



LDS
LEADERDRIVES

COMPACT GEAR MOTOR
HIGH PERFORMANCE | MINI DRIVE



COMPACT GEAR MOTOR

K
SERIES

GENERAL SPECIFICATION COMPACT ELECTRIC MOTOR AND GEAR REDUCER

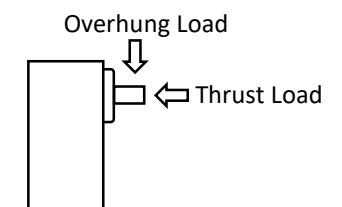
General Specification

Features	Specifications
Insulation Resistance	100 MΩ or more when DC500V is applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 1.5 kV at 50Hz and 60Hz applied between the windings and the frame for 1 minute after rated motor operation under normal operating temperature and humidity.
Temperature Rise	Temperature rise of windings are 80°C or less measured by the resistance change method after rated motor operation with connecting a gearhead or equivalent heat radiation plate.*
Insulation Class	Class B (130°C).
Overheat Protection	Impedance protected. (Optional Overload Thermal Protection)
Motor Protection	IP20 for motor with conductive wire; IP54 for motor with terminal box.
Operating Temperature	-10 °C to +50 °C.
Ambient Humidity	85% or less (non-condensation).
Conformity Certification	CE / CCC

Life Service Factor	Life Service Factor			Specifications:
	Type of Load	5hrs/day Operation	8hrs/day Operation	
Constant Load	0.8	1	1.5	The service life of the motor usually rely on the quality of its ball bearing. Standard service life of ball bearing is 10,000 hours* Load: Constant continuous running Frame: 80°C (roller bearing), 50°C (sinter oil bearing) Life expectancy may vary due to frequent load variation
Light Load	1.2	1.5	2	
Medium Load	1.5	2	2.5	Remark : Constant Load: Continuous one way operation. Light Load: Frequent start-stop, cam impact. Medium Load: Instant CW/CCW, instant stop.

Gearhead Operation Efficiency Permissible Thrust Load and Overhung Load

Gear Model	Gear Ratio	Max Torque (kg.cm)	Permissible Overhung Load (kgf)		Permissible Thrust Load (kgf)	Gearhead Operation Efficiency
			10mm from shaft end	20mm from shaft end		
2GN □ K	3 ~ 18	25	5	8	3	81%
	25 ~ 75		12	18		73%
	90 ~ 300		12	18		66%
3GN □ K	3 ~ 18	50	8	12	4	81%
	25 ~ 75		15	25		73%
	90 ~ 240		15	25		66%
4GN □ K	3 ~ 18	80	10	15	5	81%
	25 ~ 75		20	30		73%
	90 ~ 300		20	30		66%
5GN □ K	3 ~ 18	100	25	35	10	81%
	25 ~ 75		30	45		73%
	90 ~ 240		30	45		66%
5GU □ K 5GU □ KB	3 ~ 9	200	40	50	15	81%
	12.5 ~ 18		45	60		81%
	25 ~ 75		50	70		73%
	90 ~ 240		50	70		66%
6GU □ KB	3 ~ 9	400	55	80	20	90%
	12.5 ~ 18		55	80		90%
	25 ~ 75		65	100		86%
	90 ~ 240		65	100		81%





COMPACT GEAR MOTOR



MOUNTING INSTRUCTION COMPACT ELECTRIC MOTOR AND GEAR REDUCER

Precautions for Installation

Check the technical specification and voltage on the identification label of the gear motor with your design requirement before any installation. For helical gear motor, gearhead should well-match with the motor dimension and specification.

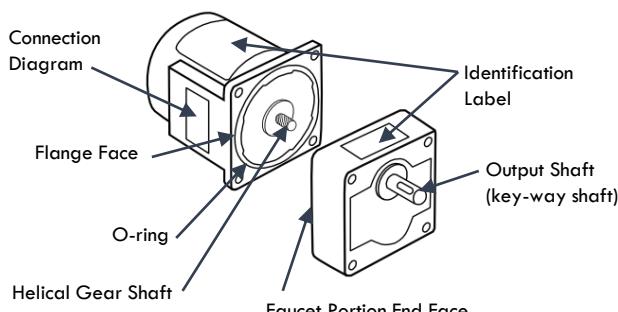
Round shaft motor

After drilling holes on the mounting plate, use 4 screws, washers and nuts to fasten the motor onto the mounting plate (screws and nuts are not offered with this motor). Please make sure there is no gap between the motor's flange face and mounting plate.

Helical gear shaft motor (in combination with gearhead)

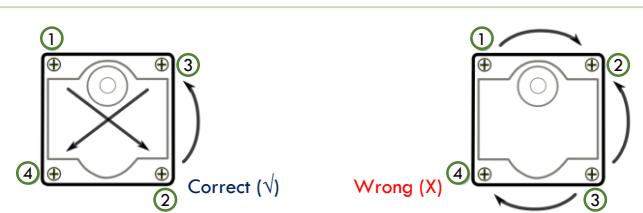
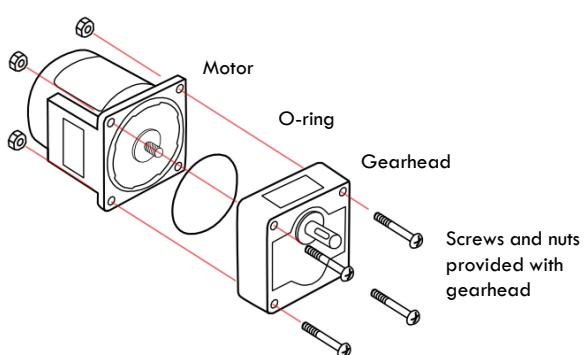
After drilling holes on the mounting plate, use the 4 screws and nuts supplied with the gearhead to fasten gearhead and motor (come with O-ring) on the mounting plate. Make sure the gearhead is installed properly on the motor and there is no gap between the motor flange face and gearhead.

Gearhead is combined with a motor using the recessed areas on each unit as guides. DO NOT contact a tooth tip of pinion shaft to a tooth tip of gearhead. Set each tooth of motor and gearhead correctly and gently press and turn the gearhead in clockwise and counter-clockwise.



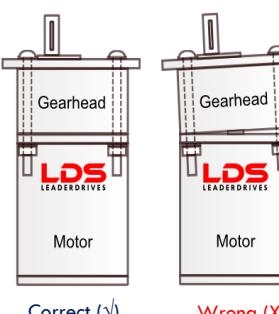
Remark: When face mounting the geared motor to an assembly, Do not remove or twist the gearhead from or on the motor. This will cause the O-ring to deform (become distorted or damaged) resulting in grease leakage when reassembled.

During replacement or maintenance, please replace the o-ring if it is damaged or distorted. You may contact your LDS representative to obtain the o-ring for free of charge.



Tightening of fixing bolts

Do not forcefully assemble the motor and gear head. Do not damage the tooth of the motor and gear head. Incorrect assembly results in abnormal noise generation or shortened unit life.



Gearhead Installation

Install gearhead properly and there is no gap between the motor flange face and gearhead.



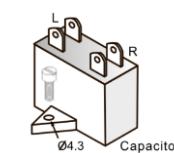
On installation, the mounting of the motor must allow a free-flow of cooling air over the surface of the motor (leave a minimum 20~30mm space from the rear cover of the motor).

Screw used for installation			
Model (Motor)	Model (Gearhead)	Screw Size	Installation Torque
2IK/2RK	2GN	M4	20kgfcm
3IK/3RK	3GN	M5	25kgfcm
4IK/4RK	4GN	M5	25kgfcm
5IK/5RK	5GN/5GU	M6	30kgfcm
6IK/6RK	6GU	M8	35kgfcm

Important Instruction for Capacitor Installation

Before installation, please ensure correct capacitor is being used with your motor (supplied with single phase motor).

Capacitor should be installed at least 10cm away from the motor by using M4 screws. Too close to a motor will result in excessive heat hence shorten the lifespan of capacitor.



COMPACT GEAR MOTOR



GLOSSARY OF TERMS COMPACT ELECTRIC MOTOR AND GEAR REDUCER

Poles

LDS motors are available 2Pole (3000rpm), 4Pole (1500rpm) and 6Pole (1000rpm), in 50Hz System (8pole – 750rpm is not available).

Power Rating / Output Power

A power rating is a measurement of the maximum amount of power that can be used with a specific tool or device. It is measured in Watt (W), Kilowatt (kW) or Horsepower (HP).

Rated Output Torque [Kgm / Kgcm / Nm]

This is the limit of mechanical strength of the speed reduction mechanism. Make sure that the applied torque, including the acceleration torque and load fluctuation, does not exceed the permissible torque (the load should never be greater than what the motor is rated for).

Rated Voltage (V)

Motors are designed to yield optimal performance when operating at a specific voltage level. LDS Motors are available in single-phase (1Ø) 100-110V and 220-240V, three-phase (3Ø) 220-240V and 380-415V.

Service Factor (S.F)

Service factor can be generally defined as an application's required value over the rated value of the unit. Service factor should be determined for conditions such as non-uniform load, hours of service, and elevated ambient temperature. A service factor of 1.0 means a unit has just enough capacity to handle the application. There is no tolerance for additional requirements, which could cause the gearbox to overheat or fail.

Temperature / Temperature Rise in Motor

Temperature rise is the change within a motor when operating at full load. When a motor is operating, all energy losses of the motor are transformed into heat, causing the motor temperature to rise. In an ambient temperature area, surface temperature of LDS's 1-phase motor will rise to 80°C after 60minute of continuous operation; 3-phase motor's surface temperature will rise to 40°C after 60minute of continuous operation. (Use infrared thermometer to measure the motor temperature. Do not judge the motor temperature by touching the motor surface, or you could get injured).

Thermal Overload Protection (TP)

Thermal protection is a method of electric motor protection that is activated when a motor operating at the rated voltage locks up for some reason with the power still being supplied. It uses a thermal relay inside the motor to break the circuit to the winding coil at a temperature below the level that would cause burning (overheating). Other protection methods including overload relay, motor thermostat and fuse.

Type of Load

High shock or impact loads can cause increased wear on the gear teeth and shaft bearings. This wear could cause premature failure if not accounted for when sizing. These loads will require an increased service factor. **Uniform loads** are loads that remain constant during the application, while non-uniform loads change during the application. **Non-uniform loads**, even if small, will require a higher service factor than uniform loads. An example of a uniform load would be a conveyor with a consistent product amount riding on it. A non-uniform load would be any sort of intermittent cutting application. This intermittent cutting force causes a periodic increase in the torque on the gearbox, which is a non-uniform load.

Under-Voltage will cause under-power of electric motor. The motor slip also increases proportionally to the square of the voltage drop. As a result, the motor will be running slower with a lower output and the process would not be producing as expected.

Unbalanced Voltages are unequal voltage values on 3-phase circuits that can exist anywhere in a power distribution system.



INVERTER MOTOR

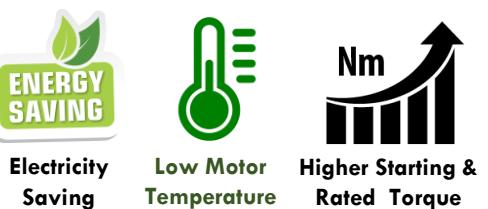
COMPACT ASYNCHRONOUS MOTOR

V-Series

- Asynchronous Motor Series with LED Digital Display Inverter Controller
- Smallest size and light weight to achieve compact equipment requirement
- Motor Rating : 25W ▪ 40W ▪ 60W ▪ 90W ▪ 120W ▪ 150W ▪ 180W ▪ 200W ▪ 250W
- Gearhead Ratio (1/X) : Single Stage 3~300 (Double Stage up to 3000)
- Inverter Input Voltage : AC 1ph 220V ~ 240V, 50Hz/60Hz
- Inverter Output Voltage : AC 3ph 220V

Key advantages of Inverter Motor compared to Speed Control Motor package

- Easy operation and installation with higher starting torque up to 200%
- Low motor operating temperature to further extend product lifespan
- Wide adjustable speed range up to 400Hz (Speed control motor max. 50Hz)
- Motor Overload Protection with alarm signal is possible via ampere setting
- Easy switching of multiple-speed, forward/reverse running direction
- Adjustable acceleration and deceleration of speed provide soft-starting and stopping, and smooth speed change
- Improved speed regulation can be accomplished by slip compensation
- Direct replaceable - same size and mounting with major speed control motors
- Inverter Motor as replacement for DC motor with controller is possible



INVERTER GEAR MOTOR OPTIONS AND ACCESSORIES



Optional Helical Gear Motor / Worm Gear Motor
Rating up to 200W



Bevel Gear Motor
Compact Right Angle solution



Acrylic Protective Cover
For compact IGBT Inverter

COMPACT HELICAL GEAR SPIRAL BEVEL GEAR

AC COMPACT GEAR MOTOR

IK Series

- Power Rating : 6W ▪ 15W ▪ 25W ▪ 40W ▪ 60W ▪ 90W ▪ 120W ▪ 150W ▪ 180W ▪ 200W
- Most common compact gear motor in the industry
- Compact design and light weight, and easy operation and installation
- Compatible with Oriental Motor, Panasonic and SPG motor
- Optional accessories: Electromagnetic brake 240V ▪ Clutch and brake DC 24V ▪ Speed controller ▪ Extension cable ▪ Axial cooling fan 240V ▪ Foot mounting bracket ▪ Decimal gear 10X ▪ Thermal protection (Automatic / Signal type)



Compact Right Angle Package

Compact Bevel Gear Motor 40W ~ 180W
*Mounting Frame Size 90mm x 90mm
*Hollow Output Shaft Bore Dia. 17mm

Compact Gear Motor Series



Speed Control Gear Motor
Analogue speed controller
Digital Display Speed Controller



1phase / 3phase Gear Motor
Hinge Type Gearhead /
Motor with Terminal Box



Brake Motor
AC 220V Electromagnetic Brake
DC 24V Clutch & Brake



Customized Gear Motor
For specific application
1000rpm/1400rpm/2800rp
m



DMRS / 8MRV Series
With Worm Gear Reducer



DMRV Series
With Worm Gear Reducer



SS / SD Series
Din rail Type Speed Controller
Backpad



Accessories
Foot Mounting Bracket
Extension Cable 6cores



COMPACT GEAR MOTOR

K

SERIES

PRODUCT CODING SYSTEM

COMPACT ELECTRIC MOTOR AND GEAR REDUCER

LDS
LEADERDRIVES



COMPACT GEAR MOTOR

K

SERIES

PRODUCT CODING SYSTEM

COMPACT GEAR REDUCER



6	I	K	200	V	GN	-	S
Motor Frame Size		Series					
2 : 60mm Sq. (2.36")		K : K series					
3 : 70mm Sq. (2.76")							
4 : 80mm Sq. (3.15")							
5 : 90mm Sq. (3.54")							
6 : 104mm Sq. (4.09")							
Motor Type							
I : Induction							
R : Reversible							
Remark							
* Default motor design is 4pole, 50Hz (1,400rpm)							

2,800 ■ 1,400rpm
6W~200W

1,400 ■ 2,800rpm
40W~200W

Induction & Reversible
Gear Motor (Capacitor Run)
6W~200W

Induction Gear Motor
(with Flange gearhead &
Terminal Box)

Compact Gear Motor with
Decimal Gearhead
Gear Ratio 1/300 ~ 1/2400

Output Power

6W

15W

25W

40W

60W

90W

120W

150W

180W

200W

250W

Option

R : Variable Speed

V : Inverter Duty

Output Power

GN : Helical Gear Shaft

GX : Helical Gear Shaft X*

GB : Clutch & Brake Shaft

A : 1Ø100V, 50Hz

A2 : 1Ø110V, 50Hz

C : 1Ø220V, 50Hz

C2 : 1Ø240V, 50Hz

S : 3Ø220V, 50Hz

S2 : 3Ø240V, 50Hz

S3 : 3Ø380V, 50Hz

S4 : 3Ø415V, 50Hz

TQ : 3Ø240/415V, 50Hz

VS : Viton Oil Seal

F

Option / Accessories

B : Electro-magnetic Brake

EF : Co-active Powerful
Cooling Fan (40CFM)

F : Standard Cooling Fan
(Shaft-mounted type)

N : Special Key Shaft

T : Terminal Box (IP44)

W : Thermal Overload
Protection (Signal Type)

Y : Thermal Overload
Protection
(Automatic Reset Type)

2P : 2Pole Motor (2,800rpm)

VS : Viton Oil Seal



Parallel Shaft Gearhead
Square Gearbox Type
Gear Reduction Ratio 3~300
For Motor Power 6W ~ 200W
(Part No: 2GN_K, 3GN_K,
4GN_K, 5GN_K, 5GU_KB, 6GU_KB)

Parallel Shaft Gearhead
Hinge Type Gearbox
(a.k.a Flange Type Gearbox)
Gear Reduction Ratio 3~240
For Motor Power 60W ~ 180W
(Part No: 5GU_K)

Decimal Gear (use with Gearhead)
Gear Reduction Ratio multiply by 10x
For Motor Power 40W ~ 180W
(Part No: 5GN10X, 5GU10X)

Spiral Bevel Gearhead
Right Angle Hollow Shaft Type
Gear Reduction Ratio
9~ 225 (370 ~ 2250)
For Motor Power 40W ~ 180W
(Part No: 5GN_RH / 5GU_RH)

Worm Gearhead
Right Angle Hollow Shaft Type
Gear Reduction Ratio
5~ 80 (100 ~ 14400)
For Motor Power 40W ~ 180W
(DMRV#30, 8MRV#30,
DMRV#40, 8MRV#40)

PRODUCTS AT A GLANCE



Round-Shaft Electric Motor
2,800 ■ 1,400rpm
6W~200W

Key-Shaft Electric Motor
1,400 ■ 2,800rpm
40W~200W

Induction & Reversible
Gear Motor (Capacitor Run)
6W~200W

Induction Gear Motor
(with Flange gearhead &
Terminal Box)

Compact Gear Motor with
Decimal Gearhead
Gear Ratio 1/300 ~ 1/2400



Electro-Magnetic Brake
Gear Motor (Brake 220V)
6W~200W

Clutch & Brake Gear Motor
(Clutch & Brake DC24V)
40W~200W

Variable Speed Gear Motor
with Analogue Controller
6W~200W, 1Phase

Variable Speed Motor
with Analogue Controller
6W~200W, 1Phase

Compact Gear Motor
With Compact IGBT Inverter
25W~200W, 1Phase



Worm Gear Package
Gear reduction ratio 5~100
40W~200W

Worm Gear Package
with Electromagnetic Brake
40W~200W

Worm Gear Package
Gear Reduction
Ratio 125~14,400

Hollow Shaft
Spiral Bevel Gear Motor
40W~180W

Compact Spiral Bevel Gear Motor
With Compact IGBT Inverter
40W~180W, 1Phase

GU

Gearhead Frame Size

2 : 60mm Sq. (2.36")

3 : 70mm Sq. (2.76")

4 : 80mm Sq. (3.15")

5 : 90mm Sq. (3.54")

6 : 104mm Sq. (4.09")

Gear Reduction Ratio

1/3 ~ 1/300

Gearhead Type

GN : For helical gear motor 6W~40W

GU : For helical gear motor 60W~200W

K

Design

K : Ball Bearing

X : Decimal Gearhead
(10X)

B

5GU Gear Box Option

For Motor Power
60W ~ 200W Motor

[] : Hinge Type Gearhead

B : Square type Gearhead

Option

[] : Wet Grease Filled

BQ : Dry Grease Filled

VS : Viton Oil Seal for
Output Shaft

Gear Reduction Ratio		3	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90
Output Speed (RPM)		450	270	225	180	150	108	90	75	54	45	37.5	27	22.5	18	15
6W	2GN	1.2	1.9	2.3	2.9	3.4	4.7	5.7	6.8	9.3	11	13	16	20	24	30
15W	3GN	3	4.7	5.7	7.1	8.5	12	14	18	23	28	33	46	50	50	50
25W	4GN	5	7.8	9.4	12	14	20	23	28	38	46	55	65	77	80	80
40W	5GN	7.3	12	15	18	22	30	36	43	54	65	77	100	100	100	100
60W	5GU	12	19	22	28	34	48	55	62	82	98	118	164	196	200	200
90W	5GU	18	28	34	43	51	71	85	96	125	150	178	200	200	200	200
120W	5GU	24	40	48	58	65	94	108	130	180	200	200	200	200	200	200
150W	5GU	27	46	55	65	72	105	118	148							



Parallel Shaft Gearhead
Square Gearbox Type
Gear Reduction Ratio 3~300
For Motor Power 6W ~ 180W
(Part No: 2GN_K, 3GN_K,
4GN_K, 5GN_K, 5GU_KB)

Parallel Shaft Gearhead
Hinge Type Gearbox
(a.k.a Flange Type Gearbox)
Gear Reduction Ratio 3~240
For Motor Power 60W ~ 180W
(Part No: 5GU_K)

Decimal Gear (use with Gearhead)
Gear Reduction Ratio multiply by 10x
For Motor Power 40W ~ 180W
(Part No: 5GN10X, 5GU10X)

Spiral Bevel Gearhead
Right Angle Hollow Shaft Type
Gear Reduction Ratio
9~ 225 (370 ~ 2250)
For Motor Power 40W ~ 180W
(Part No: 5GN_RH / 5GU_RH)

Worm Gearhead
Right Angle Hollow Shaft Type
Gear Reduction Ratio
5~ 80 (100 ~ 14400)
For Motor Power 40W ~ 180W
(DMRV#30, DMRS#30, 8MRV#30,
DMRV#40, DMRS#40, 8MRV#40)

5 - GU - 225 - RH -

Spiral Bevel Gear Reducer Model
5 : 90mm Sq. (3.54")

Gearhead Type
GN : For helical gear motor 40W
GU : For helical gear motor 60W-180W

Gear Reduction Ratio
1/9 ~ 1/225

Output Shaft Type
RH : Hollow Shaft
RS : Solid Output Shaft

Option
[] : Normal Oil Seal
VS : Viton Oil Seal

* Compact Hypoid Bevel Gear Reducer is applicable for Compact Gear Motor 40W ~ 180W only.



