	72
RB40-520	1.15	200-240 / 380-440	3Ø	5-4.45 / 2.63-2.53	+180	180	72
RB40-620	1.5	200-240 / 380-440	3Ø	6.2-5.3 / 3.3-3.1	+230	180	72
RB50-510	1.75	100-120 / 200-240	1Ø	22.3-17.3 / 10.7-8.3	+130	252	73
RB50-520	1.75	200-240 / 380-440	3Ø	8.2-7.3 / 4.38-4.27	+200	252	73
RB50-620	2.55	200-240 / 380-440	3Ø	10-8.8 / 5.3-4.84	+250	252	73
RB60-520	2.55	200-240 / 380-440	3Ø	11.7-10.3 / 6.4-6	+220	372	78
RB60-620	3.45	200-240 / 380-440	3Ø	15.7-13.4 / 8-7.4	+270	372	78
RB60-720	4.6	200-240 / 380-440	3Ø	18.7-15.4 / 9.5-8.6	+330	372	78
RB80-4B0	4.6	208-275 / 380-480	3Ø	22.8-17.8 / 12.4-10	+230	600	79
RB80-5B0	6.3	208-275 / 380-480	3Ø	26.1-21.8 / 14.1-12.4	+280	600	79
RB80-6B0	8.6	208-275 / 380-480	3Ø	36.4-32.6 / 20.5-18.8	+450	600	79

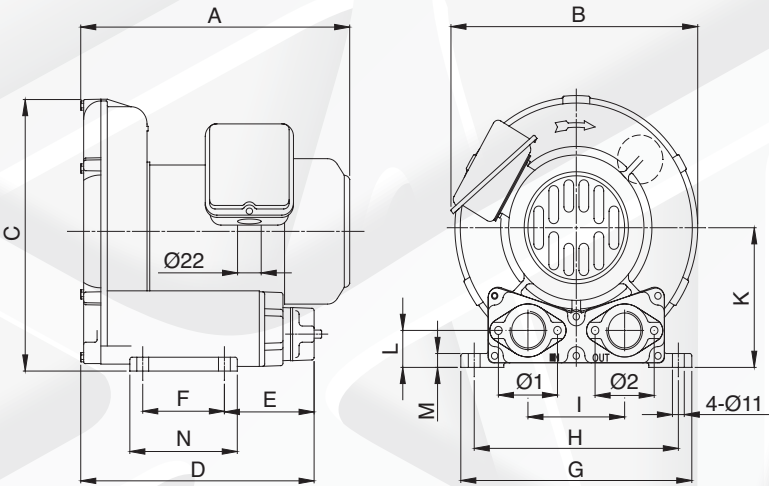
Vacuum with 60HZ

Model	Output (KW)	Voltage (V)	Phase	Rated Current (Amps)	Ultimate Pressure (mbar)	Max. Airflow (m³/h)	Noise Level dB(A)*
RB20-510	0.28	100-120 / 200-240	1Ø	3.23-2.97 / 1.68-1.58	-75	66	65
RB20-520	0.28	200-240 / 380-440	3Ø	1-0.9 / 0.53-0.52	-75	66	65
RB30-510	0.42	100-120 / 200-240	1Ø	5.1-4.34 / 2.58-2.21	-100	96	68
RB30-520	0.42	200-240 / 380-440	3Ø	1.83-1.95 / 1.06-1.17	-105	96	68
RB40-510	0.9	100-120 / 200-240	1Ø	15.81-12.35 / 7.69-6.28	-165	180	72
RB40-610	1.3	100-120 / 200-240	1Ø	17.41-13.6 / 8.42-6.84	-180	180	72
RB40-420	0.93	200-240 / 380-440	3Ø	3.97-3.53 / 2.08-2.11	-135	180	72
RB40-520	1.15	200-240 / 380-440	3Ø	4.75-4.31 / 2.61-2.55	-180	180	72
RB40-620	1.5	200-240 / 380-440	3Ø	5.66-5 / 3-2.91	-210	180	72
RB50-510	1.75	100-120 / 200-240	1Ø	22.4-17.4 / 10.3-8.3	-150	252	73
RB50-520	1.75	200-240 / 380-440	3Ø	7.4-6.77 / 4-3.99	-200	252	73
RB50-620	2.55	200-240 / 380-440	3Ø	8.55-7.7 / 4.6-4.45	-240	252	73
RB60-520	2.55	200-240 / 380-440	3Ø	11.6-9.9 / 6-5.6	-220	372	78
RB60-620	3.45	200-240 / 380-440	3Ø	13.7-12 / 7.1-6.7	-270	372	78
RB60-720	4.6	200-240 / 380-440	3Ø	15.9-13.3 / 8.2-7.6	-320	372	78
RB80-4B0	4.6	208-275 / 380-480	3Ø	22.8-17.6 / 12.5-10.1	-250	600	79
RB80-5B0	6.3	208-275 / 380-480	3Ø	25.5-21.7 / 13.7-12.3	-315	600	79
RB80-6B0	8.6	208-275 / 380-480	3Ø	25.3-26 / 14.6-14.3	-350	600	79