PERMISSIBLE OUTPUT TORQUE

Compact Bevel Gear Reducer Ratio and Output Torque (Based on 4Pole Motor, 50Hz)

Gear Reduction Ratio		9	15	18	22.5	27	37	45	54	75	90	108	150	180	225
Output Speed (RPM)		150	90	75	60	50	36	30	25	18	15	12.5	9.0	7.5	6
Rated Power	40W	22	37	44	54	54	90	110	132	150	208	220	220	220	220
	60W	34	57	68	83	83	140	170	204	220	220	220	220	220	220
	90W	51	85	102	125	125	210	220	220	220	220	220	220	220	220
	120W	65	108	130	159	159	220	220	220	220	220	220	220	220	220
	150W	72	120	144	176	176	220	220	220	220	220	220	220	220	220
	180W	79	132	158	193	193	220	220	220	220	220	220	220	220	220

Gear Reduction Ratio		(270)	(370)	(450)	(540)	(750)	(900)	(1080)	(1500)	(1800)	(2250)
Output Speed (RPM)		5	3.6	3	2.5	1.8	1.5	1.25	0.9	0.75	0.6
Rated Power	40W	220	220	220	220	220	220	220	220	220	220
	60W	220	220	220	220	220	220	220	220	220	220
	90W	220	220	220	220	220	220	220	220	220	220
	120W	220	220	220	220	220	220	220	220	220	220
	150W	220	220	220	220	220	220	220	220	220	220
	180W	220	220	220	220	220	220	220	220	220	220

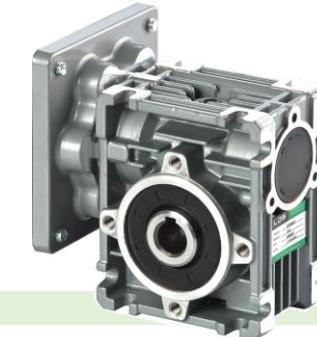
() For Hypoid Bevel Gear Head, Gear Reduction Ratio 270 ~ 2250 can be achieved by adding Decimal Gear Reducer (5GN10X or 5GU10X).

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

COMPACT GEAR MOTOR



PRODUCT CODING SYSTEM
COMPACT GEAR REDUCER



8MRV - 030 - 80 - CM09

Aluminium Worm Gear Reducer Model

030

8MRV
DMRV
DMRS

Series (#)

030
040
050
063

Output Shaft Option

[] : Hollow Output Shaft
L : Single Shaft - Left
R : Single Shaft - Right
T : Double Shaft

Ratio

1/5 ~ 1/19,200

Input Flange Design

CM09 : Single Worm Gearbox (5IK)

CG09 : Double Gearbox (5GN/5GU)
(Parallel Shaft Gearbox + Worm Gearbox)

CM10 : Single Worm Gearbox (6IK)

CG10 : Double Gearbox (6GN/6GU)
(Parallel Shaft Gearbox + Worm Gearbox)

* Aluminium Worm Gear Reducer is applicable for Compact Gear Motor 40W ~ 200W only.

PERMISSIBLE OUTPUT TORQUE

#030 Series Worm Gear Reducer Ratio and Output Torque (Based on 4Pole Motor, 50Hz)

Gear Reduction Ratio		5	7.5	10	15	20	25	30	40	50	60	80	(100)	(135)	(150)	(180)
Output Speed (RPM)		270	180	135	90	68	54	45	34	27	22.5	16.9	13.5	10	9	7.5
Rated Power	40W	14	21	28	42	56	70	84	112	140	168	210	210	210	210	210
	60W	17	26	34	51	68	85	102	136	170	204	210	210	210	210	210
	90W	25	38	50	75	100	125	150	200	210	210	210	210	210	210	210
	120W	34	50	67	101	134	168	210	210	210	210	210	210	210	210	210
	150W	42	62	83	125	166	208	210	210	210	210	210	210	210	210	210
	180W	49	74	98	147	196	245	294	392	400	400	400	400	400	400	400

#040 Series Worm Gear Reducer Ratio and Output Torque (Based on 4Pole Motor, 50Hz)

Gear Reduction Ratio		5	7.5	10	15	20	25	30	40	50	60	80	(100)	(135)	(150)	(180)
Output Speed (RPM)		270	180	135	90	68	54	45	34	27	22.5	16.9	13.5	10	9	7.5
Rated Power	40W	14	21	28	42	56	70	84	112	140	168	224	280	378	400	400
	60W	17	26	34	51	68	85	102	136	170	204	272	340	400	4	

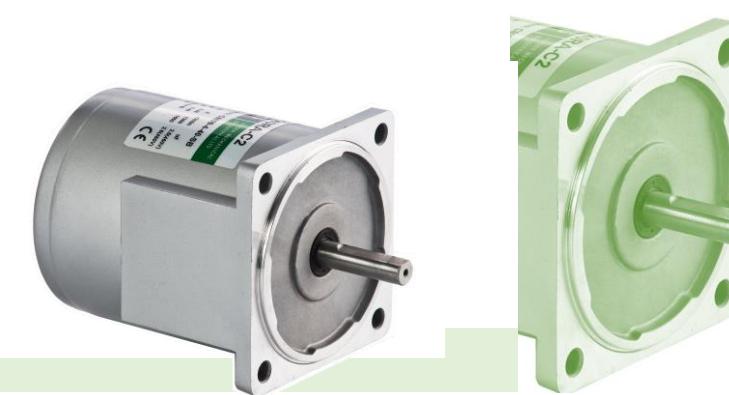


COMPACT GEAR MOTOR

K
SERIES

INDUCTION MOTOR

SINGLE PHASE (1Ø – CAPACITOR RUN)

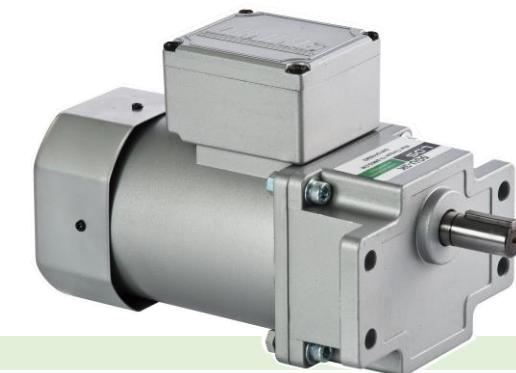


COMPACT GEAR MOTOR

K
SERIES

INDUCTION MOTOR

THREE PHASE (3Ø)

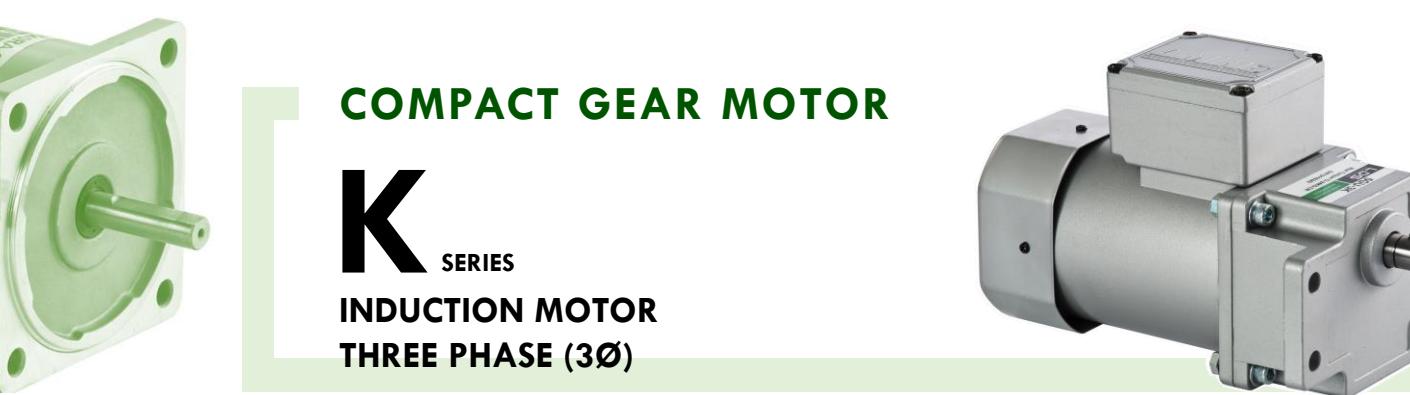


The most common of all motors is the standard Induction Motor, it's designed for continuous 24/7 operation in one direction. While it is capable of going both forward and reverse, its main role is just single direction use.

General Specifications:

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor	
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM		Capacity (µF)	VAC
6W	2IK6A-A	2IK6GN-A	1Ø110	50	0.25	0.44	0.45	1300	4P	2.5	250
	2IK6A-C2	2IK6GN-C2	1Ø240	50	0.14	0.41	0.45	1300		0.8	450
15W	3IK15A-A	3IK15GN-A	1Ø110	50	0.38	1.01	1.22	1300	4P	4	250
	3IK15A-C2	3IK15GN-C2	1Ø240	50	0.2	0.88	1.22	1300		1.2	450
25W	4IK25A-A	4IK25GN-A	1Ø110	50	0.45	1.3	1.87	1320	4P	6	250
	4IK25A-C2	4IK25GN-C2	1Ø240	50	0.23	1.45	1.82	1320		1.5	450
40W	5IK40A-A	5IK40GN-A	1Ø110	50	0.83	2.26	3.0	1350	4P	10	250
	5IK40A-C2	5IK40GN-C2	1Ø240	50	0.4	2.17	3.4	1350		2.5	450
60W	5IK60A-AF	5IK60GN-AF	1Ø110	50	1.18	3.35	4.37	1350	4P	16	250
	5IK60A-C2F	5IK60GN-C2F	1Ø240	50	0.58	3.35	4.37	1350		3.5	450
90W	5IK90A-AF	5IK90GN-AF	1Ø110	50	1.58	4.5	6.2	1350	4P	20	250
	5IK90A-C2F	5IK90GN-C2F	1Ø240	50	0.80	4.6	6.2	1350		5.5	450
120W	5IK120A-AF	5IK120GN-AF	1Ø110	50	1.85	6.7	8.5	1350	4P	25	250
	5IK120A-C2F	5IK120GN-C2F	1Ø240	50	0.98	6.4	8.5	1350		6	450
150W	5IK150A-C2F	5IK150GN-C2F	1Ø240	50	1.10	7.0	9.94	1320	4P	7	450
180W	5IK180A-C2F	5IK180GN-C2F	1Ø240	50	1.15	7.8	11.3	1320	4P	8	450
200W	6IK200A-C2F	6IK200GN-C2F	1Ø240	50	1.38	9.8	15.6	1350	4P	12	450
250W	6IK250A-C2F	6IK250GN-C2F	1Ø240	50	1.45	10.6	16.9	1350	4P	16	450

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V Available upon request.

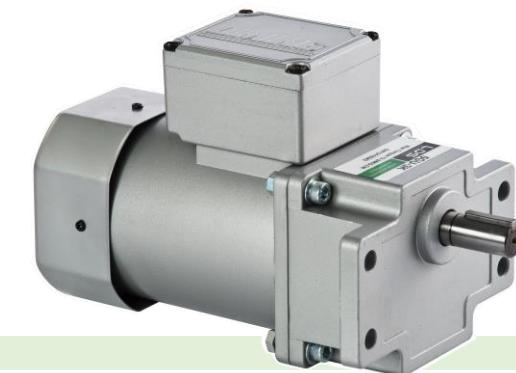


COMPACT GEAR MOTOR

K
SERIES

INDUCTION MOTOR

THREE PHASE (3Ø)



The most common of all motors is the standard Induction Motor, it's designed for continuous 24/7 operation in one direction. While it is capable of going both forward and reverse, its main role is just single direction use.

General Specifications:

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM	
25W	4IK25A-S	4IK25GN-S	3Ø220	50	0.23	3.0	2.06	1320	4P
	4IK25A-S4	4IK25GN-S4	3Ø415	60	0.21	2.6	1.63	1620	
40W	5IK40A-S	5IK40GN-S	3Ø220	50	0.36	4.7	3.17	1350	4P
	5IK40A-S4	5IK40GN-S4	3Ø415	60	0.21	4.5	3.0	1350	
60W	5IK60A-SF	5IK60GN-SF	3Ø220	50	0.5	7.4	4.9	1350	4P
	5IK60A-S4F	5IK60GN-S4F	3Ø415	60	0.45	6.4	4.0	1650	
90W	5IK90A-SF	5IK90GN-SF	3Ø220	50	0.65	9.7	6.5	1350	4P
	5IK90A-S4F	5IK90GN-S4F	3Ø415	60	0.60	8.4	5.3	1650	
120W	5IK120A-SF	5IK120GN-SF	3Ø220	50	0.75	11.5	8.95	1350	4P
	5IK120A-S4F	5IK120GN-S4F	3Ø415	60	0.72	9.5	7.5	1650	
150W	5IK150A-SF	5IK150GN-SF	3Ø220	50	0.95	12.8	10.7	1320	4P
	5IK150A-S4F	5IK150GN-S4F	3Ø415	60	0.88	10.2	9.5	1620	
180W	5IK180A-SF	5IK180GN-SF	3Ø220	50	1.04	13.4	12.3	1320	4P
	5IK180A-S4F	5IK180GN-S4F	3Ø415	60	1.00	10.8	10.1	1620	
200W	6IK200A-SF	6IK200GN-SF	3Ø220	50	1.00	18.5	15.7	1400	4P
	6IK200A-S4F	6IK200GN-S4F	3Ø415	60	0.89	15.9	13.8	1700	
250W	6IK250A-SF	6IK250GN-SF	3Ø220	50	1.13	21.6	17.3	1400	4P
	6IK250A-S4F	6IK250GN-S4F	3Ø415	60	1.01	19.2	15.1	1700	

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V Available upon request.
Voltage "U" represents Dual-voltage 220V/380V; and "TQ" represents Dual-voltage 240V/415V.



COMPACT GEAR MOTOR

K

SERIES

INDUCTION MOTOR - 2POLE

SINGLE PHASE (1Ø) / THREE PHASE (3Ø)



COMPACT GEAR MOTOR

K

SERIES

REVERSIBLE MOTOR - RATED 30MIN

SINGLE PHASE (1Ø)



General Specifications (Single Phase Motor - 1Ø) :

Output Power (Watt)	Product Code	AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor	
						Torque (Kg.cm)	RPM		Capacity (µF)	VAC
60W	5IK60A-A2F-2P	1Ø110	50	0.95	1.8	2.0	2780	2P	16	250
			60	0.90	1.8	1.8	3220		3.5	450
90W	5IK90A-A2F-2P	1Ø110	50	1.6	3	3.6	2780	2P	20	250
			60	1.6	3	3.2	3220		5.5	450
120W	5IK120A-A2F-2P	1Ø110	50	2.0	4.2	5.0	2780	2P	25	250
			60	2.0	4.2	4.3	3220		6	450
150W	5IK150A-SF-2P	1Ø240	50	1.2	5.3	6.1	2720	2P	7	450
180W	5IK180A-C2F-2P	1Ø240	50	1.3	6.5	6.8	2720	2P	8	450
60	60	60	1.1	5.3	5.4	3160				
60	60	60	1.2	6.5	6.0	3160				

General Specifications (Three Phase Motor - 3Ø) :

Output Power (Watt)	Product Code	AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
						Torque (Kg.cm)	RPM	
60W	5IK60A-SF-2P	3Ø220	50	0.32	9.6	2	2780	2P
			60	0.31	9.0	1.7	3220	
90W	5IK60A-S4F-2P	3Ø415	50	0.18	9.6	2	2780	2P
			60	0.17	9.0	1.7	3220	
120W	5IK90A-SF-2P	3Ø220	50	0.70	16	3.6	2780	2P
			60	0.65	12	3.2	3220	
150W	5IK90A-S4F-2P	3Ø415	50	0.4	16	3.6	2780	2P
			60	0.37	12	3.2	3220	
180W	5IK120A-SF-2P	3Ø220	50	1.0	20	4.4	2780	2P
			60	0.94	16	4.1	3220	
180W	5IK120A-S4F-2P	3Ø415	50	0.59	20	4.4	2780	2P
			60	0.55	16	4.1	3220	
180W	5IK150A-SF-2P	3Ø220	50	1.3	23	5	2720	2P
			60	1.2	18	4.2	3160	
180W	5IK150A-S4F-2P	3Ø415	50	0.7	23	5	2720	2P
			60	0.64	18	4.2	3160	
180W	5IK180A-SF-2P	3Ø220	50	1.5	25	5.5	2720	2P
			60	1.3	21	4.9	3160	
180W	5IK180A-S4F-2P	3Ø415	50	0.8	25	5.5	2720	2P
			60	0.7	21	4.9	3160	

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

Single Phase 220V/230V, Dual-voltage motor 3ph220V/380V and 3ph240V/415V available upon request.

Voltage "U" represents Dual-voltage 220V/380V; and "TQ" represents Dual-voltage 240V/415V.

The Reversible Motor is designed for start/stop operations with changes of direction frequently. It is rated at 30 minutes while used in this fashion. It uses a simple damping brake to slow the motor quickly to be able to change direction efficiently. This generates heat when the motor is frequently changing direction which is why all reversible motors are rated for 30 minutes only. (But when large stored torque is required, model with electromagnetic brake should be used).

General Specifications:

Output Power (Watt)	Product Code	AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor		
						Round Shaft	Helical Shaft (For Gearhead)		Torque (Kg.cm)	RPM	Capacity (µF)
6W	2RK6A-A	2RK6GN-A	1Ø110	50	0.28	0.46	0.53	1300	4P	4	250
	2RK6A-C	2RK6GN-C2	1Ø240	50	0.24	0.44	0.4	1600		1.2	450
15W	3RK15A-A	3RK15GN-A	1Ø110	50	0.42	1.06	1.28	1300	4P	6	250
	3RK15A-C2	3RK15GN-C2	1Ø240	50	0.37	1.03	1.03	1600		1.5	450
25W	4RK25A-A	4RK25GN-A	1Ø110	50	0.5	1.37	1.96	1320	4P	8	250
	4RK25A-C2	4RK25GN-C2	1Ø240	50	0.47	1.26	1.55	1620		2	450
40W	5RK40A-A	5RK40GN-A	1Ø110	50	0.91	2.37	3.15	1350	4P	14	250
	5RK40A-C2	5RK40GN-C2	1Ø240	50	0.77	2.27	2.63	1650		3	450
60W	5RK60A-AF	5RK60GN-AF	1Ø110	50	1.21	3.26	4.52	1650	4P	20	250
	5RK60A-C2F	5RK60GN-C2F	1Ø240	50	0.64	3.52	4.59	1350		4	450
90W	5RK90A-AF	5RK90GN-AF	1Ø110	50	1.57	4.73	5.7	1650	4P	24	250
	5RK90A-C2F	5RK90GN-C2F	1Ø240	50	0.88	4.73	6.51	1350		6	450
120W	5RK120A-AF	5RK120GN-AF	1Ø110	50	1.76	6.09	7.67	1650	4P	30	250
	5RK120A-C2F	5RK120GN-C2F	1Ø240	50	1.01	6.72	8.93	1350		7	450
150W	5RK120A-C2F	5RK120GN-C2F	1Ø240	50	1.21	7.2	8.85	1620	4P	8	450

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V available upon request.



COMPACT GEAR MOTOR

K

SERIES

ELECTROMAGNETIC BRAKE MOTOR SINGLE PHASE (1Ø – CAPACITOR RUN) POWER-OFF ACTIVATED TYPE



Electromagnetic Brake motor is ideal for vertical application in which the load must be held. It's a load-holding brake motor with a power off activated type electromagnetic brake, where the motor stops instantaneously when the power is cut off, while still holding the load in position (optimal solution for emergency brakes and vertical load applications).

General Specifications:

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor	
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM		Capacity (µF)	VAC
6W	2IK6A-AB	2IK6GN-AB	1Ø110	50	0.25	0.44	0.45	1300	4P	2.5	250
				60	0.22	0.42	0.38	1600		0.8	450
15W	3IK15A-AB	3IK15GN-AB	1Ø110	50	0.38	1.01	1.22	1300	4P	4	250
	3IK15A-C2B	3IK15GN-C2B	1Ø240	50	0.14	0.41	0.45	1300		1.2	450
25W	4IK25A-AB	4IK25GN-AB	1Ø110	50	0.45	1.3	1.87	1320	4P	6	250
	4IK25A-C2B	4IK25GN-C2B	1Ø240	50	0.23	1.45	1.82	1320		1.5	450
40W	5IK40A-AB	5IK40GN-AB	1Ø110	50	0.83	2.26	3.0	1350	4P	10	250
	5IK40A-C2B	5IK40GN-C2B	1Ø240	50	0.4	2.17	3.4	1350		2.5	450
60W	5IK60A-AFB	5IK60GN-AFB	1Ø110	50	1.18	3.35	4.37	1350	4P	16	250
	5IK60A-C2FB	5IK60GN-C2FB	1Ø240	50	0.58	3.35	4.37	1350		3.5	450
90W	5IK90A-AFB	5IK90GN-AFB	1Ø110	50	1.58	4.5	6.2	1350	4P	20	250
	5IK90A-C2FB	5IK90GN-C2FB	1Ø240	50	0.80	4.5	6.2	1350		5.5	450
120W	5IK120A-AFB	5IK120GN-AFB	1Ø110	50	1.85	6.7	8.5	1350	4P	25	250
	5IK120A-C2FB	5IK120GN-C2FB	1Ø240	50	0.98	6.4	8.5	1350		6	450
150W	5IK150A-C2FB	5IK150GN-C2FB	1Ø240	50	1.20	7.0	9.94	1320	4P	7	450
180W	5IK180A-C2FB	5IK180GN-C2FB	1Ø240	50	1.30	7.8	11.3	1320	4P	8	450
				60	1.23	7.1	9.25	1620			

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V Available upon request.



COMPACT GEAR MOTOR

K

SERIES

ELECTROMAGNETIC BRAKE MOTOR THREE PHASE (3Ø) POWER-OFF ACTIVATED TYPE



Features:

- DC Electromagnetic Brake with built in Rectifier (Input voltage AC220V)
- Brake Precision – The electromagnetic brake controls the rotation within 2-3 turns, making it suitable for forward/reverse operation
- Ideal for low frequency of braking operation (Maximum 6 cycles of start/stop per minute)
- Variable Speed Brake Motor and Asynchronous Brake Motor configurations available.

General Specifications:	Electromagnetic Brake		Motor Rating	
	6W-25W	40W-180W		
	Static friction torque (kgcm)	5.1	10.2	
	Rated voltage (DC-V)	24	24	
	Input voltage (Rectifier)	220V	220V	
	Capacity (Watt)	4W	7W	
Movement (Start/Stop Operation)		Max: 6 cycles per minute with a 1-2 second pause period		

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM	
25W	4IK25A-SB	4IK25GN-SB	3Ø220	50	0.23	3.0	2.06	1320	4P
	4IK25A-S4B	4IK25GN-S4B	3Ø415	60	0.21	2.6	1.63	1620	
40W	5IK40A-SB	5IK40GN-SB	3Ø220	50	0.36	4.7	3.17	1350	4P
	5IK40A-S4B	5IK40GN-S4B	3Ø415	60	0.33	4.2	2.8	1650	
60W	5IK60A-SFB	5IK60GN-SFB	3Ø220	50	0.5	7.4	4.9	1350	4P
	5IK60A-S4FB	5IK60GN-S4FB	3Ø415	60	0.45	6.4	4.0	1650	
90W	5IK90A-SFB	5IK90GN-SFB	3Ø220	50	0.65	9.7	6.5	1350	4P
	5IK90A-S4FB	5IK90GN-S4FB	3Ø415	60	0.60	8.4	5.3	1650	
120W	5IK120A-SFB	5IK120GN-SFB	3Ø220	50	0.37	9.7	6.5	1350	4P
	5IK120A-S4FB	5IK120GN-S4FB	3Ø415	60	0.34	8.4	5.3	1650	
150W	5IK150A-SFB	5IK150GN-SFB	3Ø220	50	0.43	11.5	8.95	1350	4P
	5IK150A-S4FB	5IK150GN-S4FB	3Ø415	60	0.50	12.8	10.7	1320	
180W	5IK180A-SFB	5IK180GN-SFB	3Ø220	50	1.10	13.4	12.3	1320	4P
	5IK180A-S4FB	5IK180GN-S4FB	3Ø415	60	1.05	10.8	10.1	1620	

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Dual-voltage motor 3ph220V/380V and 3ph240V/415V available upon request.
Voltage "U" represents Dual-voltage 220V/380V; and "TQ" represents Dual-voltage 240V/415V.



COMPACT GEAR MOTOR

K

SERIES

REVERSIBLE ELECTROMAGNETIC BRAKE MOTOR SINGLE PHASE (1Ø – CAPACITOR RUN) POWER-OFF ACTIVATED TYPE



The Reversible Electromagnetic Brake Motor is designed for start/stop operations with changes of direction frequently. It uses a simple damping brake in addition to the electromagnetic brake to slow the motor more quickly to be able to change direction efficiently. This generates heat when the motor is frequently changing direction which is why all reversible electromagnetic brake motors are rated for 30 minutes only.

General Specifications:

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor	
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM		Capacity (μF)	VAC
6W	2RK6A-AB	2RK6GN-AB	1Ø110	50	0.28	0.46	0.53	1300	4P	4	250
	2RK6A-C2	2RK6GN-C2B	1Ø240	50	0.15	0.43	0.47	1300		1.2	450
15W	3RK15A-AB	3RK15GN-AB	1Ø110	50	0.42	1.06	1.28	1300	4P	6	250
	3RK15A-C2B	3RK15GN-C2B	1Ø240	50	0.22	0.92	1.28	1300		1.5	450
25W	4RK25A-AB	4RK25GN-AB	1Ø110	50	0.5	1.37	1.96	1320	4P	8	250
	4RK25A-C2B	4RK25GN-C2B	1Ø240	50	0.25	1.52	1.91	1320		2	450
40W	5RK40A-AB	5RK40GN-AB	1Ø110	50	0.91	2.37	3.15	1350	4P	14	250
	5RK40A-C2B	5RK40GN-C2B	1Ø240	50	0.44	2.28	3.57	1350		3	450
60W	5RK60A-AFB	5RK60GN-AFB	1Ø110	50	1.30	3.52	4.59	1350	4P	20	250
	5RK60A-C2FB	5RK60GN-CFB	1Ø240	50	0.64	3.46	4.59	1350		4	450
90W	5RK90A-AFB	5RK90GN-AFB	1Ø110	50	1.74	4.73	6.51	1350	4P	24	250
	5RK90A-C2FB	5RK90GN-C2FB	1Ø240	50	0.88	4.73	6.51	1350		6	450
120W	5RK120A-AFB	5RK120GN-AFB	1Ø110	50	2.04	7.04	8.93	1350	4P	30	250
	5RK120A-C2FB	5RK120GN-C2FB	1Ø240	50	1.01	6.72	8.93	1350		7	450
150W	5RK150A-C2FB	5RK150GN-C2FB	1Ø240	50	1.10	7.8	9.94	1320	4P	8	450
			60	1.04	7.2	8.65	1620				

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V Available upon request.

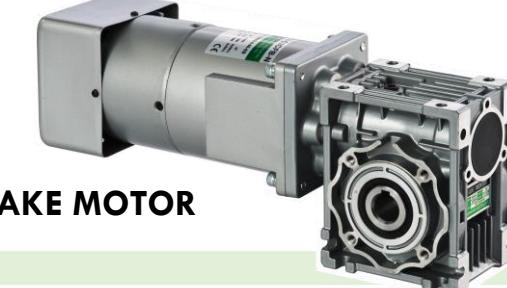


COMPACT GEAR MOTOR

K

SERIES

REVERSIBLE ELECTROMAGNETIC BRAKE MOTOR THREE PHASE (3Ø) POWER-OFF ACTIVATED TYPE



Features:

- DC Electromagnetic Brake with built in Rectifier (Input voltage AC220V)
- Brake Precision – The electromagnetic brake controls the rotation within 2-3 turns, making it suitable for forward/reverse operation
- Ideal for low frequency of braking operation (Maximum 6 cycles of start/stop per minute)
- Variable Speed Brake Motor and Asynchronous Brake Motor configurations available.

General Specifications:	Electromagnetic Brake		Motor Rating	
	Static friction torque (kgcm)		6W-25W	40W-180W
	Rated voltage (DC-V)		5.1	10.2
	Input voltage (Rectifier)		24	24
	Capacity (Watt)		220V	220V
	Movement (Start/Stop Operation)		4W	7W
Max: 6 cycles per minute with a 1-2 second pause period				

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
	Round Shaft	Helical Shaft (For Gearhead)					Torque (Kg.cm)	RPM	
25W	4RK25A-SB	4RK25GN-SB	3Ø220	50	0.24	2.82	1.96	1300	4P
	4RK25A-S4B	4RK25GN-S4B		60	0.22	2.44	1.55	1600	
40W	5RK40A-SB	5RK40GN-SB	3Ø220	50	0.15	2.44	1.66	1300	4P
	5RK40A-S4B	5RK40GN-S4B		60	0.14	1.88	1.39	1600	
60W	5RK60A-SFB	5RK60GN-SFB	3Ø220	50	0.38	4.42	3.01	1320	4P
	5RK60A-S4FB	5RK60GN-S4FB		60	0.35	3.95	2.66	1620	
90W	5RK90A-SFB	5RK90GN-SFB	3Ø220	50	0.22	4.23	2.85	1320	4P
	5RK90A-S4FB	5RK90GN-S4FB		60	0.20	4.04	2.76	1620	
120W	5RK120A-SFB	5RK120GN-SFB	3Ø220	50	0.61	6.96	4.66	1350	4P
	5RK120A-S4FB	5RK120GN-S4FB		60	0.55	6.02	3.80	1650	
150W	5RK150A-SFB	5RK150GN-SFB	3Ø220	50	0.46	9.12	6.18	1350	4P
	5RK150A-S4FB	5RK150GN-S4FB		60	0.44	8.93	7.13	1620	

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V, Dual-voltage motor 3ph220V/380V and 3ph240V/415V available upon request.
Voltage "U" represents Dual-voltage 220V/380V; and "TQ" represents Dual-voltage 240V/415V.



COMPACT GEAR MOTOR

K

SERIES

CLUTCH & BRAKE MOTOR

SINGLE PHASE (1Ø – CAPACITOR RUN)

FREQUENT START-STOP OPERATION



COMPACT GEAR MOTOR

K

SERIES

CLUTCH & BRAKE MOTOR

THREE PHASE (3Ø)

FREQUENT START-STOP OPERATION



The DC 24V Clutch and Brake motor use a high precision, highly responsive clutch & brake for frequent start/stop operation. When the brake is in use, the clutch will separate the link from the brake, so there are no overruns, making positioning precise and accurate.

Features:

- Variable Speed Clutch and Brake Motor and Asynchronous Clutch and Brake Motor configurations available.

Clutch & Brake Models	GN –CB Type		GU-CB Type	
	Brake	Clutch	Brake	Clutch
Static friction torque (kg.cm)	25	20	35	30
Rated voltage (DC-V)	24	24	24	24
Capacity (Watt)	5	6	5.76	6.72
Movement (Start/Stop Operation)	Max: 60-80 cycle per minute*			

Clutch & Brake Models	GN –CB Type		GU-CB Type	
	Brake	Clutch	Brake	Clutch
Static friction torque (kg.cm)	25	20	35	30
Rated voltage (DC-V)	24	24	24	24
Capacity (Watt)	5	6	5.76	6.72
Movement (Start/Stop Operation)	Max: 60-80 cycles per minute*			

General Specifications:

Output Power (Watt)	Product Code	AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)	Capacitor	
						Torque (Kg.cm)	RPM		Capacity (μF)	VAC
40W	5IK40GB-A	1Ø110	50	0.83	2.26	3.0	1350	4P	10	250
			60	0.7	2.16	2.5	1650		2.5	450
60W	5IK60GB-C2	1Ø240	50	0.4	2.17	3.4	1350	4P	16	250
			60	0.37	2.15	2.84	1650		3.5	450
90W	5IK90GB-AF	1Ø110	50	1.18	3.35	4.37	1350	4P	20	250
			60	1.1	3.1	4.3	1650		5.5	450
120W	5IK120GB-C2F	1Ø240	50	0.58	3.35	4.37	1350	4P	25	250
			60	0.5	3.1	4.3	1650		6	450
150W	5IK150GB-C2F	1Ø240	50	1.20	7.0	9.94	1320	4P	7	450
			60	1.12	6.4	8.65	1620		8	450
180W	5IK180GB-C2F	1Ø240	50	1.30	7.8	11.3	1320	4P	8	450
		60	1.23	7.1	9.25	1620				

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V Available upon request.

General Specifications:

Output Power (Watt)	Product Code	AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
						Helical Shaft (For Gearhead)	Torque (Kg.cm)	
40W	5IK40GB-S	3Ø220	50	0.36	4.7	3.17	1350	4P
	5IK40GB-S4	3Ø415	60	0.33	4.2	2.8	1650	
60W	5IK60GB-SF	3Ø220	50	0.5	7.4	4.9	1350	4P
	5IK60GB-S4F	3Ø415	60	0.45	6.4	4.0	1650	
90W	5IK90GB-SF	3Ø220	50	0.65	9.7	6.5	1350	4P
	5IK90GB-S4F	3Ø415	60	0.60	8.4	5.3	1650	
120W	5IK120GB-SF	3Ø220	50	0.75	11.5	8.95	1350	4P
	5IK120GB-S4F	3Ø415	60	0.72	9.5	7.5	1650	
150W	5IK150GB-SF	3Ø220	50	0.95	12.8	10.7	1320	4P
	5IK150GB-S4F	3Ø415	60	0.88	10.2	9.5	1620	
180W	5IK180GB-SF	3Ø220	50	1.10	13.4	12.3	1320	4P
	5IK180GB-S4F	3Ø415	60	1.05	10.8	10.1	1620	

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Dual-voltage motor 3ph220V/380V and 3ph240V/415V available upon request.
Voltage "U" represents Dual-voltage 220V/380V; and "TQ" represents Dual-voltage 240V/415V.



COMPACT GEAR MOTOR

K
SERIES

VARIABLE SPEED MOTOR WITH ANALOGUE TYPE SPEED CONTROLLER – SINGLE PHASE



Variable Speed Motor uses an Induction Motor with a modular tacho-generator fitted to the rear of the motor. The tacho-generator is made of a magnet connected directly to the motor shaft and a stator coil that detects the magnetic poles, and generates an AC voltage at 12 cycles per revolution. The motor can run in either forward or reverse directions. It has independent powerful cooling fan to cool down motor in order to achieve longer lifespan.

General Specifications:

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Number of Pole (P)	Rated Speed (rpm)	Permissible Torque		Starting Torque (Kg.cm)	Capacitor	
	Round Shaft	Helical Shaft						1200rpm	90rpm		Capacitor (μF)	VAC
6W	2IK6RA-A2	2IK6RGN-A2	1Ø110	50	0.25	4P	90 ~ 1300	0.46	0.25	0.33	2.5	250
				60			90 ~ 1600					
	2IK6RA-C2	2IK6RGN-C2	1Ø240	50	0.13		90 ~ 1300			0.33	0.8	450
				60			90 ~ 1600					
15W	3IK15RA-A2	3IK15RGN-A2	1Ø110	50	0.38	4P	90 ~ 1300	1.22	0.42	0.55	4.0	250
				60			90 ~ 1600					
	3IK15RA-C2	3IK15RGN-C2	1Ø240	50	0.19		90 ~ 1300			0.55	1.2	450
				60			90 ~ 1600					
25W	4IK25RA-A2	4IK25RGN-A2	1Ø110	50	0.43	4P	90 ~ 1320	1.76	0.45	1.20	6.0	250
				60			90 ~ 1620	1.40	0.45			
	4IK25RA-C2	4IK25RGN-C2	1Ø240	50	0.2		90 ~ 1320	1.76	0.45	1.20	1.5	450
				60			90 ~ 1620	1.40	0.45			
40W	5IK40RA-A2	5IK40RGN-A2	1Ø110	50	0.8	4P	90 ~ 1350	2.80	0.55	1.90	10	250
				60			90 ~ 1650	2.20	0.55			
	5IK40RA-C2	5IK40RGN-C2	1Ø240	50	0.4		90 ~ 1350	2.80	0.55	1.90	2.5	450
				60			90 ~ 1650	2.20	0.55			
60W	5IK60RA-A2F	5IK60RGN-A2F	1Ø110	50	1.2	4P	90 ~ 1350	5.00	0.70	3.00	16	250
				60			90 ~ 1650	4.20	0.70			
	5IK60RA-C2F	5IK60RGN-C2F	1Ø240	50	0.6		90 ~ 1350	5.00	0.70	3.00	3.5	450
				60			90 ~ 1650	4.20	0.70			
90W	5IK90RA-A2F	5IK90RGN-A2F	1Ø110	50	1.58	4P	90 ~ 1350	6.60	0.86	4.50	20	250
				60			90 ~ 1650	5.30	0.86			
	5IK90RA-C2F	5IK90RGN-C2F	1Ø240	50	0.8		90 ~ 1350	6.60	0.86	4.50	5.5	450
				60			90 ~ 1650	5.30	0.86			
120W	5IK120RA-A2F	5IK120RGN-A2F	1Ø110	50	2.1	4P	90 ~ 1350	7.50	0.97	5.50	25	250
				60			90 ~ 1650	6.50	0.97			
	5IK120RA-C2F	5IK120RGN-C2F	1Ø240	50	1.07		90 ~ 1350	8.10	0.97	5.50	6.0	450
				60			90 ~ 1650	7.40	0.97			
150W	5IK150RA-C2F	5IK150RGN-C2F	1Ø240	50	1.2	4P	90 ~ 1320	9.10	1.08	6.40	7.0	450
180W	5IK180RA-C2F	5IK180RGN-C2F	1Ø240	50	1.3	4P	90 ~ 1320	11.0	1.20	7.20	8.0	450
				60			90 ~ 1620	9.2	1.20			

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.
Single Phase 220V/230V available upon request.



COMPACT GEAR MOTOR

K
SERIES

ASYNCHRONOUS MOTOR WITH LED DIGITAL DISPLAY IGBT INVERTER – SINGLE PHASE



Asynchronous Motor a.k.a. Inverter Duty Motor is designed for optimized performance to run with variable frequency drive. It offers longer product lifespan, consistent performance, and less vibration operation.

Features:

- The package include a 3phase motor operated by 1phase IGBT inverter with LED High Brightness Display.
- 120% | 150% Overload Protection with wide speed control range from 0-400Hz by operation panel or speed potentiometer.
- Spec-Key button on the panel allows preset of 2 different speeds, forward/reverse operation instantly.
- Acceleration and deceleration control enables soft-start and soft-stop operation. Setting of upper and lower speed limits, and counter function.
- Compatible mounting with conventional USM Type speed controller.
- Instantaneous reversal, electromagnetic brake, clutch & brake options available.

General Specifications (4 Pole Motor):

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
	Round Shaft	Helical Shaft					Torque (Kg.cm)	Rated Speed (RPM)	
25W	4IK25VA-S	4IK25VGN-S	3Ø220	50	0.23	3.0	2.06	90 ~ 1350	4P
				60	0.21	2.6	1.63	90 ~ 1650	
40W	5IK40VA-S	5IK40VGN-S	3Ø220	50	0.36	4.7	3.17	90 ~ 1350	4P
				60	0.33	4.2	2.8	90 ~ 1650	
60W	5IK60VA-SF	5IK60VGN-SF	3Ø220	50	0.5	7.4	4.9	90 ~ 1400	4P
				60	0.45	6.4	4.5	90 ~ 1700	
90W	5IK90VA-SF	5IK90VGN-SF	3Ø220	50	0.65	9.7	6.5	90 ~ 1400	4P
				60	0.6	8.4	5.3	90 ~ 1700	
120W	5IK120VA-SF	5IK120VGN-SF	3Ø220	50	0.75	11.5	8.95	90 ~ 1400	4P
				60	0.72	9.5	7.5	90 ~ 1700	
150W	5IK150VA-SF	5IK150VGN-SF	3Ø220	50	0.95	12.8	10.7	90 ~ 1380	4P
				60	0.88	10.2	9.5	90 ~ 1680	
180W	5IK180VA-SF	5IK180VGN-SF	3Ø220	50	1.04	13.4	12.3	90 ~ 1350	4P
				60	1.00	10.8	10.1	90 ~ 1750	
200W	6IK200VA-SF	6IK200VGN-SF	3Ø220	50	1.00	18.5	15.7	90 ~ 1400	4P
				60	0.83	15.9	13.8	90 ~ 1700	
250W	6IK250VA-SF	6IK250VGN-SF	3Ø220	50	1.13	21.6	17.3	90 ~ 1400	4P
				60	1.01	19.2	15.7	90 ~ 1700	

General Specifications (2 Pole Motor):

Output Power (Watt)	Product Code		AC Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (Kg.cm)	Rated		Number of Pole (P)
Round Shaft		Torque (Kg.cm)	Rated Speed (RPM)						



COMPACT INVERTER

IGBT

SERIES

1PHASE INVERTER
WITH 150% OVERLOAD PROTECTION



COMPACT INVERTER

IGBT

SERIES

1PHASE INVERTER
WITH 150% OVERLOAD PROTECTION



MODEL NO	IGBT - K100	IGBT - K200
Motor Rating (maximum)	25W ~ 120W (1/6HP)	25W ~ 250W (1/3 HP)
Rated Output Capacity	0.4kVA	0.6kVA
Rated Output Current	1 Amp	1.5 Amp
Rated Output Voltage	AC 3 Phase 220V (3Ø220V)	
Range of Output Frequency	0.1Hz ~ 400Hz	
Power Source Voltage	AC 1 Phase 200V~240V (1Ø), 50Hz/60Hz	
Input Current	2 Amp	3 Amp
Permissible AC Power Source Fluctuation	200V ~ 240V, 50Hz/60Hz, ± 5%	
Overload Protection	120% 150% of rated output current for 1 minute	
Cooling Method	Self-cooling	
Protection Level	IP20	
Dimension	Body 52 x 127 x 60mm • Mounting Frame: 60 x 100 x 3mm	
Weight	0.4KG	
Options	With Braking Transistor / Without Braking Transistor	
Remark	Product dimension and mounting compatible with US Type Speed Controller (USM71-USM72 / US71-US72)	

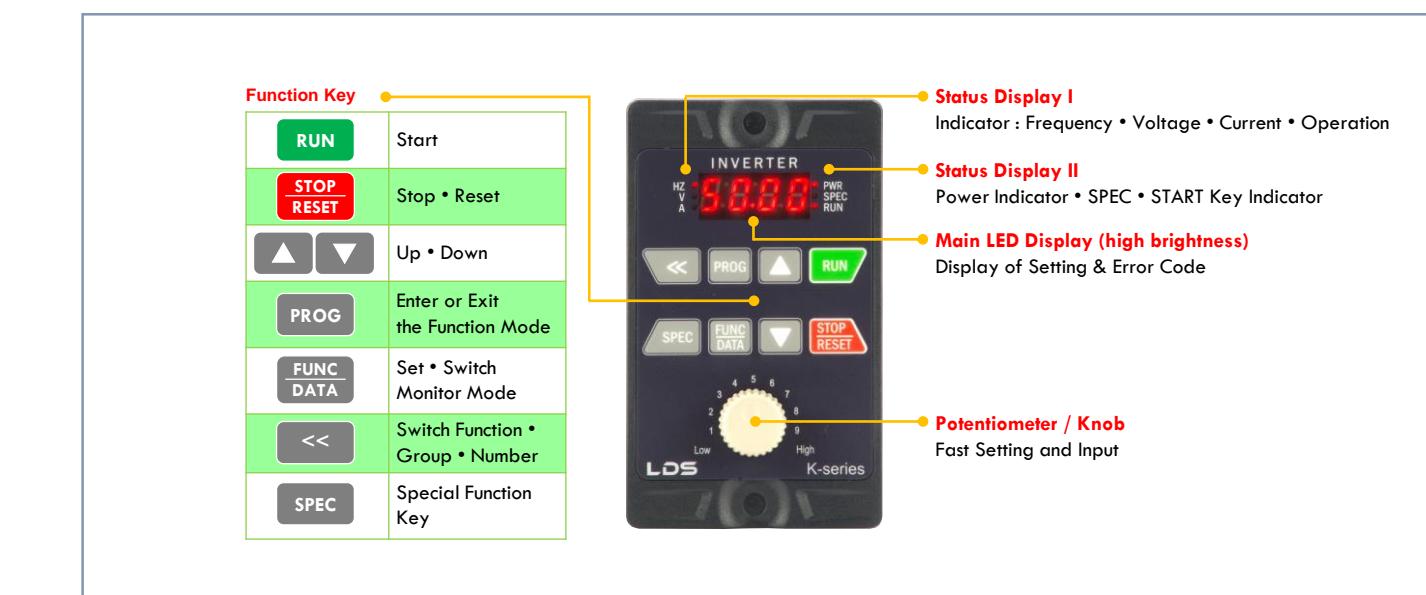
GENERAL SPECIFICATIONS / CONTROL CHARACTERISTICS

Control Method:	Voltage vector sinusoidal PWM control (V/F control) Switching frequency : 800~16kHz	Other Functions:	Automatic operation for energy-saving • Automatic torque compensation • Automatic adjustment for output voltage stability • Automatic adjustment of switching frequency • Slip compensation / Counter function • Restart after instantaneous power failure • Modbus (RS-485) communication • Over-torque detection • Jump frequency • Setting for upper and lower limits of output frequency • 8-preset speeds • S-curve acceleration & deceleration • Temperature management • Parameters duplication
Frequency Range:	0.1Hz ~ 400.00Hz	Frequency Setting Signal:	Operation panel (including KP-601A keypad): ▲▼ Analogue Signal: (DC 0 ~ 10V) / 0~100% Digital Signal: Jog speed, 8-preset speeds Modbus (RS485) Communication
Resolution:	Digital Command : 0.01Hz • Analogue Command: 0.06Hz / 60Hz	Operation Signal:	Operation panel (including KP-601A keypad): RUN / STOP • Digital Signal: FWD (forward) / REV (reverse) rotation control • Modbus (RS-485) communication
Overload Protection:	150% of rated output current for 1 minute	Multi-Function Inputs:	3 programmable input terminal: X1~X3 • Response time (1~255, unit 1ms) • Refer to the F5.19~F5.21 functions setting description.
DC Braking:	Start/Stop Braking Time: 0 ~ 60.0 second • Stop Braking Frequency : 0.1Hz ~ 60Hz • Braking Ability: 0~150% of rated current	Analogue Inputs:	1 set of analogue input: VI (DC 0 ~ 10V) • Analogue filter (0~255, unit 5ms), the dead band of analogue frequency, gain and bias are adjustable
Braking Torque:	Approximately 20%		
V/F Pattern:	Linear, Energy-Saving mode (automatic adjusting V/F pattern according to the load condition) • Square of 1.5, 1/7 and 2 curves. • V/F pattern (2 V/F points) • Output voltage adjustment of V/F pattern • (Variable voltage adjustment of V/F pattern for acceleration and deceleration).		