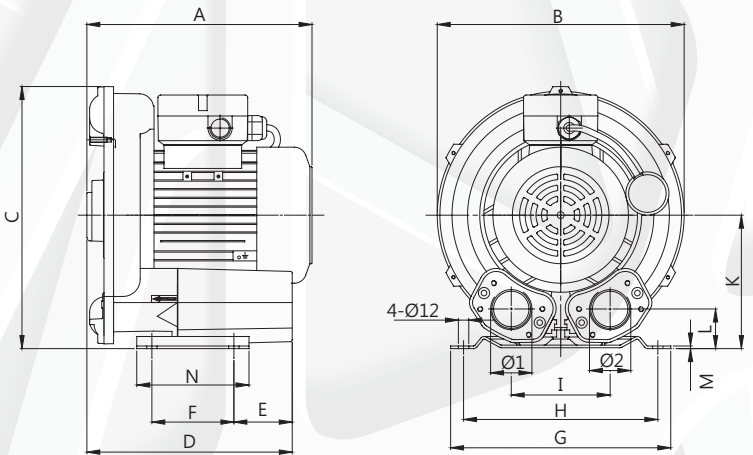
* Blower/ Vacuum open/ 4 points & 1 meter distance tes.

Specification of Blower

RB20-.../RB30-...



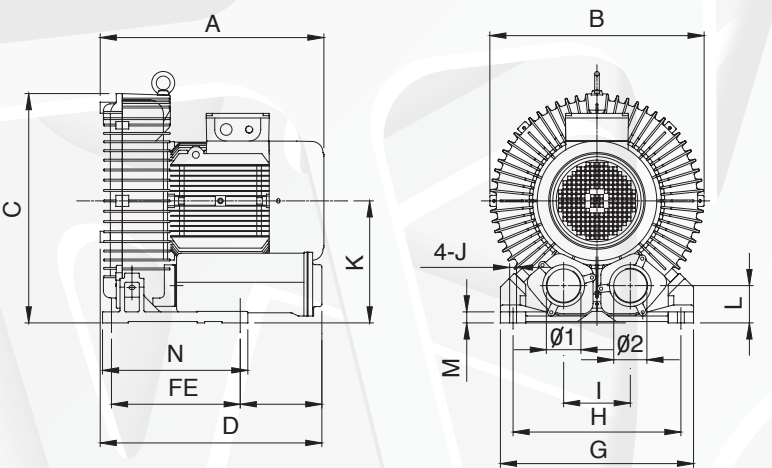
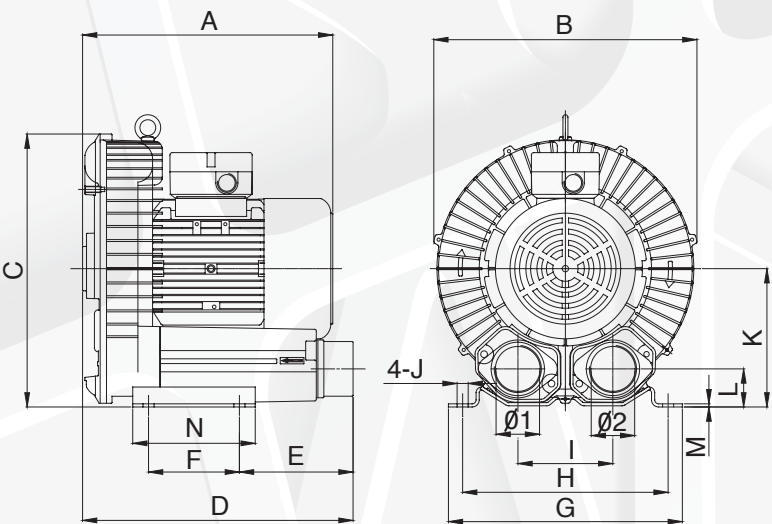
RB40-...



Dimension (mm)

Model	A	B	C	D	E	F	G	H	I	K	L	M	N	O1	O2
RB20-5...	225	236	238	218	87	76	212	190	90	120	34	12	100	G1"	G1"
RB30-5...	256	255	257	262	117	83	230	205	100	130	38	12	110	G1 1/4"	G1 1/4"
RB40-4...	261	286	303	238	68	95	255	225	115	154	46	3	130	G1 1/2"	G1 1/2"
RB40-5...	261	286	303	238	68	95	255	225	115	154	46	3	130	G1 1/2"	G1 1/2"
RB40-6...	281	286	303	238	68	95	255	225	115	154	46	3	130	G1 1/2"	G1 1/2"

Specification of Blower



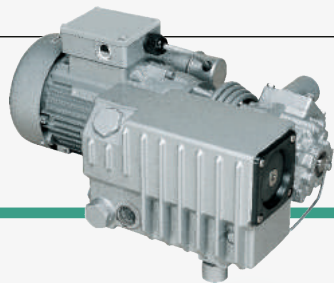
Dimension (mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Ø1	Ø2
RB50-...	317	333	345	342	142	115	296	260	120	14	175	48	4	155	G2"	G2"
RB60-...	364	382	383	380	130	140	325	290	125	15	197	53	4.5	180	G2"	G2"
RB80-...	487	466	498	482	178	280	420	365	145	15	265	91	24	316	G2 1/2"	G2 1/2"
RB80-...-Z	482	466	474	468	183	170	394	356	152	15	241	66	6	217	G2 1/2"	G2 1/2"

RB50-.../RB60-...



RB80-...



Rotary Vane Vacuum Pump

Indication of Vacuum Pump

CP	10	—	5	1	0
Model	Output	Ultimate Pressure	Voltage	Other	
CP: Rotary Vane Vacuum Pump	08: 1/2HP (0.35 / 0.45Kw) 10: 1HP (0.76 / 0.93Kw) 20: 2HP (1.10 / 1.50Kw) 30: 3HP (1.50 / 2.20Kw) 40: 4HP (3.00 / 3.45Kw)	4: 20 mbar (Induction Type*1) 5: 2 mbar (For CP10) 6: 0.5 mbar (CP20 Above)	1: 1Ø 100-120 / 200-240V, 50/60Hz 5: 1Ø 200-240V, 50/60Hz 2: 3Ø 200-240 / 380-440V, 50/60Hz	0: CE/ Standard Type	

Vacuum with 50HZ

Model	Output (KW)	Voltage (V)	Phase	Rated Current (Amps)	Ultimate Pressure*2 (mbar)	Max. Pump Speed (m³/h)	Noise Level*3 dB(A)	Type
CP08 - 573	0.35	220-240V	1Ø	2.4	2	8	59	Induction
CP08 - 5M3	0.35	110V	1Ø	5.5	2	8	60	Induction
CP08 - 5I3	0.35	100V	1Ø	4.4	2	8	60	Induction
CP10 - 410	0.76	100-120 / 200-240V	1Ø	7.5-12.2/4-6.8	20	20	72	Induction
CP10 - 510	0.76	100-120 / 200-240V	1Ø	7.5-12.2/4-6.8	2	20	72	Normal
CP10 - 450	0.76	200-240V	1Ø	4-6.8	20	20	72	Induction
CP10 - 550	0.76	200-240V	1Ø	4-6.8	2	20	72	Normal
CP10 - 420	0.76	200-240 / 380-440V	3Ø	2.5-2.9/1.5-1.9	20	20	72	Induction
CP10 - 520	0.76	200-240 / 380-440V	3Ø	2.5-2.9/1.5-1.9	2	20	72	Normal
CP20 - 420	1.1	200-240 / 380-440V	3Ø	5.4-6.4/3.4-4.2	20	40	70	Induction
CP20 - 620	1.1	200-240 / 380-440V	3Ø	5.4-6.4/3.4-4.2	0.5	40	70	Normal
CP30 - 420	1.5	200-240 / 380-440V	3Ø	6.1-7.6/3.8-5.5	20	63	74	Induction
CP30 - 620	1.5	200-240 / 380-440V	3Ø	6.1-7.6/3.8-5.5	0.5	63	74	Normal
CP40 - 420	3	200-240 / 380-440V	3Ø	6.5-8/4.5-5.2	20	100	74	Induction
CP40 - 620	3	200-240 / 380-440V	3Ø	6.5-8/4.5-5.2	0.5	100	74	Normal