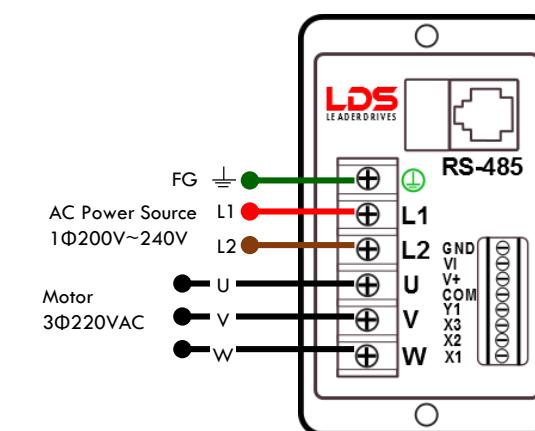
The compact IGBT inverter is especially advantageous for standard application by virtue of its user friendliness. It offers simple and safe operability, energy saving, compact design as well as superior performance. The inverter is used in numerous applications such as conveyor drives, feeders, machining tool and door drives. It is compatible with Unit Type AC Speed Controller (US series).

Features:

- 120% | 150% Overload Protection.
- Wide speed control range from 0~400Hz by operation panel or speed potentiometer.
- Spec-Key button on panel allows switch of 2 different speeds, forward/reverse operation instantly.
- Acceleration and Deceleration control enables soft-start and soft-stop operation.
- Setting of upper and lower speed limits, DC braking, and counter function.
- Compact design enable panel mounting and space saving.



MAIN CONTROL CIRCUIT TERMINALS



PORTABLE KEYPAD



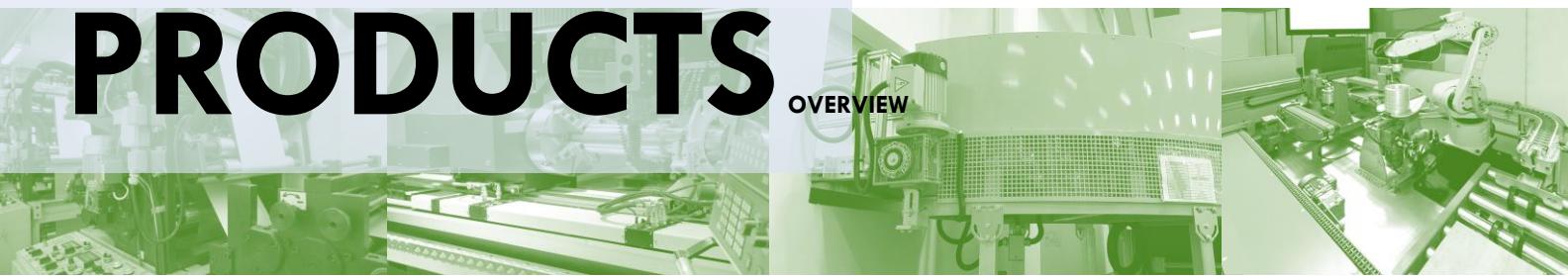
The keypad

- Enable remote control of the inverter via Modbus (RS485) Communication.
- Duplication of parameter from Inverter to Inverter.

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement. Comprehensive Product Manual of the Inverter available upon request.

PRODUCTS

OVERVIEW



COMPACT GEAR MOTOR (6W ~ 180W)

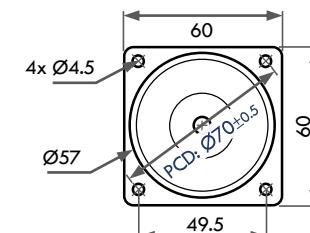
Round-Shaft Electric Motor 2,800 ■ 1,400 ■ 900rpm 6W~200W	Key-Shaft Electric Motor 2,800 ■ 1,400 ■ 900rpm 40W~200W	Induction & Reversible Gear Motor (Capacitor Run) 6W~200W	Induction Gear Motor (with Flange gearhead & Terminal Box)
Compact Gear Motor with Decimal Gearhead Gear Ratio 1/300 ~1/2400	Electro-Magnetic Brake Gear Motor (Brake 220V) 6W~180W	Clutch & Brake Gear Motor (Clutch & Brake DC24V) 40W~180W	Hollow Shaft Spiral Bevel Gear Motor 40W~180W
Variable Speed Gear Motor with Analogue Controller 6W~200W, 1Phase	Variable Speed Motor with Analogue Controller 6W~200W, 1Phase	Compact Gear Motor With Compact IGBT Inverter 25W~200W, 1Phase	Compact Spiral Bevel Gear Motor with Compact IGBT Inverter 40W~180W
Worm Gear Package Gear reduction ratio 5~80 40W~180W	Worm Gear Package with Electromagnetic Brake 40W~180W	Worm Gear Package Gear Reduction Ratio 125~14,400	Variable Speed Gear Motor with Analogue Controller 40W~180W

Remark : Application and technical data are available upon request. More information please log on : www.oriental-dm.com

DIMENSION : COMPACT AC MOTOR

1 MOTOR FRAME DIMENSION FOR ALL 6W MOTOR

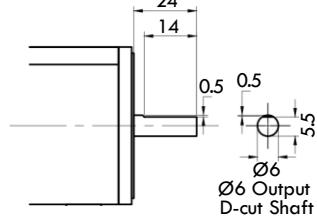
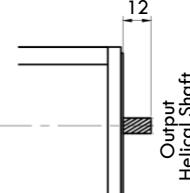
INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
SPEED CONTROL MOTOR



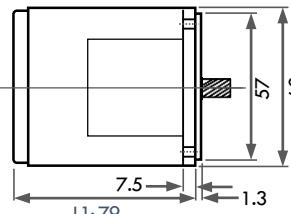
2 MOTOR OUTPUT SHAFT TYPE FOR ALL 6W MOTOR

HELICAL-SHAFT (PINION-SHAFT)
2IK6GN-□
2IK6RGN-□
2RK6GN-□
2RK6RGN-□

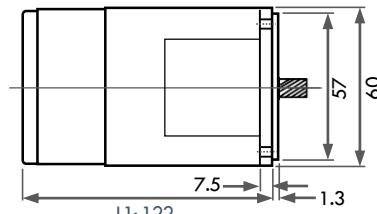
OUTPUT ROUND-SHAFT (D-CUT)
2IK6A-□
2IK6RA-□
2RK6A-□
2RK6RA-□



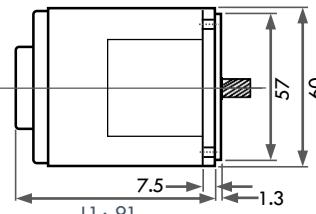
3 INDUCTION MOTOR 6W 2IK6GN-□ REVERSIBLE MOTOR 6W 2RK6GN-□



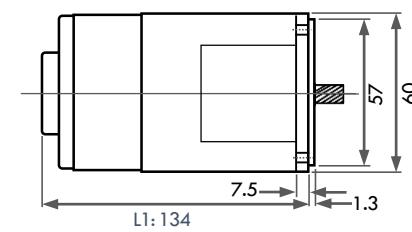
4 ELECTROMAGNETIC BRAKE MOTOR 6W 2IK6GN-□-B REVERSIBLE BRAKE MOTOR 6W 2RK6GN-□-B



5 SPEED CONTROL MOTOR 6W 2IK6RGN-□ REVERSIBLE SPEED CONTROL MOTOR 6W 2RK6RGN-□



6 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 6W 2IK6RGN-□-B REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 6W 2RK6RGN-□-B



NOTE:

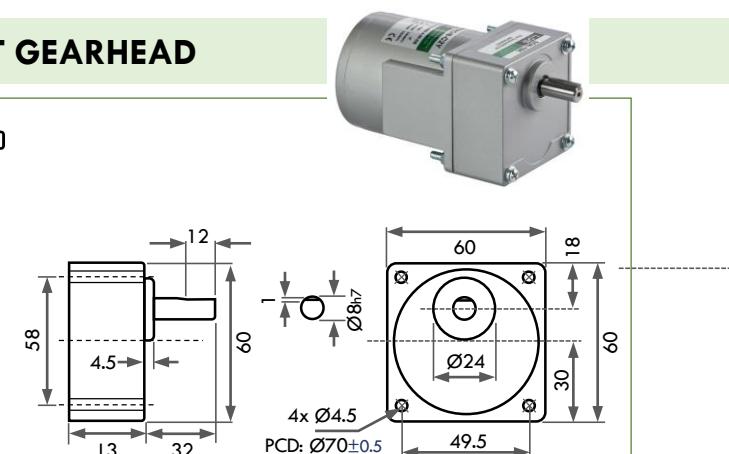
- INPUT VOLTAGE OF ELECTRIC MOTOR
 - A : 1PHASE 100V (50/60HZ)
 - A2 : 1PHASE 110V (50/60HZ)
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

DIMENSION : COMPACT GEARHEAD

7 2GN-K PARALLEL SHAFT GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
2GN5K ~ 2GN18K	5, 6, 7.5, 9, 12.5, 15, 18	30
2GN3K, 2GN25K ~ 2GN75K	3, 25, 30, 36, 50, 60, 75	35
2GN90K ~ 2GN300K	90, 100, 120, 150, 180, 240, 300	41



Gearhead Shaft Size : Ø8mm x 27.5mmL (D-cut)



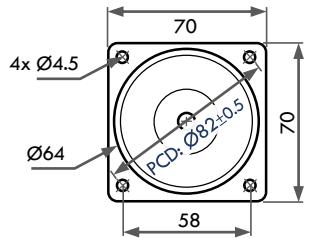
Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

15W

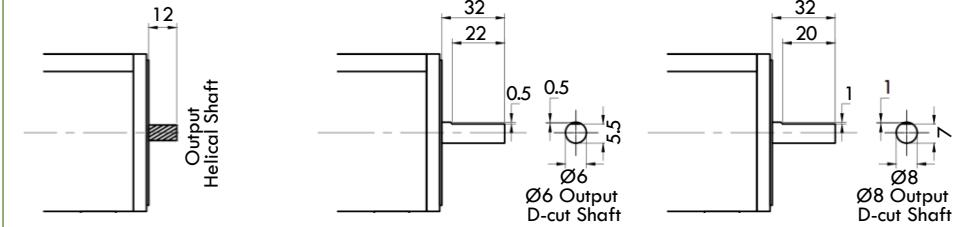
1 MOTOR FRAME DIMENSION FOR ALL 15W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
SPEED CONTROL MOTOR

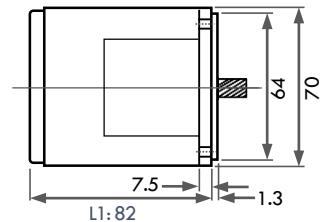


2 MOTOR OUTPUT SHAFT TYPE FOR ALL 15W MOTOR

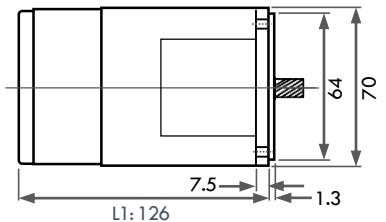
HELICAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT ROUND-SHAFT (D-CUT)
3IK15GN-□	3IK15A-□	3IK15A-□-S8
3IK15RGN-□	3IK15RA-□	3IK15RA-□-S8
3RK15GN-□	3RK15A-□	3RK15A-□-S8
3RK15RGN-□	3RK15RA-□	3RK15RA-□-S8



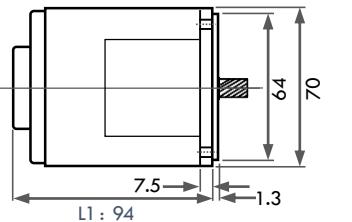
3 INDUCTION MOTOR 15W 3IK15GN-□ REVERSIBLE MOTOR 15W 3RK15GN-□



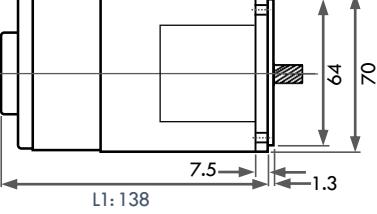
4 ELECTROMAGNETIC BRAKE MOTOR 15W 3IK15GN-□-B REVERSIBLE BRAKE MOTOR 15W 3RK15GN-□-B



5 SPEED CONTROL MOTOR 15W 3IK15RGN-□ REVERSIBLE SPEED CONTROL MOTOR 15W 3RK15RGN-□



6 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 15W 3IK15RGN-□-B REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 15W 3RK15RGN-□-B



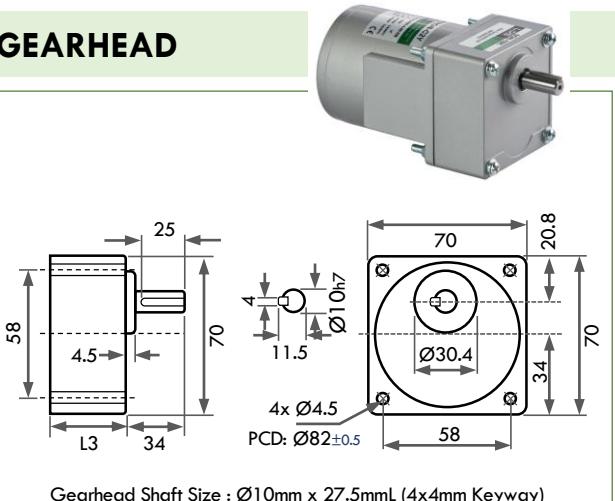
NOTE:
 INPUT VOLTAGE OF ELECTRIC MOTOR
 A : 1PHASE 100V (50/60HZ)
 A2 : 1PHASE 110V (50/60HZ)
 C : 1PHASE 220V (50/60HZ)
 C2 : 1PHASE 240V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

DIMENSION : COMPACT GEARHEAD

7 3GN-K PARALLEL SHAFT GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
3GN5K ~ 3GN18K	5, 6, 7.5, 9, 12.5, 15, 18	31
3GN3K, 3GN25K ~ 3GN75K	3, 25, 30, 36, 50, 60, 75	37
3GN90K ~ 3GN240K	90, 100, 120, 150, 180, 240	43



Unit of measurement : mm (millimeter)

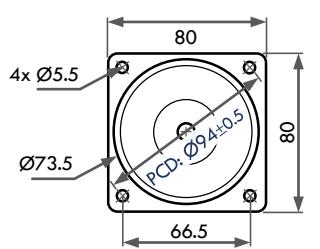


25W

DIMENSION : COMPACT AC MOTOR

1 MOTOR FRAME DIMENSION FOR ALL 25W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
SPEED CONTROL MOTOR

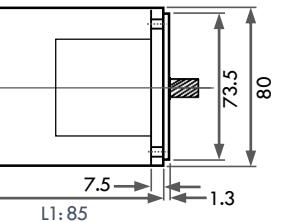


2 MOTOR OUTPUT SHAFT TYPE FOR ALL 25W MOTOR

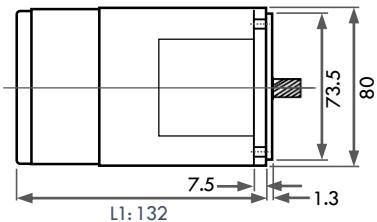
HELICAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)
4IK25GN-□	4IK25A-□
4IK25RGN-□	4IK25RA-□
4IK25VGN-□	4IK25VA-□
4RK25GN-□	4RK25A-□
4RK25RGN-□	4RK25RA-□



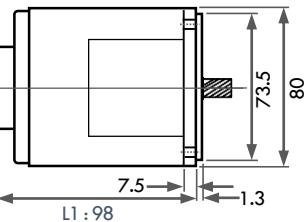
3 INDUCTION MOTOR 25W 4IK25GN-□ / 4IK25VGN-□ REVERSIBLE MOTOR 25W 4RK25GN-□



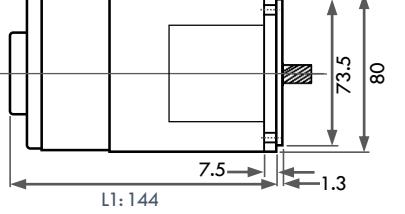
4 ELECTROMAGNETIC BRAKE MOTOR 25W 4IK25GN-□-B / 4IK25VGN-□-B REVERSIBLE BRAKE MOTOR 25W 4RK25GN-□-B



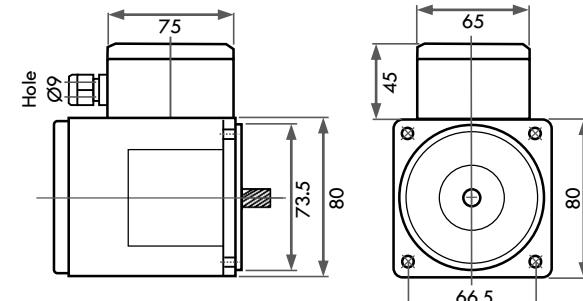
5 SPEED CONTROL MOTOR 25W 4IK25RGN-□ REVERSIBLE SPEED CONTROL MOTOR 25W 4RK25RGN-□



6 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 25W 4IK25RGN-□-B REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 25W 4RK25RGN-□-B



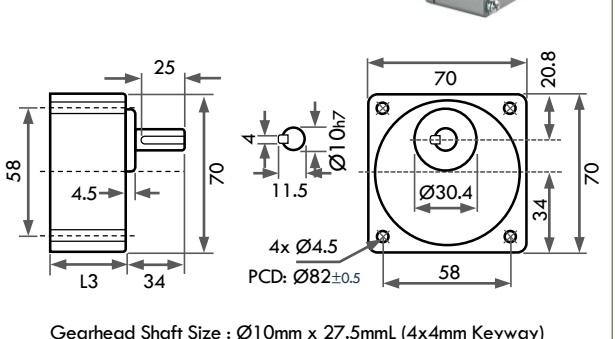
7 MOTOR WITH TERMINAL BOX (IP44)



DIMENSION : COMPACT GEARHEAD

8 4GN-K PARALLEL SHAFT GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
4GN5K ~ 4GN18K	5, 6, 7.5, 9, 12.5, 15, 18	33
4GN3K, 4GN25K ~ 4GN75K	3, 25, 30, 36, 50, 60, 75	40
4GN90K ~ 4GN300K	90, 100, 120, 150, 180, 240, 300	47



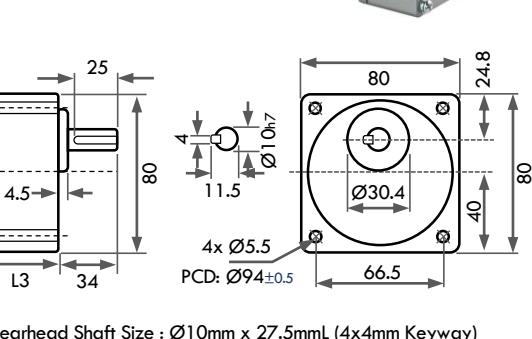
Unit of measurement : mm (millimeter)



DIMENSION : COMPACT GEARHEAD

7 4GN-K PARALLEL SHAFT GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
4GN5K ~ 4GN18K	5, 6, 7.5, 9, 12.5, 15, 18	33
4GN3K, 4GN25K ~ 4GN75K	3, 25, 30, 36, 50, 60, 75	40
4GN90K ~ 4GN300K	90, 100, 120, 150, 180, 240, 300	47



NOTE:
 INPUT VOLTAGE OF ELECTRIC MOTOR
 A : 1PHASE 100V (50/60HZ)
 A2 : 1PHASE 110V (50/60HZ)
 C : 1PHASE 220V (50/60HZ)
 C2 : 1PHASE 240V (50/60HZ)
 S : 3PHASE 220V (50/60HZ)
 S4 : 3PHASE 415V (50/60HZ)
 TQ : 3PHASE 240/415V (50/60HZ)
 U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

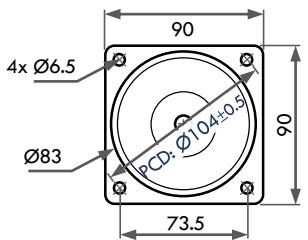
Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

40W

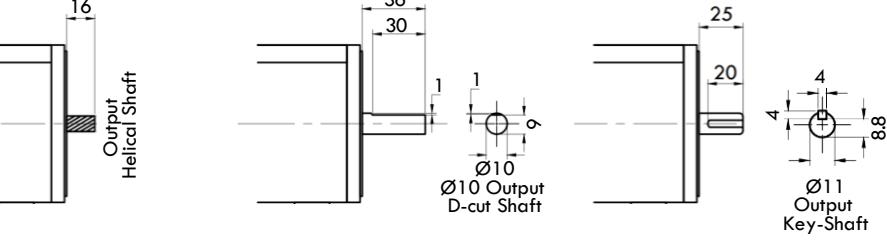
1 MOTOR FRAME DIMENSION FOR ALL 40W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