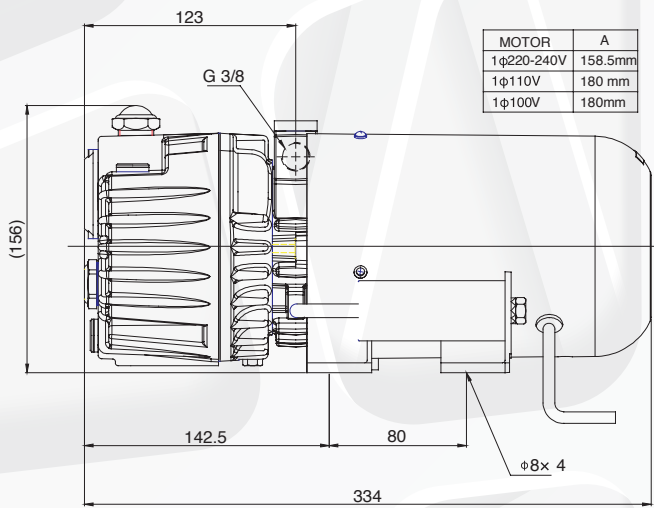
Vacuum with 60HZ

Model	Output (KW)	Voltage (V)	Phase	Rated Current (Amps)	Ultimate Pressure*2 (mbar)	Max. Pump Speed (m³/h)	Noise Level*3 dB(A)	Type
CP08 - 573	0.45	220-240V	1Ø	2.5	2	9.6	63	Induction
CP08 - 5M3	0.45	110V	1Ø	6.2	2	9.6	64	Induction
CP08 - 5I3	0.45	100V	1Ø	6.8	2	9.6	64	Induction
CP10 - 410	0.92	100-120 / 200-240V	1Ø	9.8-9.0/5.3-4.8	20	24	72	Induction
CP10 - 510	0.92	100-120 / 200-240V	1Ø	9.8-9.0/5.3-4.8	2	24	72	Normal
CP10 - 450	0.92	200-240V	1Ø	4.6-4	20	24	72	Induction
CP10 - 550	0.92	200-240V	1Ø	4.6-4	2	24	72	Normal
CP10 - 420	0.92	200-240 / 380-440V	3Ø	2.7-2.5/1.6-1.5	20	24	72	Induction
CP10 - 520	0.92	200-240 / 380-440V	3Ø	2.7-2.5/1.6-1.5	2	24	72	Normal
CP20 - 420	1.5	200-240 / 380-440V	3Ø	5.2-5.5/3.0-3.2	20	48	74	Induction
CP20 - 620	1.5	200-240 / 380-440V	3Ø	5.2-5.5/3.0-3.2	0.5	48	74	Normal
CP30 - 420	2.2	200-240 / 380-440V	3Ø	5.4-6.3/3.1-3.9	20	76	76	Induction
CP30 - 620	2.2	200-240 / 380-440V	3Ø	5.4-6.3/3.1-3.9	0.5	76	76	Normal
CP40 - 420	3.5	200-240 / 380-440V	3Ø	6.6-6.8/3.8-4.2	20	120	76	Induction
CP40 - 620	3.5	200-240 / 380-440V	3Ø	6.6-6.8/3.8-4.2	0.5	120	76	Normal

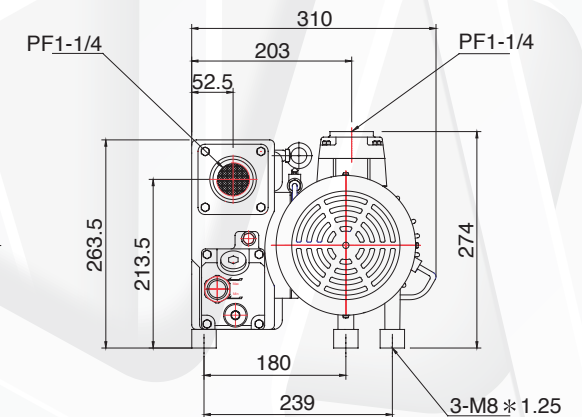
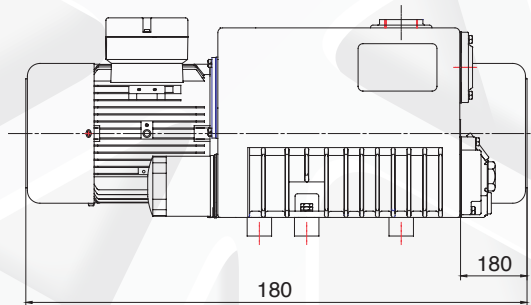
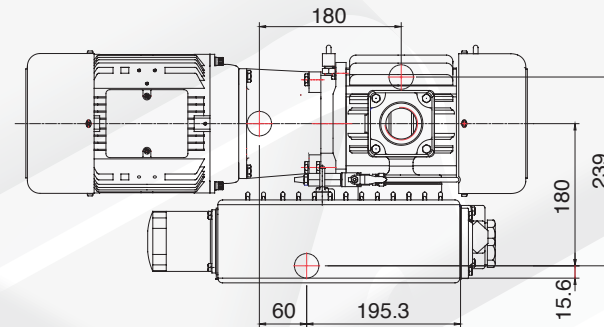
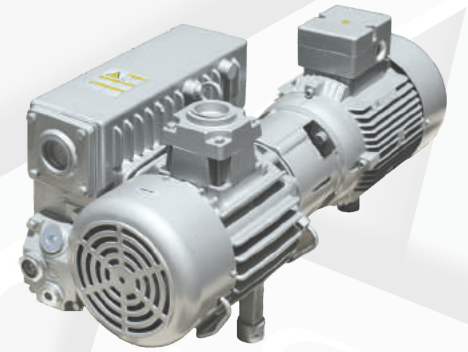
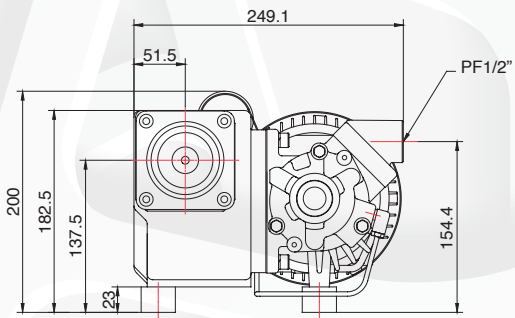
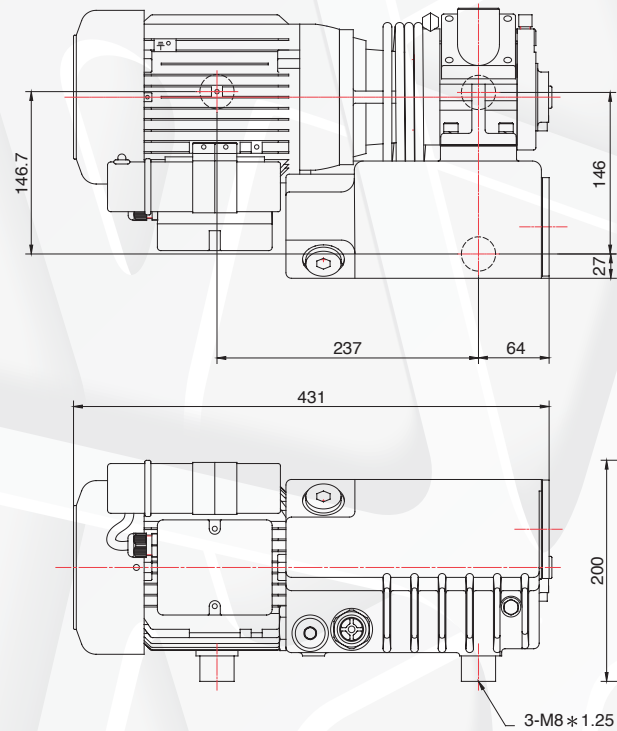
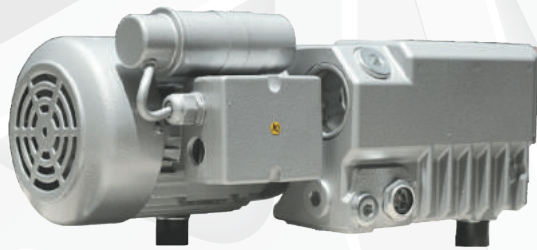
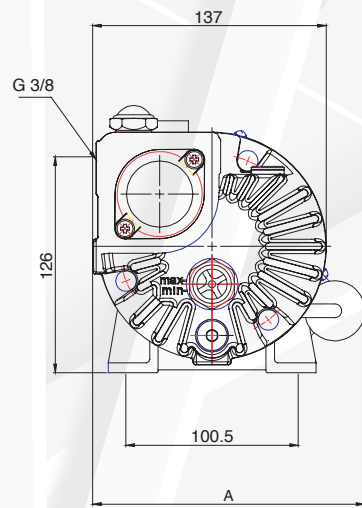
*1: Induction type can abstract the air successively under normal air pressure environment.
*2: Inlet flange pressure.
*3: db(A) value gets from 4 points & 1 meter distance test.
• Environment temperature 5°C-40°C.
• Prohibited to apply for drawing high-acid substance or high-corrosive gas.