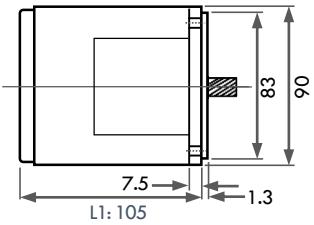
2 MOTOR OUTPUT SHAFT TYPE FOR ALL 40W MOTOR

HORIZONTAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT KEY-SHAFT
5IK40GN/GX-□	5IK40A-□	5IK40A-□-N
5IK40GN/RGX-□	5IK40RA-□	5IK40RA-□-N
5IK40VGN/VGX-□	5IK40VA-□	5IK40VA-□-N
5RK40GN/GX-□	5RK40A-□	5RK40A-□-N
5RK40GN/RGX-□	5RK40RA-□	5RK40RA-□-N



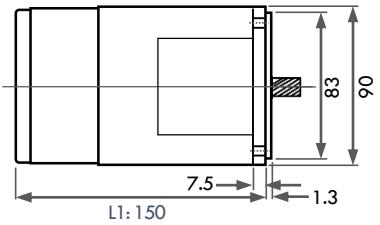
3 INDUCTION / ASYNCHRONOUS MOTOR 40W

5IK40GN-□ / 5IK40VGN-□
REVERSIBLE MOTOR 40W
5RK40GN-□



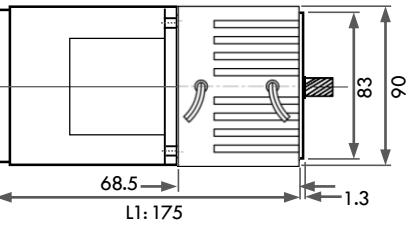
4 ELECTROMAGNETIC BRAKE MOTOR 40W

5IK40GN-□-B / 5IK40VGN-□-B
REVERSIBLE BRAKE MOTOR 40W
5RK40GN-□-B



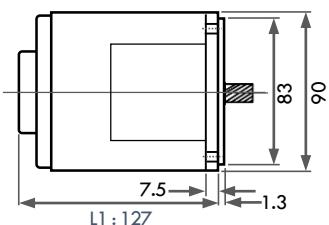
5 ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 40W

5IK40GB-□ & 5GU-CB
5IK40VGB-□ & 5GU-CB



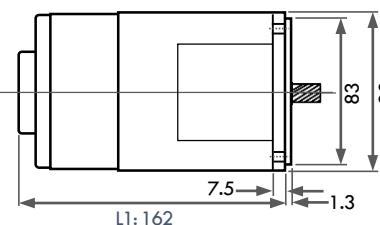
6 SPEED CONTROL MOTOR 40W

5IK40RGN-□
REVERSIBLE SPEED CONTROL MOTOR 40W
5RK40RGN-□



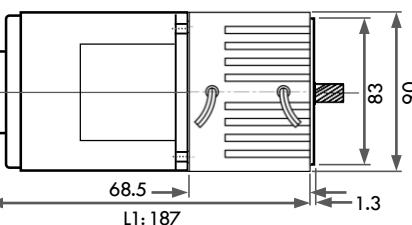
7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 40W

5IK40RGN-□-B
REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 40W
5RK40RGN-□-B



8 SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 40W

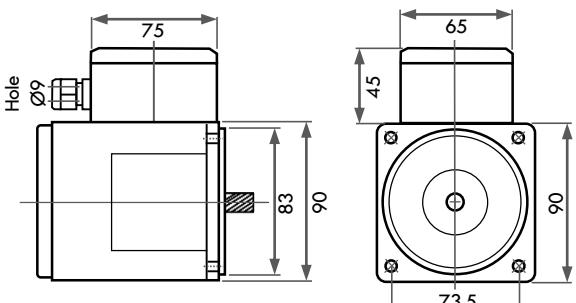
5IK40RGB-□ & 5GU-CB



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

5IK40A-□T 5RK40A-□T
5IK40GN-□T 5RK40GN-□T
5IK40GX-□T 5RK40GX-□T
5IK40GB-□T 5RK40GB-□T
5IK40VGN-□T 5RK40VGN-□T
5IK40RGN-□T 5RK40RGN-□T
5IK40RGX-□T 5RK40RGX-□T
5IK40RGB-□T 5RK40RGB-□T
5IK40GN-□BT 5RK40GN-□BT
5IK40GX-□BT 5RK40GX-□BT
5IK40GB-□BT 5RK40GB-□BT



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - A : 1PHASE 100V (50/60HZ)
 - A2 : 1PHASE 110V (50/60HZ)
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

Unit of measurement : mm (millimeter)

DIMENSION : COMPACT GEARHEAD

40W



MOTOR WITH
PARALLEL SHAFT GEARHEAD
5GN-K



MOTOR WITH DECIMAL GEAR
(DOUBLE REDUCTION GEARHEAD)
5GN10X + 5GU-KB



MOTOR WITH RIGHT ANGLE
WORM GEARHEAD
(DOUBLE REDUCTION GEARHEAD)
5MRV030 (8MRV030)



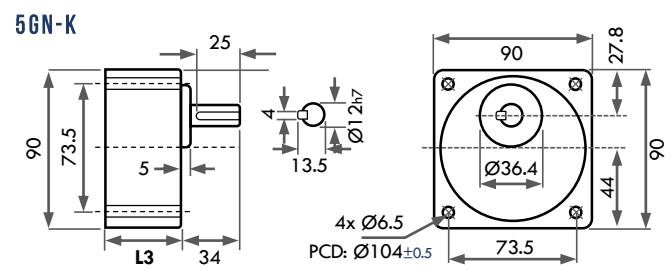
MOTOR WITH WORM GEARHEAD
(DOUBLE REDUCTION GEARHEAD)
5GN-K + 8MRV030



MOTOR WITH RIGHT ANGLE
SPIRAL BEVEL GEARHEAD
5GU-RH

10 5GN-K PARALLEL SHAFT GEARHEAD

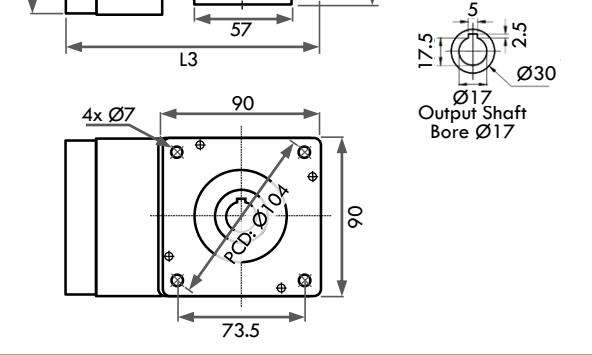
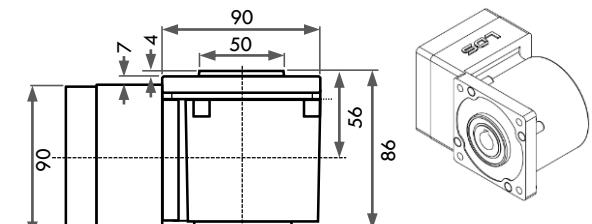
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		L3
5GN3K ~ 5GN18K	3, 5, 6, 7.5, 9, 12.5, 15, 18	43
5GN25K ~ 5GN75K	25, 30, 36, 50, 60, 75	51
5GN90K ~ 5GN240K	90, 100, 120, 150, 180, 240	60
DOUBLE GEARHEAD		L3
5GN30K ~ 5GN75K (COUPLE WITH 5GN10X)	300, 360, 500, 600, 750	104
5GN90K ~ 5GN240K (COUPLE WITH 5GN10X)	900, 1000, 1200, 1500, 1800, 2400	113



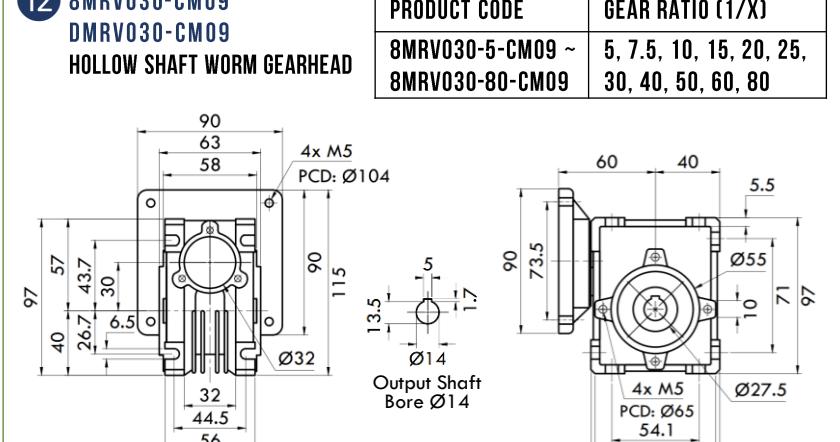
Gearhead Shaft Size : Ø12mm x 29mmL
(4x4mm Keyway)

11 5GU-RH HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

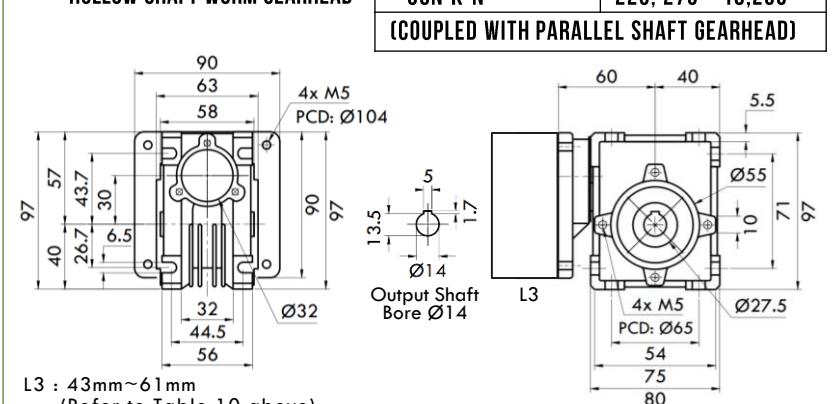
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250 (COUPLED WITH DECIMAL GEAR)	198



12 8MRV030-CM09 DMRV030-CM09 HOLLOW SHAFT WORM GEARHEAD



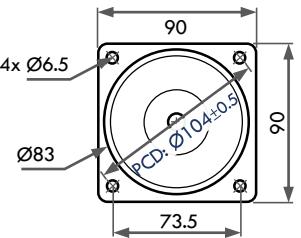
13 8MRV030-CG09 DMRV030-CG09 HOLLOW SHAFT WORM GEARHEAD (COUPLED WITH PARALLEL SHAFT GEARHEAD)



DIMENSION : COMPACT AC MOTOR

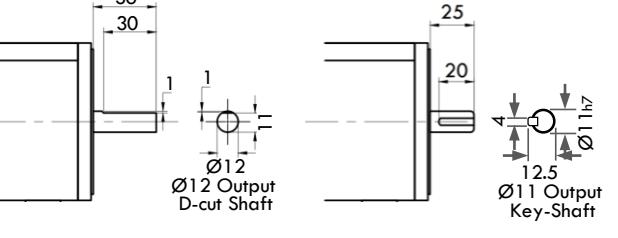
1 MOTOR FRAME DIMENSION FOR ALL 60W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



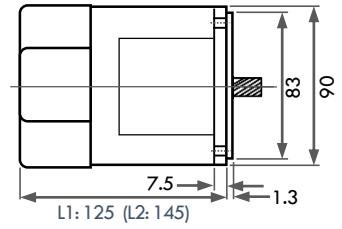
2 MOTOR OUTPUT SHAFT TYPE FOR ALL 60W MOTOR

HORIZONTAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT KEY-SHAFT
5IK60GN/GX-□F	5IK60A-□F	5IK60A-□F-N
5IK60RGN/RGX-□F	5IK60RA-□F	5IK60RA-□F-N
5IK60VGN/VGX-□F	5IK60VA-□F	5IK90VA-□F-N
5RK60GN/GX-□F	5RK60A-□F	5RK60A-□F-N
5RK60RGN/RGX-□F	5RK60RA-□F	5RK60RA-□F-N



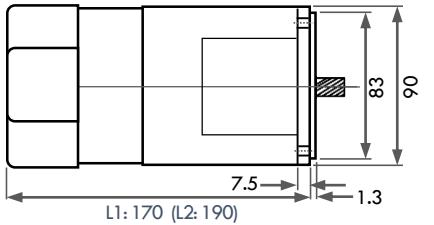
3 INDUCTION / ASYNCHRONOUS MOTOR 60W

5IK60GN-□F / 5IK60VGN-□F
REVERSIBLE MOTOR 60W
5RK60GN-□F



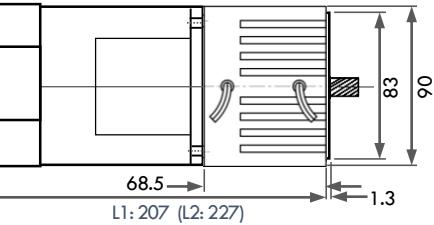
4 ELECTROMAGNETIC BRAKE MOTOR 60W

5IK60GN-□F-B / 5IK60VGN-□F-B
REVERSIBLE BRAKE MOTOR 60W
5RK60GN-□F-B



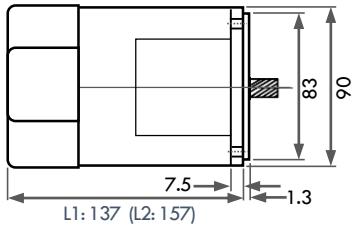
5 ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 60W

5IK60GB-□F & 5GU-CB
5IK60VGB-□F & 5GU-CB



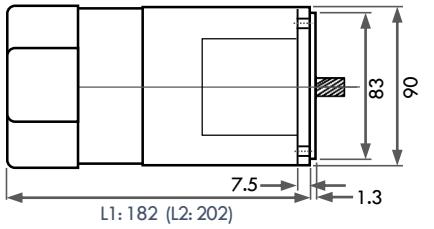
6 SPEED CONTROL MOTOR 60W

5IK60RGN-□F
REVERSIBLE SPEED CONTROL MOTOR 60W
5RK60RGN-□F



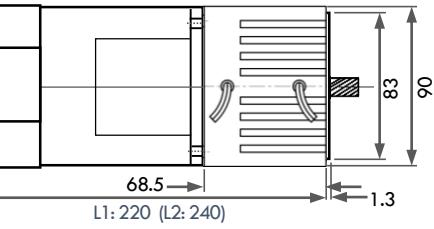
7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 60W

5IK60RGN-□F-B
REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 60W
5RK60RGN-□F-B



8 SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 60W

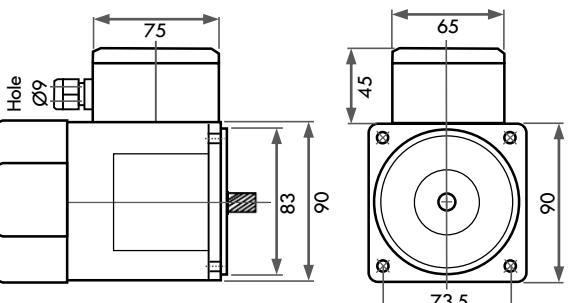
5IK60RGB-□F & 5GU-CB



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

5IK60A-□FT
5IK60GN-□FT
5IK60GX-□FT
5IK60GB-□FT
5IK60VGN-□FT
5IK60RGN-□FT
5IK60RGX-□FT
5IK60RGB-□FT
5IK60GN-□FBT
5IK60GX-□FBT
5IK60GB-□FBT



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - A : 1PHASE 100V (50/60HZ)
 - A2 : 1PHASE 110V (50/60HZ)
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR
L2 : BODY LENGTH OF MOTOR WITH
COACTIVE POWERFUL COOLING FAN (+20)

Unit of measurement : mm (millimeter)

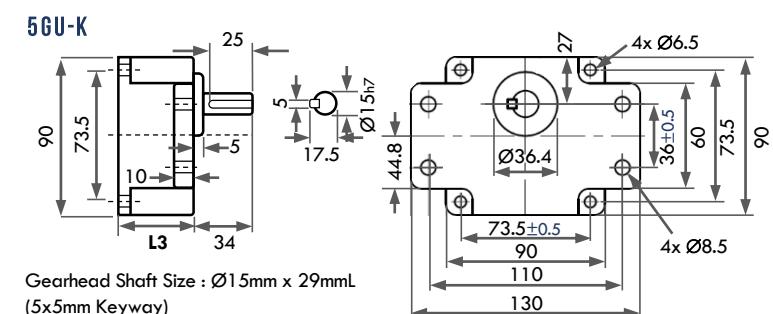
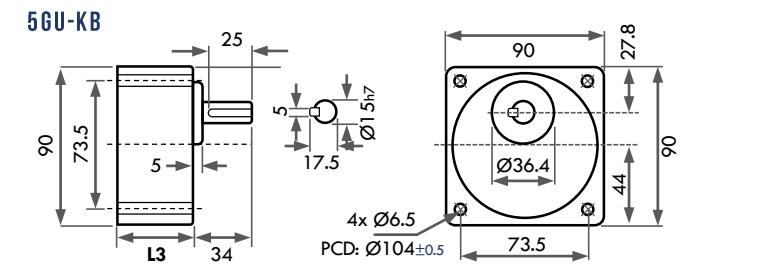
60W

DIMENSION : COMPACT GEARHEAD



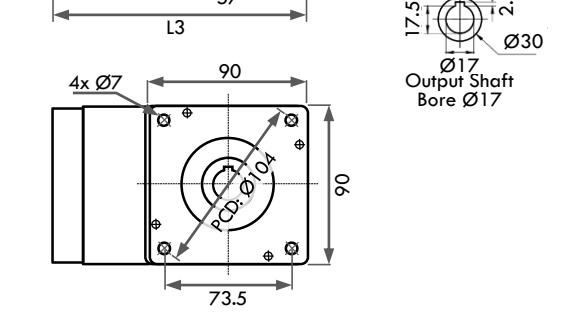
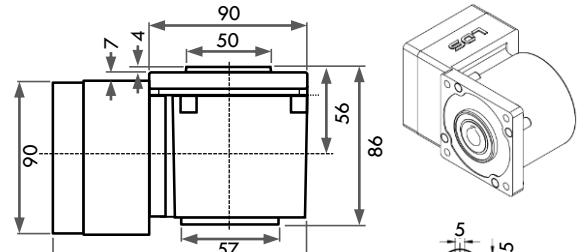
10 5GU-KB PARALLEL SHAFT GEARHEAD (SQUARE GEARBOX) 5GU-K PARALLEL SHAFT GEARHEAD (HINGE TYPE GEARBOX)

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		L3
5GU3KB ~ 5GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	43
5GU25KB ~ 5GU75KB	25, 30, 36, 50, 60, 75	51
5GU90KB ~ 5GU240KB	90, 100, 120, 150, 180, 240	60
5GU3K ~ 5GU75K	3, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75	51
5GU90K ~ 5GU240K	90, 100, 120, 150, 180, 240	60
DOUBLE GEARHEAD		L3
5GU30KB ~ 5GU75KB + (COUPLE WITH 5GU10X)	300, 360, 500, 600, 750	104
5GU90KB ~ 5GU240KB (COUPLE WITH 5GU10X)	900, 1000, 1200, 1500, 1800, 2400	113



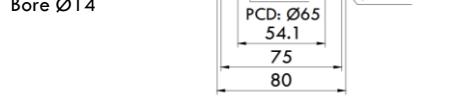
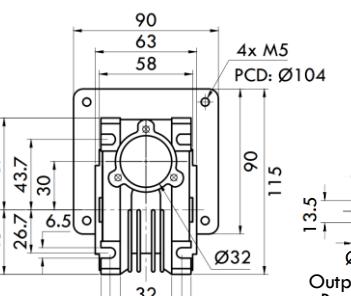
11 5GU-RH HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250 (COUPLED WITH DECIMAL GEAR)	198



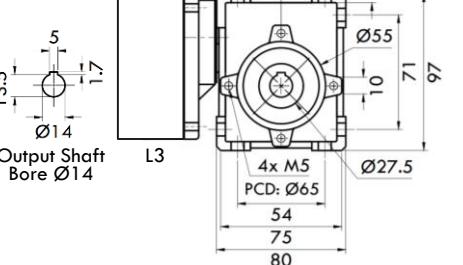
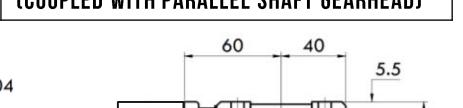
12 8MRV030-CM09 DMRV030-CM09 HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV030-5-CM09 ~	5, 7.5, 10, 15, 20, 25,
8MRV030-80-CM09	30, 40, 50, 60, 80



13 8MRV030-CG09 DMRV030-CG09 HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV030-5-CG09	100, 135, 150, 180, 225, 270 ~ 19,200

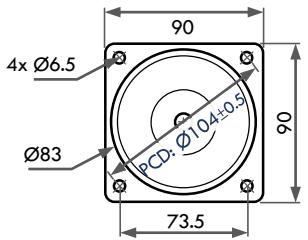


Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

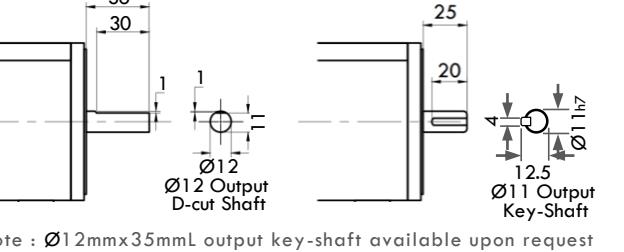
1 MOTOR FRAME DIMENSION FOR ALL 90W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR

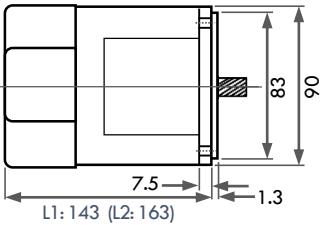


2 MOTOR OUTPUT SHAFT TYPE FOR ALL 90W MOTOR

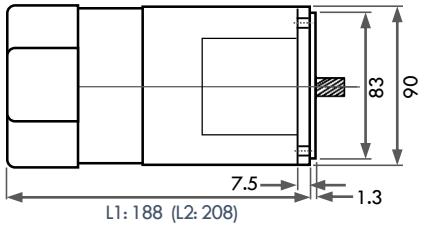
HORIZONTAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT KEY-SHAFT
5IK90GN/GX-□F	5IK90A-□F	5IK90A-□F-N
5IK90RGN/RGX-□F	5IK90RA-□F	5IK90RA-□F-N
5IK90VGN/VGX-□F	5IK90VA-□F	5IK90VA-□F-N
5RK90GN/GX-□F	5RK90A-□F	5RK90A-□F-N
5RK90RGN/RGX-□F	5RK90RA-□F	5RK90RA-□F-N



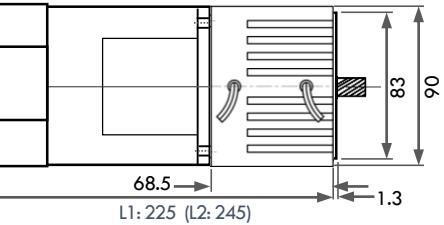
3 INDUCTION / ASYNCHRONOUS MOTOR 90W 5IK90GN-□F / 5IK90VGN-□F REVERSIBLE MOTOR 90W 5RK90GN-□F



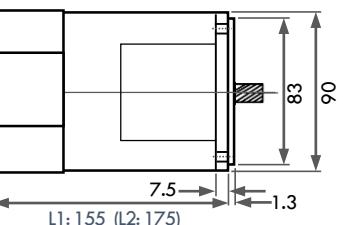
4 ELECTROMAGNETIC BRAKE MOTOR 90W 5IK90GN-□F-B / 5IK90VGN-□F-B REVERSIBLE BRAKE MOTOR 90W 5RK90GN-□F-B



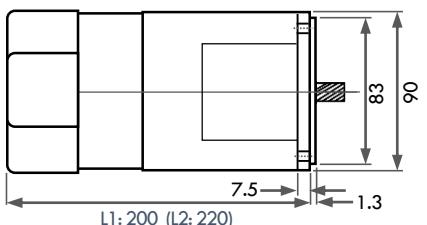
5 ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 90W 5IK90GB-□F & 5GU-CB 5IK90VGB-□F & 5GU-CB



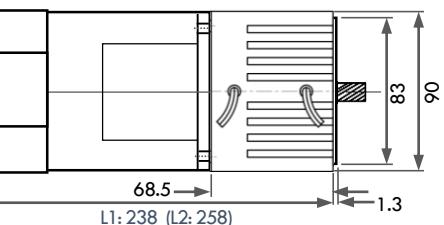
6 SPEED CONTROL MOTOR 90W 5IK90RGN-□F REVERSIBLE SPEED CONTROL MOTOR 90W 5RK90RGN-□F



7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 90W 5IK90RGN-□F-B REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 90W 5RK90RGN-□F-B



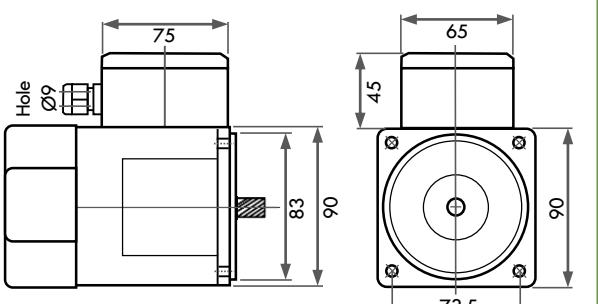
8 SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 90W 5IK90RGB-□F & 5GU-CB



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

5IK90A-□FT	5RK90A-□FT
5IK90GN-□FT	5RK90GN-□FT
5IK90GX-□FT	5RK90GX-□FT
5IK90GB-□FT	5RK90GB-□FT
5IK90VGN-□FT	5RK90VGN-□FT
5IK90RGN-□FT	5RK90RGN-□FT
5IK90RGX-□FT	5RK90RGX-□FT
5IK90RGB-□FT	5RK90RGB-□FT
5IK90GN-□FBT	5RK90GN-□FBT
5IK90GX-□FBT	5RK90GX-□FBT
5IK90GB-□FBT	5RK90GB-□FBT



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - A : 1PHASE 100V (50/60HZ)
 - A2 : 1PHASE 110V (50/60HZ)
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR
L2 : BODY LENGTH OF MOTOR WITH
COACTIVE POWERFUL COOLING FAN (+20)

Unit of measurement : mm (millimeter)

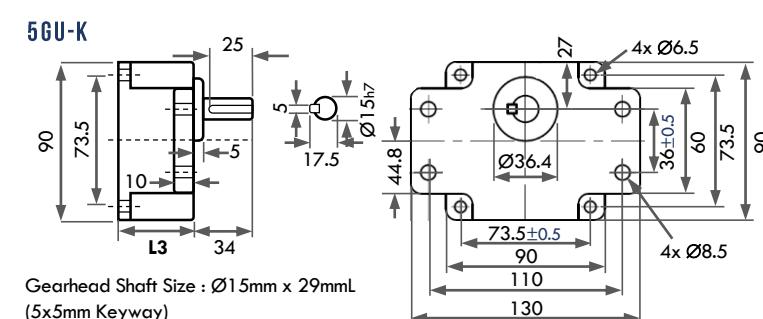
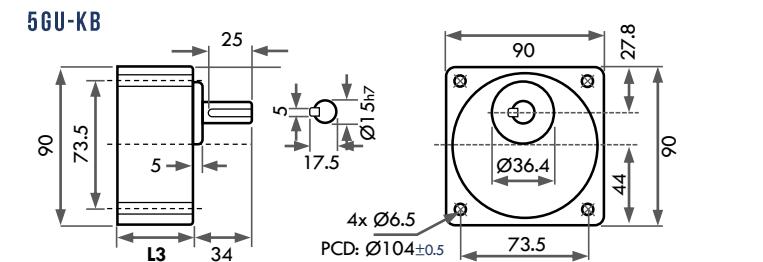
90W

DIMENSION : COMPACT GEARHEAD



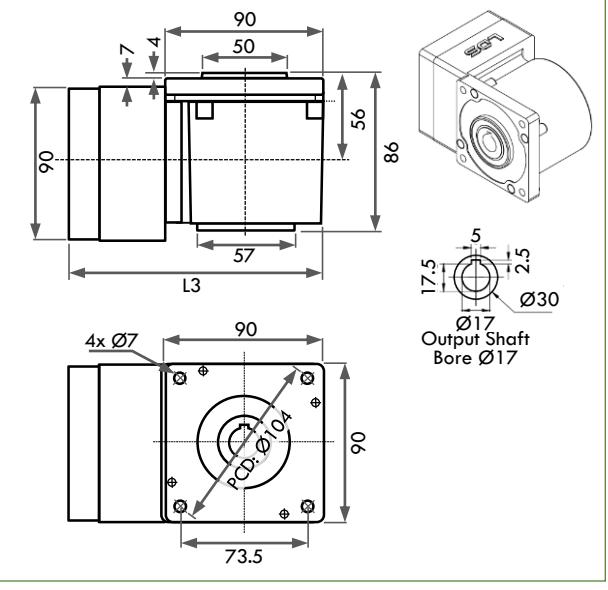
10 5GU-KB PARALLEL SHAFT GEARHEAD (SQUARE GEARBOX) 5GU-K PARALLEL SHAFT GEARHEAD (HINGE TYPE GEARBOX)

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		L3
5GU3KB ~ 5GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	43
5GU25KB ~ 5GU75KB	25, 30, 36, 50, 60, 75	51
5GU90KB ~ 5GU240KB	90, 100, 120, 150, 180, 240	60
5GU3K ~ 5GU75K	3, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75	51
5GU90K ~ 5GU240K	90, 100, 120, 150, 180, 240	60
DOUBLE GEARHEAD		L3
5GU30KB ~ 5GU75KB + (COUPLE WITH 5GU10X)	300, 360, 500, 600, 750	104
5GU90KB ~ 5GU240KB (COUPLE WITH 5GU10X)	900, 1000, 1200, 1500, 1800, 2400	113

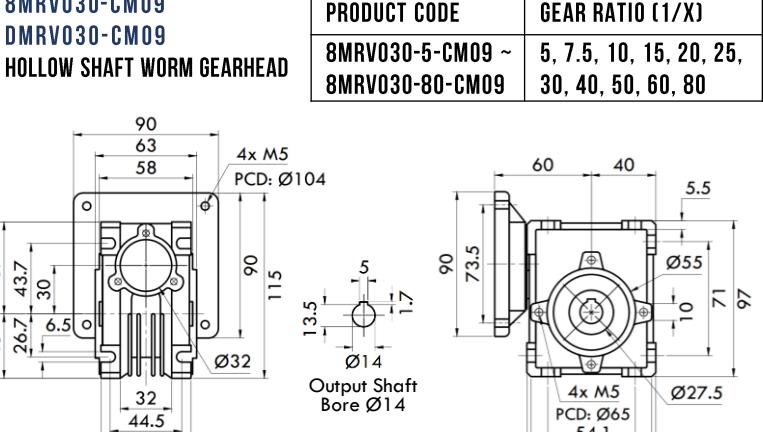


11 5GU-RH HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

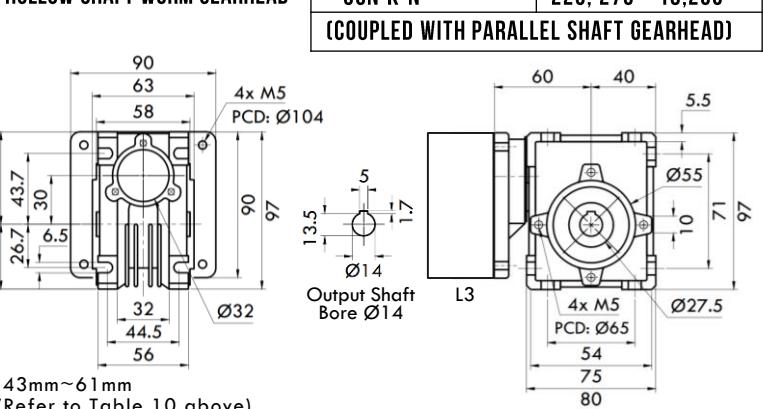
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250 (COUPLED WITH DECIMAL GEAR)	198



12 8MRV030-CM09 DMRV030-CM09 HOLLOW SHAFT WORM GEARHEAD



13 8MRV030-CG09 DMRV030-CG09 HOLLOW SHAFT WORM GEARHEAD (COUPLED WITH PARALLEL SHAFT GEARHEAD)



Unit of measurement : mm (millimeter)

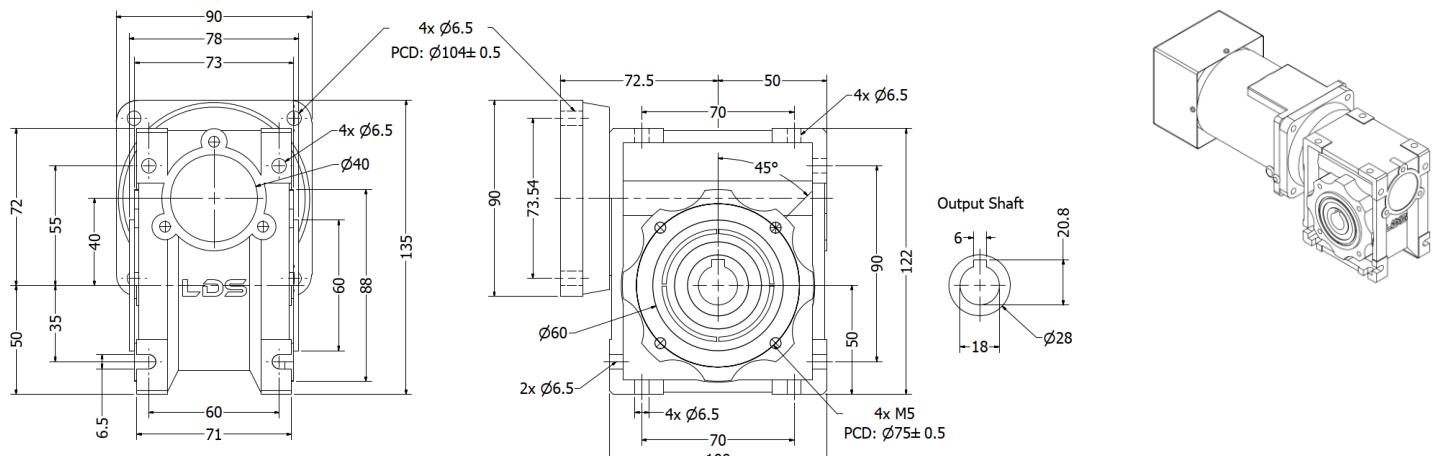
90W

DIMENSION : COMPACT AC MOTOR

90W

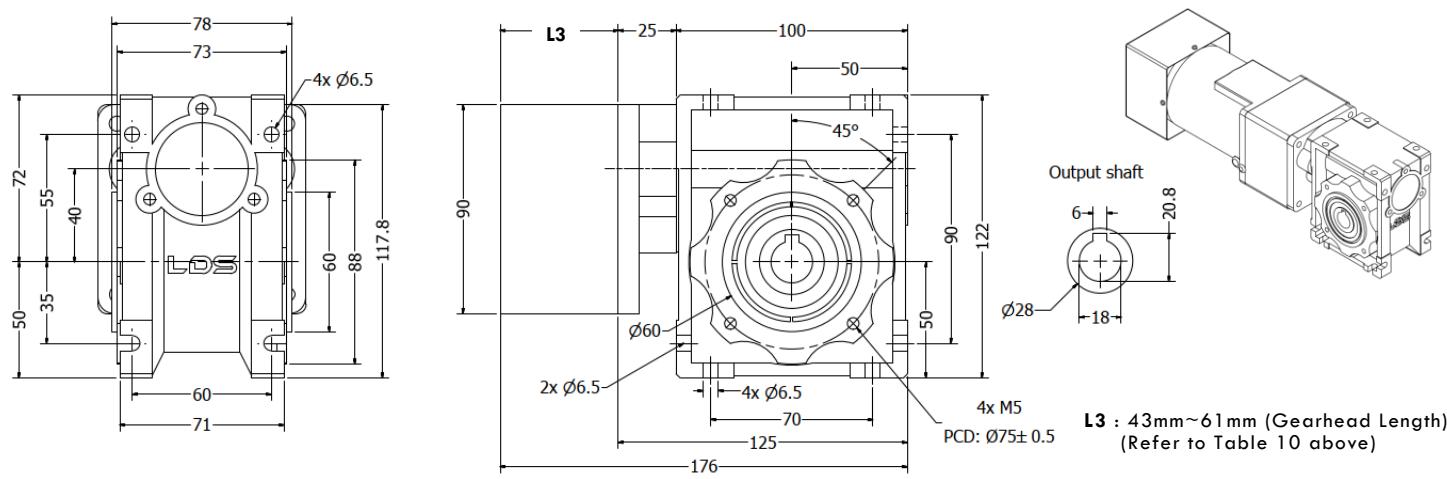
14 8MRV040-CM09
DMRS040-CM09
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM09 ~ 8MRV040-80-CM09	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



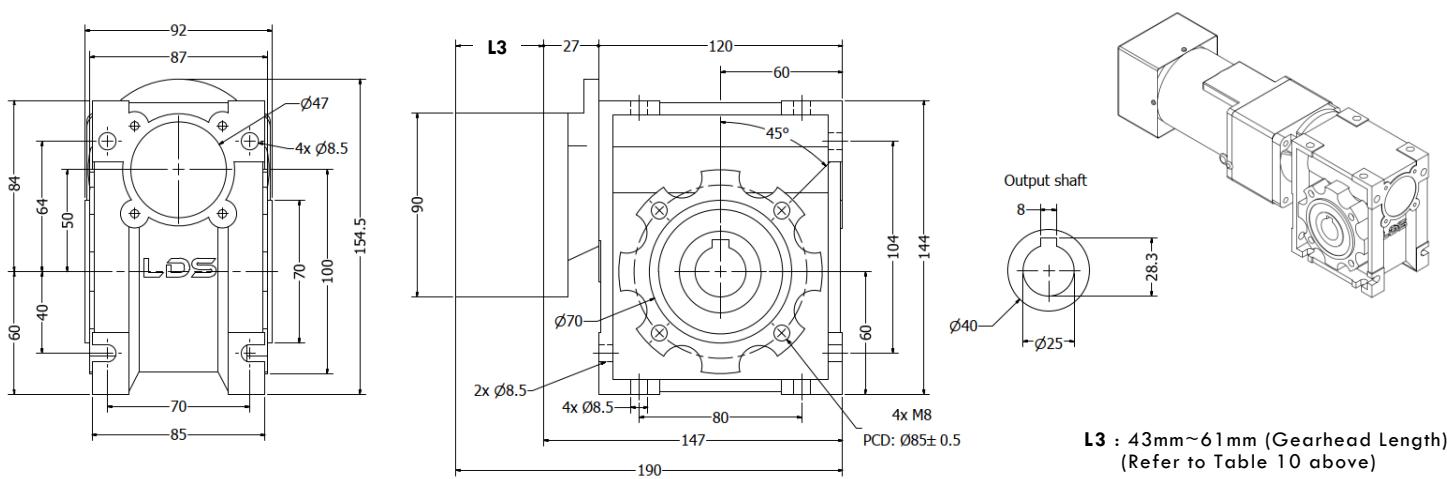
15 8MRV040-CG09 & 5GN~K-N
DMRS040-CG09 & 5GN~K-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-15-CG09 & 5GN-K-N ~ 8MRV040-80-CG09 & 5GN-K-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 19,200



16 8MRV050-CG09 & 5GU~KB-N
DMRS050-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-15-CG09 & 5GU-KB-N ~ 8MRV050-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

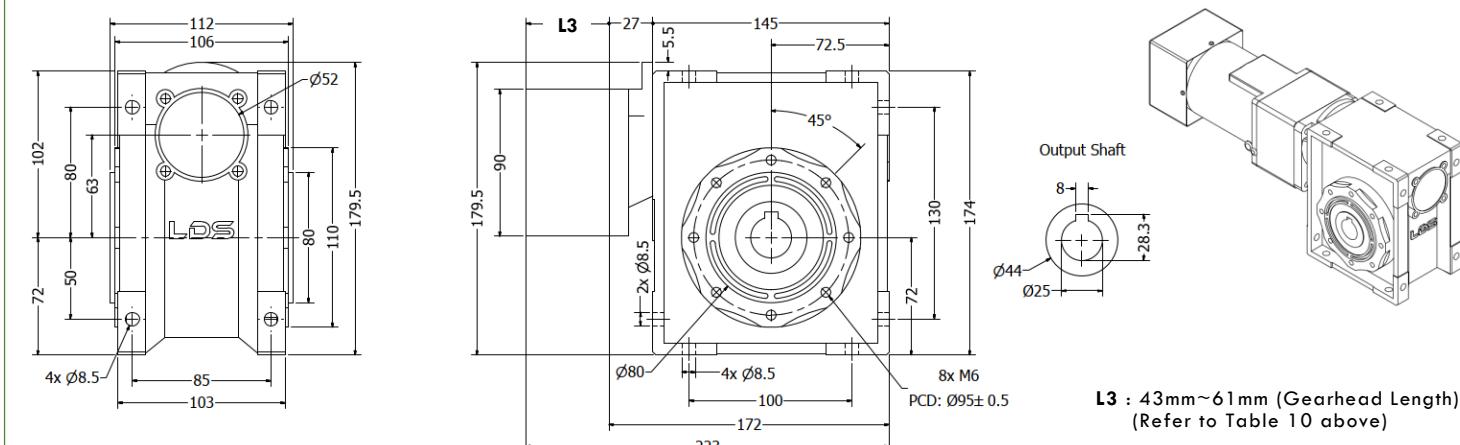


DIMENSION : COMPACT AC MOTOR

90W

17 8MRV063-CG09 & 5GU~KB-N
DMRS063-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG09 & 5GU-KB-N ~ 8MRV063-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000



L3 : 43mm~61mm (Gearhead Length)
(Refer to Table 10 above)

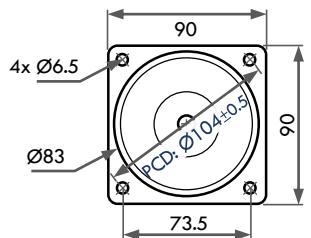
DIMENSION : COMPACT AC MOTOR



120W

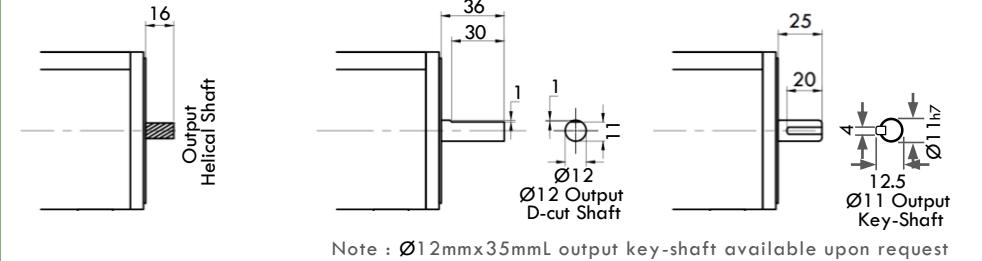
1 MOTOR FRAME DIMENSION FOR ALL 120W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



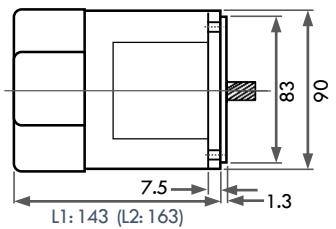
2 MOTOR OUTPUT SHAFT TYPE FOR ALL 120W MOTOR

HORIZONTAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT KEY-SHAFT
5IK120GN/GX-□F	5IK120A-□F	5IK120A-□F-N
5IK120RGN/RGX-□F	5IK120RA-□F	5IK120RA-□F-N
5IK120VGN/VGX-□F	5IK120VA-□F	5IK120VA-□F-N
5RK120GN/GX-□F	5RK120A-□F	5RK120A-□F-N
5RK120RGN/RGX-□F	5RK120RA-□F	5RK120RA-□F-N



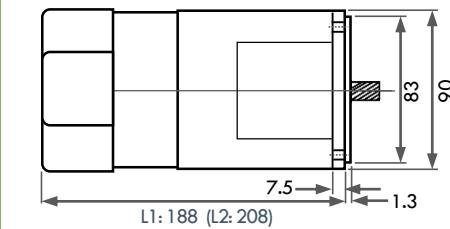
3 INDUCTION / ASYNCHRONOUS MOTOR 120W 5IK120GN-□F / 5IK120VGN-□F