Vacuum Pump Drawings

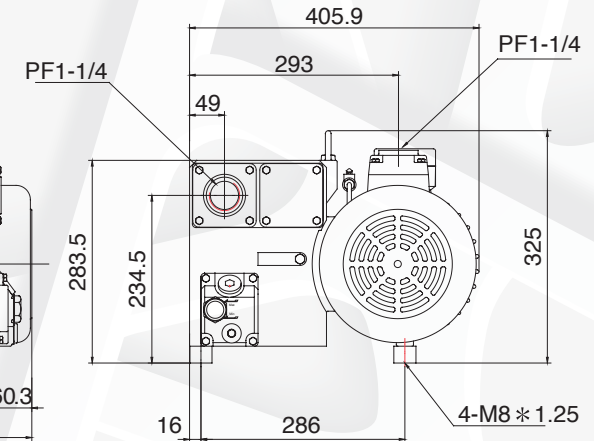
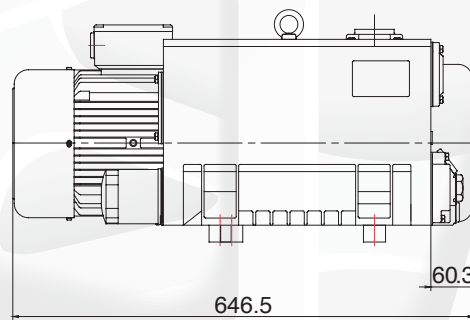
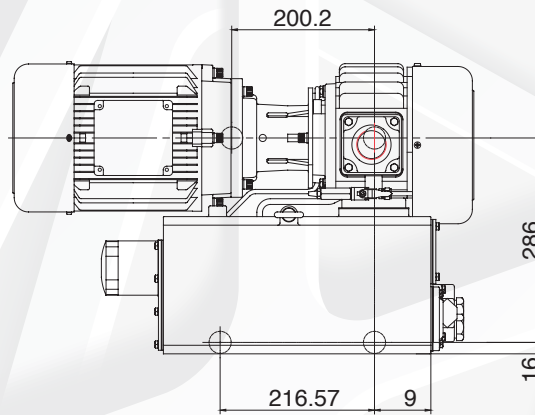
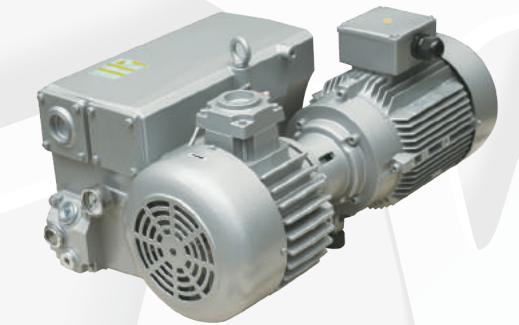
CP08



MOTOR	A
1φ220-240V	158.5mm
1φ110V	180 mm
1φ100V	180mm



CP30





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