REVERSIBLE MOTOR 120W
5RK120GN-□F



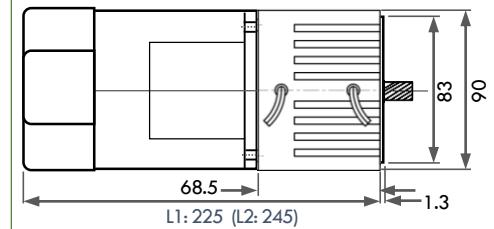
4 ELECTROMAGNETIC BRAKE MOTOR 120W 5IK120GN-□F-B / 5IK120VGN-□F-B

REVERSIBLE BRAKE MOTOR 120W
5RK120GN-□F-B



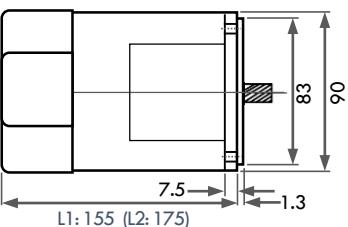
5 ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 120W 5IK120GB-□F & 5GU-CB

5IK120VGB-□F & 5GU-CB



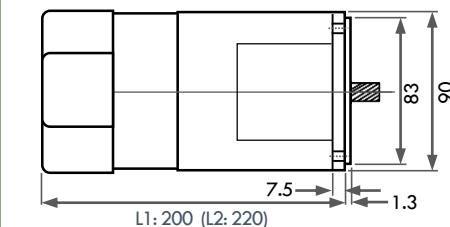
6 SPEED CONTROL MOTOR 120W

5IK120RGN-□F
REVERSIBLE SPEED CONTROL MOTOR 120W
5RK120RGN-□F



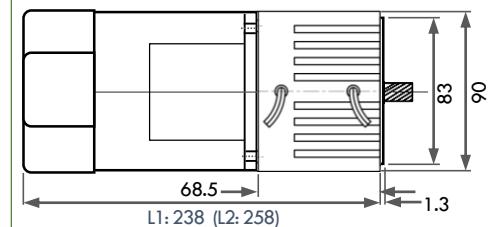
7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 120W

5IK120RGN-□F-B
REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 120W
5RK120RGN-□F-B



8 SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 120W 5IK120RGB-□F & 5GU-CB

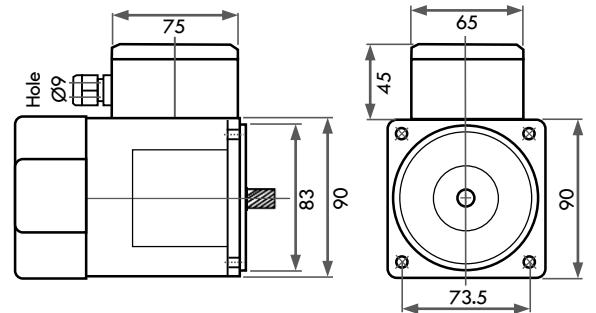
5IK120VRGB-□F & 5GU-CB



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

5IK120A-□FT 5RK120A-□FT
5IK120GN-□FT 5RK120GN-□FT
5IK120GX-□FT 5RK120GX-□FT
5IK120GB-□FT 5RK120GB-□FT
5IK120RGN-□FT 5RK120RGN-□FT
5IK120RGX-□FT 5RK120RGX-□FT
5IK120RGB-□FT 5RK120RGB-□FT
5IK120GN-□FBT 5RK120GN-□FBT
5IK120GX-□FBT 5RK120GX-□FBT
5IK120GB-□FBT 5RK120GB-□FBT



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - A : 1PHASE 100V (50/60HZ)
 - A2 : 1PHASE 110V (50/60HZ)
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR
L2 : BODY LENGTH OF MOTOR WITH
COACTIVE POWERFUL COOLING FAN (+20)

Unit of measurement : mm (millimeter)

DIMENSION : COMPACT GEARHEAD



MOTOR WITH TERMINAL BOX

MOTOR WITH DECIMAL GEAR (DOUBLE REDUCTION GEARHEAD) 5GU-K

MOTOR WITH RIGHT ANGLE WORM GEARHEAD DMRV030

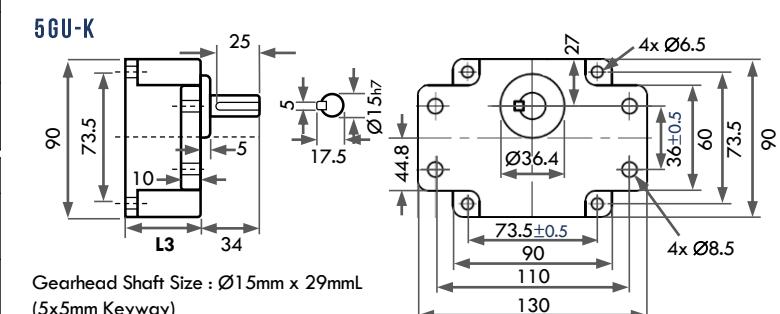
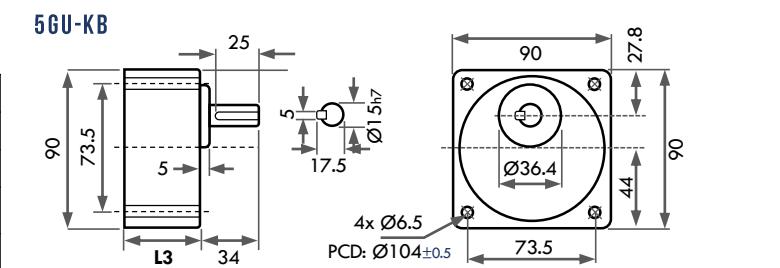
MOTOR WITH RIGHT ANGLE WORM GEARHEAD 8MRV040-CM09

MOTOR WITH RIGHT ANGLE SPIRAL BEVEL GEARHEAD 5GU-RH

10 5GU-KB PARALLEL SHAFT GEARHEAD (SQUARE GEARBOX) 5GU-K PARALLEL SHAFT GEARHEAD (HINGE TYPE GEARBOX)

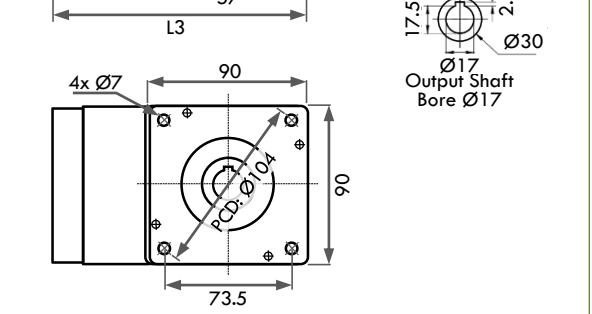
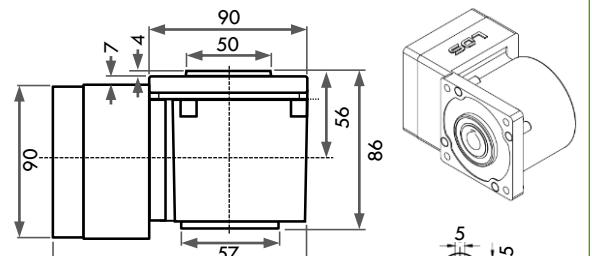
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU3KB ~ 5GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	43
5GU25KB ~ 5GU75KB	25, 30, 36, 50, 60, 75	51
5GU90KB ~ 5GU240KB	90, 100, 120, 150, 180, 240	60
5GU3K ~ 5GU75K	3, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75	51
5GU90K ~ 5GU240K	90, 100, 120, 150, 180, 240	60

DOUBLE GEARHEAD	L3
5GU30KB ~ 5GU75KB + (COUPLE WITH 5GU10X)	300, 360, 500, 600, 750
5GU90KB ~ 5GU240KB (COUPLE WITH 5GU10X)	900, 1000, 1200, 1500, 1800, 2400

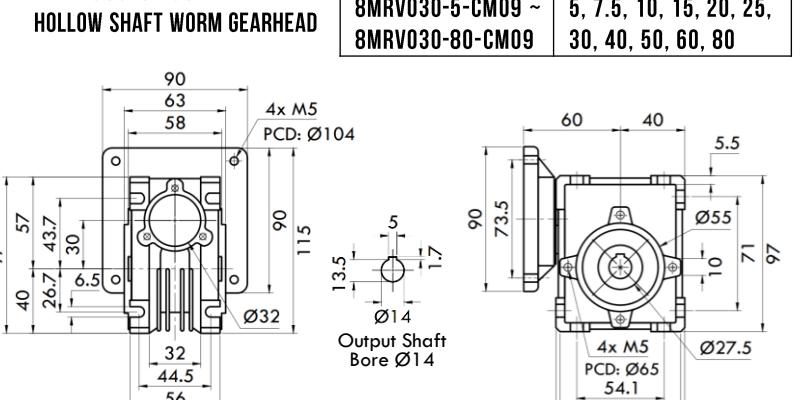


11 5GU-RH HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

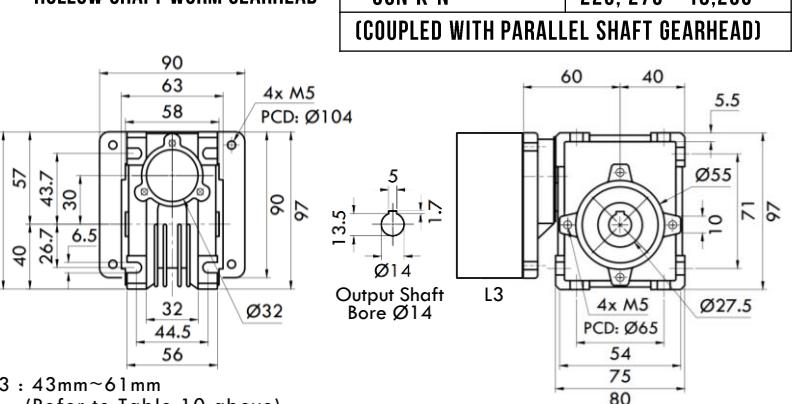
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250	198



12 8MRV030-CM09 DMRV030-CM09 HOLLOW SHAFT WORM GEARHEAD



13 8MRV030-CG09 DMRV030-CG09 HOLLOW SHAFT WORM GEARHEAD (COUPLED WITH PARALLEL SHAFT GEARHEAD)



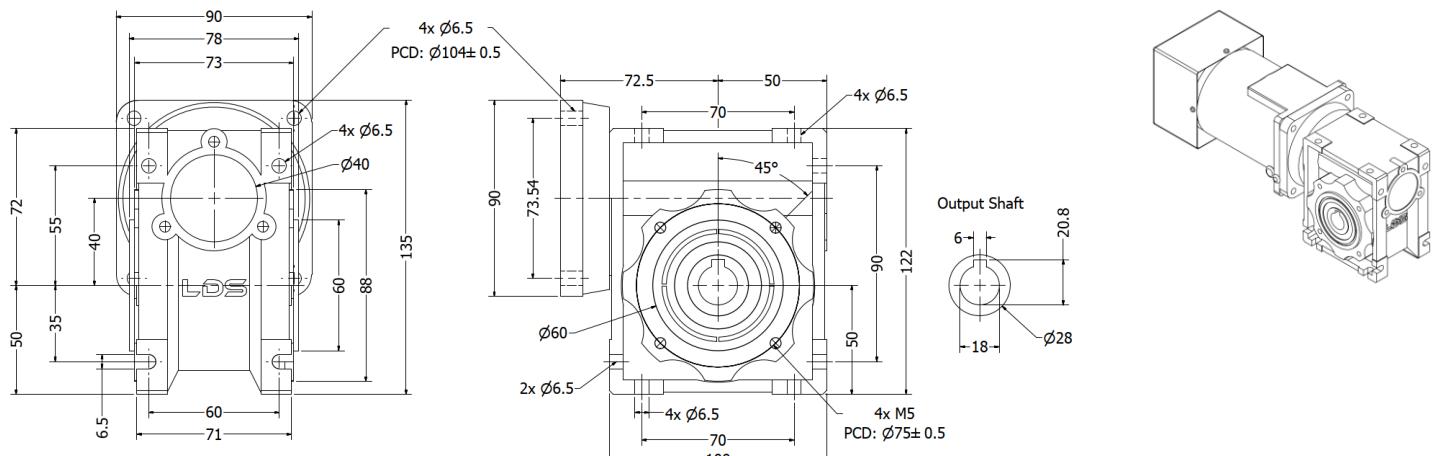
Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

120W

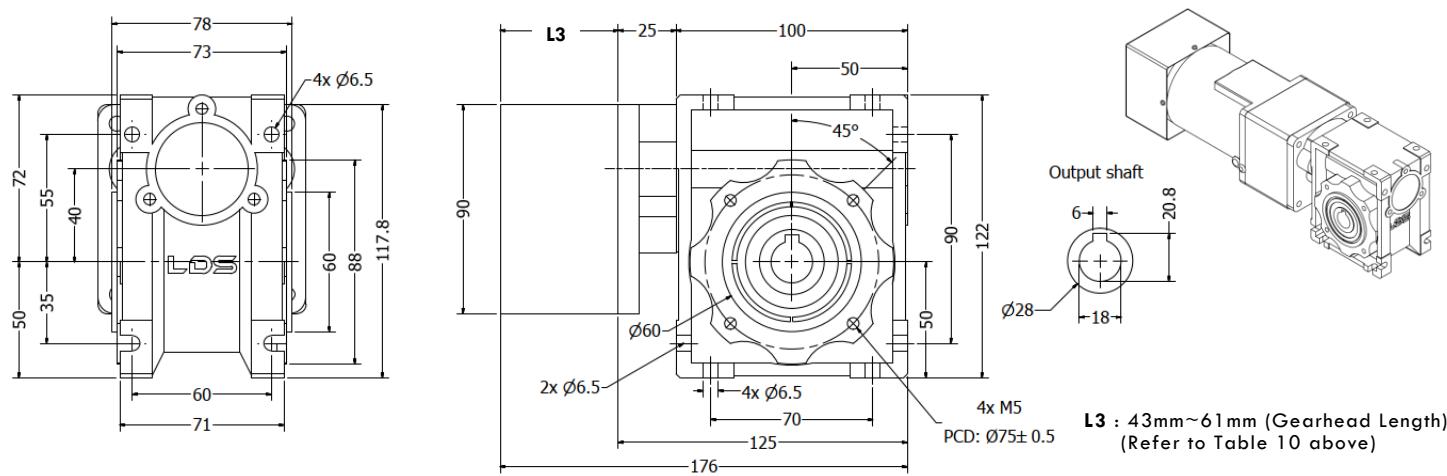
14 8MRV040-CM09
DMRS040-CM09
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM09 ~ 8MRV040-80-CM09	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



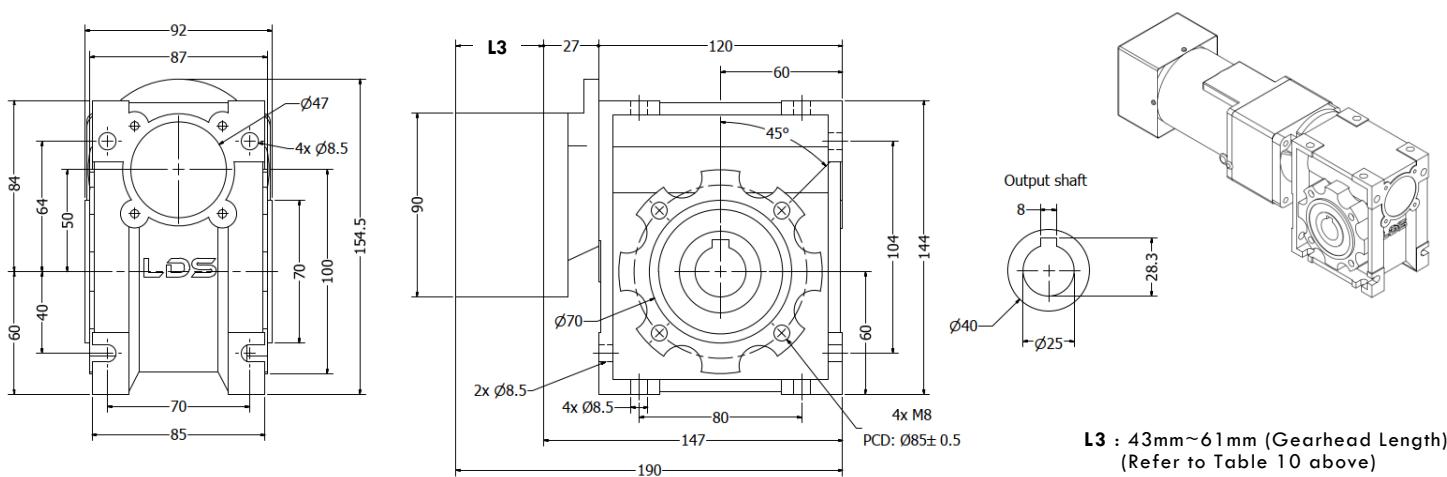
15 8MRV040-CG09 & 5GN~K-N
DMRS040-CG09 & 5GN~K-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-15-CG09 & 5GN-K-N ~ 8MRV040-80-CG09 & 5GN-K-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 19,200



16 8MRV050-CG09 & 5GU~KB-N
DMRS050-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-15-CG09 & 5GU-KB-N ~ 8MRV050-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

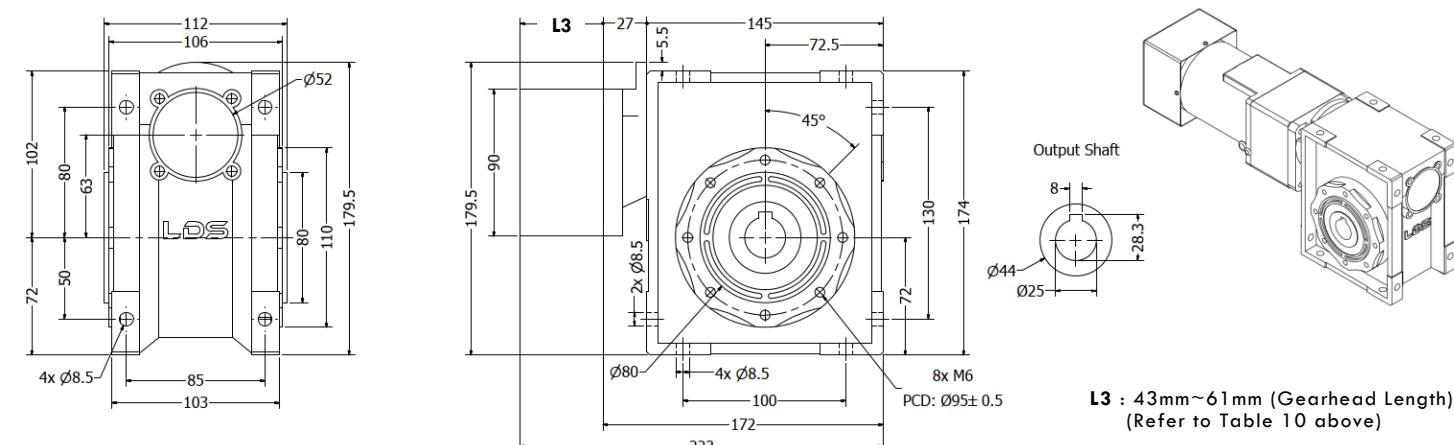


DIMENSION : COMPACT AC MOTOR

120W

17 8MRV063-CG09 & 5GU~KB-N
DMRS063-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG09 & 5GU-KB-N ~ 8MRV063-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000



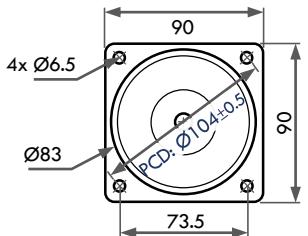
DIMENSION : COMPACT AC MOTOR



150W

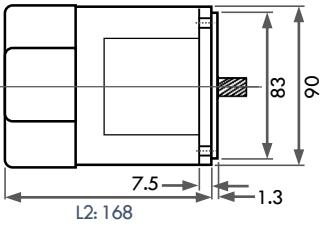
1 MOTOR FRAME DIMENSION FOR ALL 150W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



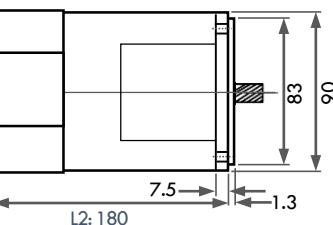
3 INDUCTION / ASYNCHRONOUS MOTOR 150W

5IK150GN-□EF / 5IK150VGN-□EF
REVERSIBLE MOTOR 150W
5RK150GN-□EF



6 SPEED CONTROL MOTOR 150W

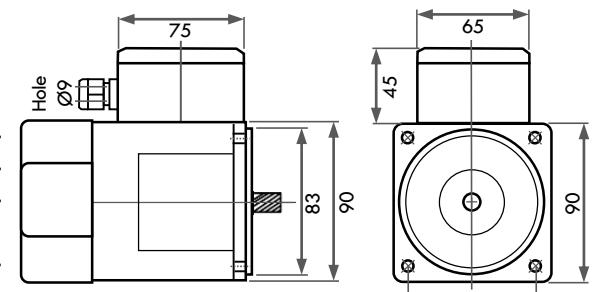
5IK150RGN-□EF
REVERSIBLE SPEED CONTROL MOTOR 150W
5RK150RGN-□EF



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

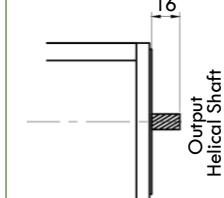
5IK150A-□EFT 5RK150A-□EFT
5IK150GN-□EFT 5RK150GN-□EFT
5IK150GX-□EFT 5RK150GX-□EFT
5IK150GB-□EFT 5RK150GB-□EFT
5IK150VGN-□EFT 5RK150VGN-□EFT
5IK150RGN-□EFT 5RK150RGN-□EFT
5IK150RGX-□EFT 5RK150RGX-□EFT
5IK150RGB-□EFT 5RK150RGB-□EFT
5IK150GN-□EFBT 5RK150GN-□EFBT
5IK150GX-□EFBT 5RK150GX-□EFBT
5IK150GB-□EFBT 5RK150GB-□EFBT



2 MOTOR OUTPUT SHAFT TYPE FOR ALL 150W MOTOR

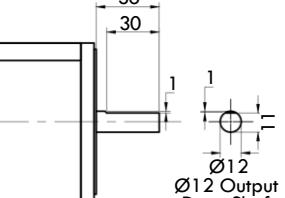
HELICAL-SHAFT (PINION-SHAFT)

5IK150GN/GX-□EF
5IK150RGN/RGX-□EF
5IK150VGN/VGX-□EF
5RK150GN/GX-□EF
5RK150RGN/RGX-□EF



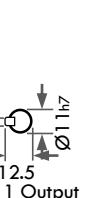
OUTPUT ROUND-SHAFT (D-CUT)

5IK150A-□EF
5IK150RA-□EF
5IK150VA-□EF
5RK150A-□EF
5RK150RA-□EF



OUTPUT KEY-SHAFT

5IK150A-□EF-N
5IK150RA-□EF-N
5IK150VA-□EF-N
5RK150A-□EF-N
5RK150RA-□EF-N

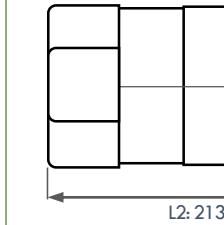


Note : Ø12mmx35mmL output key-shaft available upon request

3

4 ELECTROMAGNETIC BRAKE MOTOR 150W

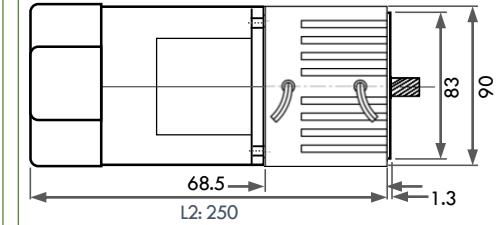
5IK150GN-□EF-B / 5IK150VGN-□EF-B
REVERSIBLE BRAKE MOTOR 150W
5RK150GN-□EF-B



5

ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 150W

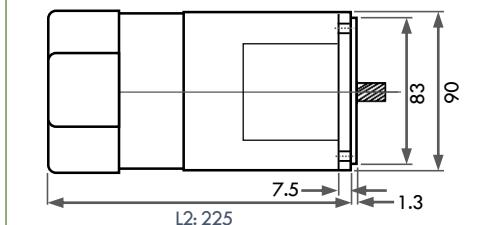
5IK150GB-□EF & 5GU-CB
5IK150VGB-□EF & 5GU-CB



6

7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 150W

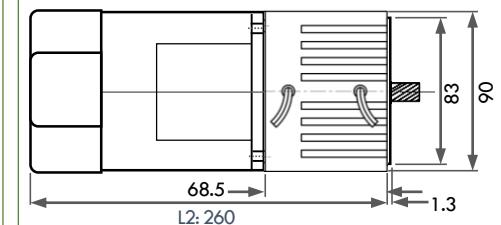
5IK150RGN-□EF-B
REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 150W
5RK150RGN-□EF-B



8

SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 150W

5IK150RGB-□EF & 5GU-CB



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR
L2 : BODY LENGTH OF MOTOR WITH
COACTIVE POWERFUL COOLING FAN (+20)

Unit of measurement : mm (millimeter)

DIMENSION : COMPACT GEARHEAD



MOTOR WITH PARALLEL SHAFT GEARHEAD

5GU-KB

MOTOR WITH DECIMAL GEAR
(DOUBLE REDUCTION GEARHEAD)
5GU10X + 5GU-KB

CLUTCH & BRAKE MOTOR WITH PARALLEL SHAFT GEARHEAD AND COACTIVE POWERFUL COOLING FAN

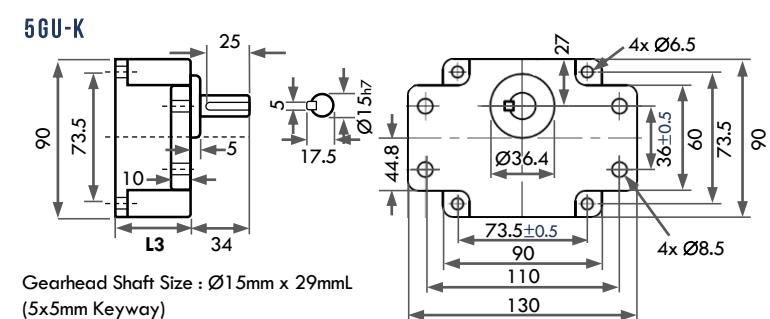
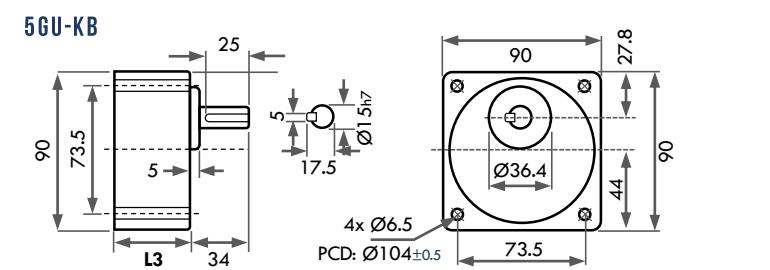
5GU90K ~ 5GU240K

MOTOR WITH WORM GEARHEAD (DOUBLE REDUCTION GEARHEAD)

5GN-K-N + 8MRV040-CG09

MOTOR WITH RIGHT ANGLE SPIRAL BEVEL GEARHEAD

5GU-RH

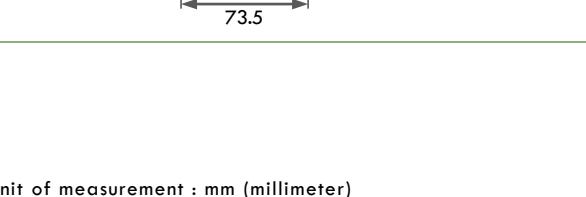
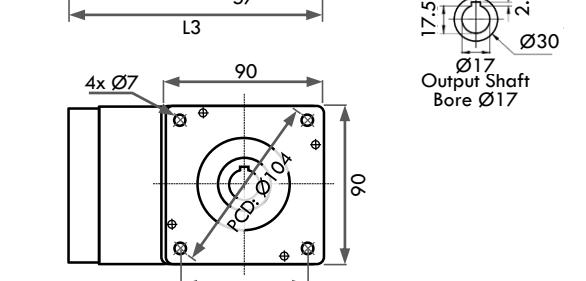
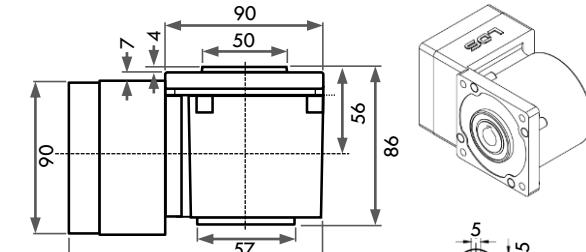


Gearhead Shaft Size : Ø15mm x 29mmL
(5x5mm Keyway)

11 5GU-RH

HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

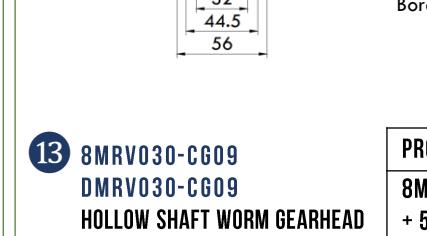
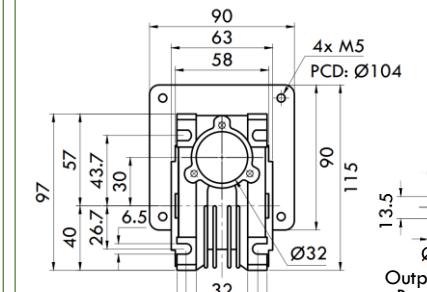
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250 (COUPLED WITH DECIMAL GEAR)	198



12 8MRV030-CM09 DMRV030-CM09

HOLLOW SHAFT WORM GEARHEAD

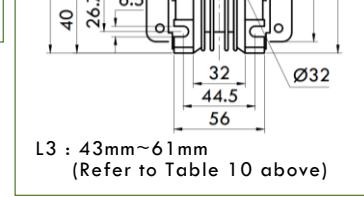
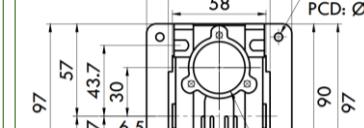
PRODUCT CODE	GEAR RATIO (1/X)
8MRV030-5-CM09 ~	5, 7.5, 10, 15, 20, 25,
8MRV030-80-CM09	30, 40, 50, 60, 80



13 8MRV030-CG09 DMRV030-CG09

HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV030-100-CG09	100, 135, 150, 180,
+ 5GN-K-N	225, 270 ~ 19,200



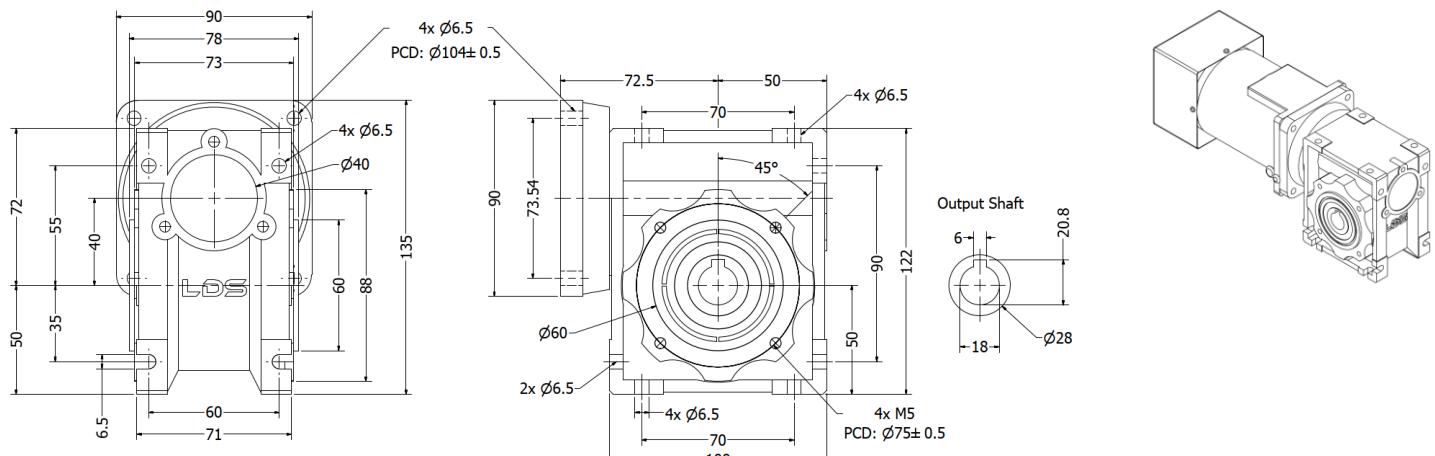
150W

DIMENSION : COMPACT AC MOTOR

150W

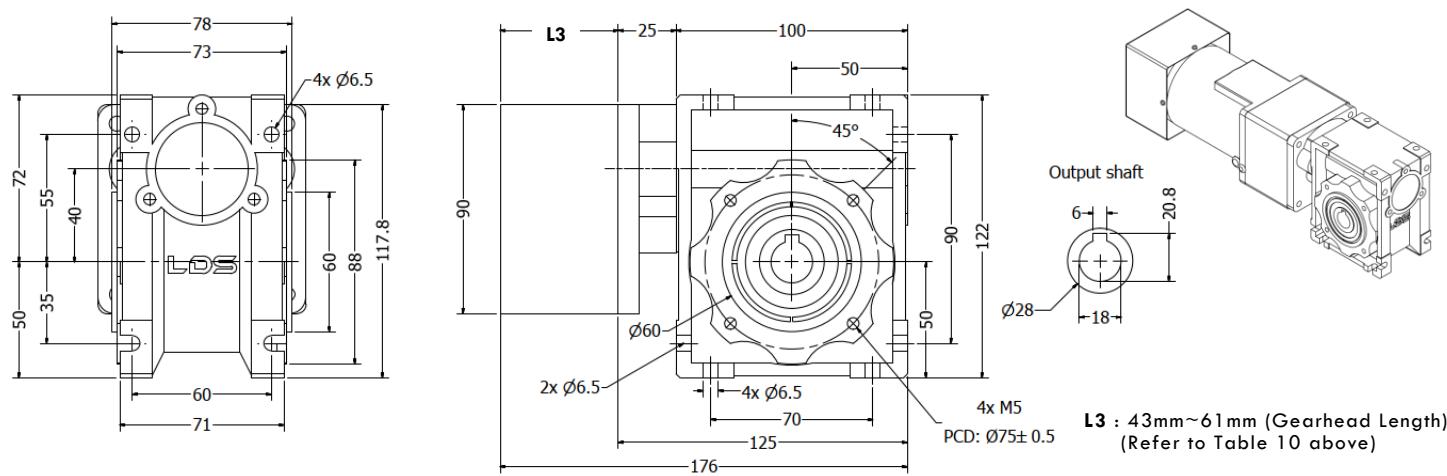
14 8MRV040-CM09
DMRS040-CM09
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM09 ~ 8MRV040-80-CM09	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



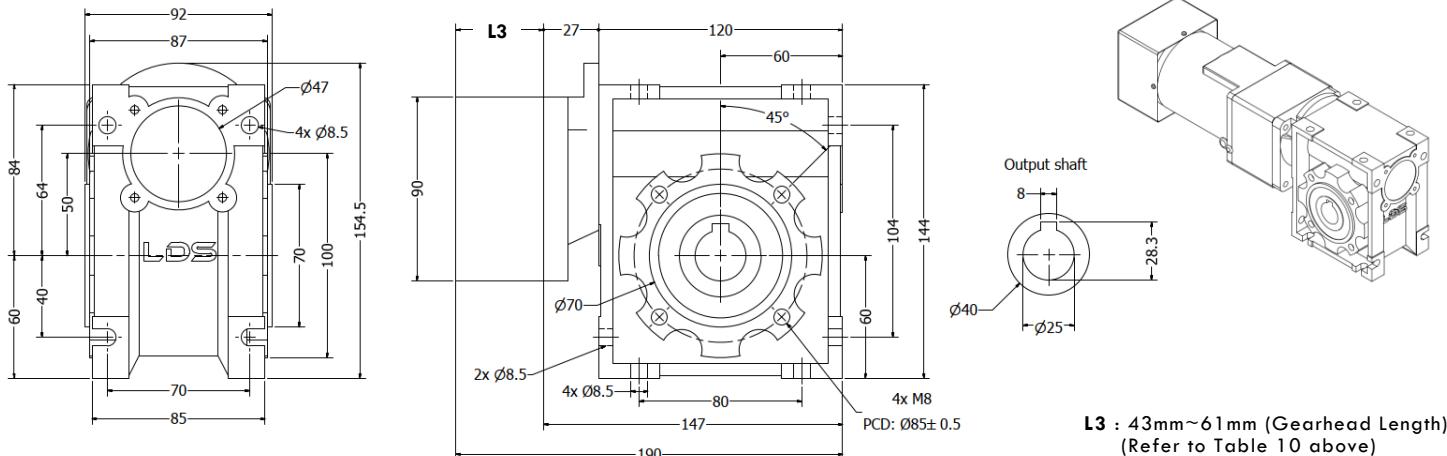
15 8MRV040-CG09 & 5GN~K-N
DMRS040-CG09 & 5GN~K-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-15-CG09 & 5GN-K-N ~ 8MRV040-80-CG09 & 5GN-K-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 19,200



16 8MRV050-CG09 & 5GU~KB-N
DMRS050-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-15-CG09 & 5GU-KB-N ~ 8MRV050-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

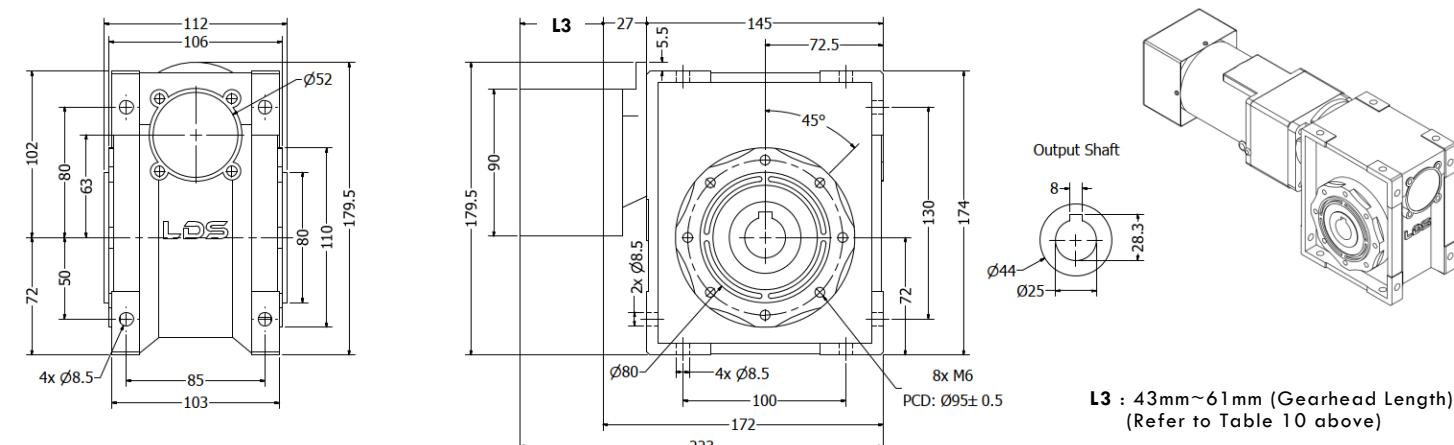


DIMENSION : COMPACT AC MOTOR

150W

17 8MRV063-CG09 & 5GU~KB-N
DMRS063-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG09 & 5GU-KB-N ~ 8MRV063-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

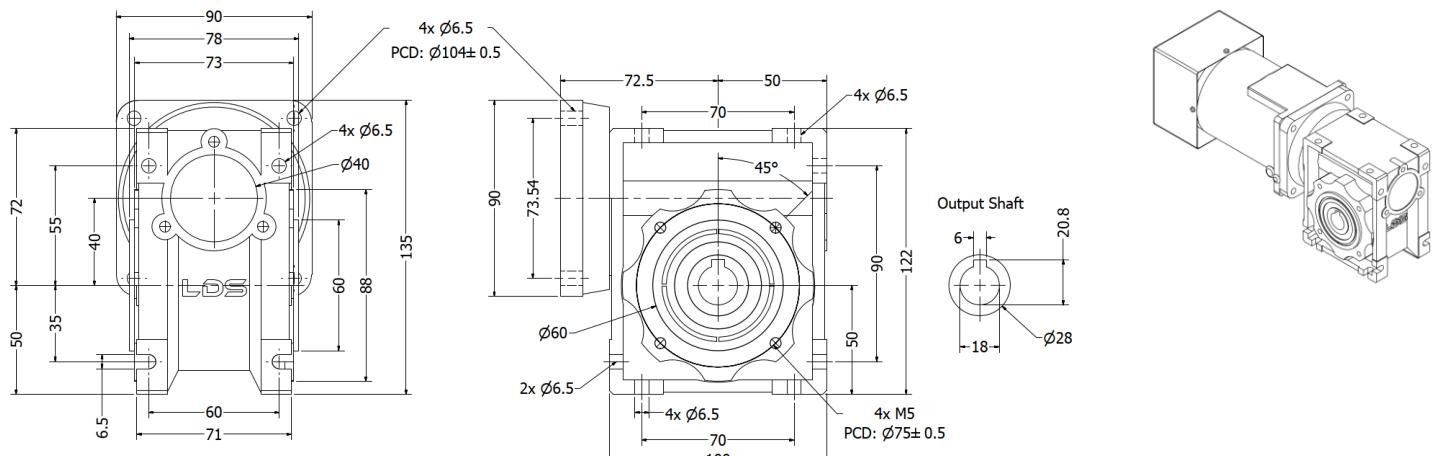


DIMENSION : COMPACT AC MOTOR

180W

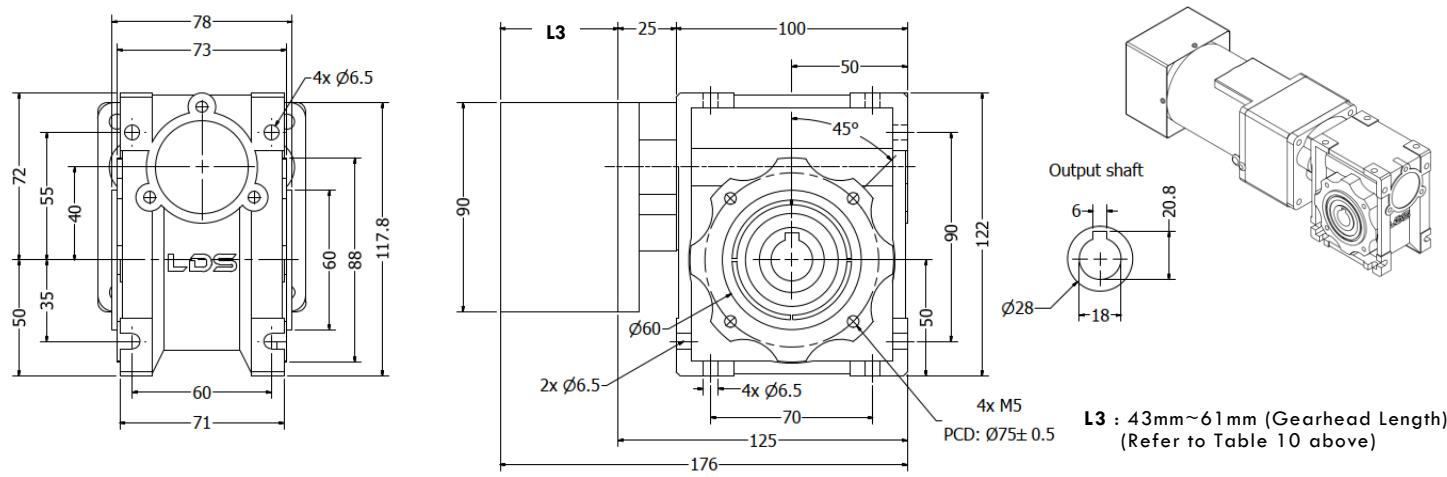
14 8MRV040-CM09
DMRS040-CM09
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM09 ~ 8MRV040-80-CM09	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



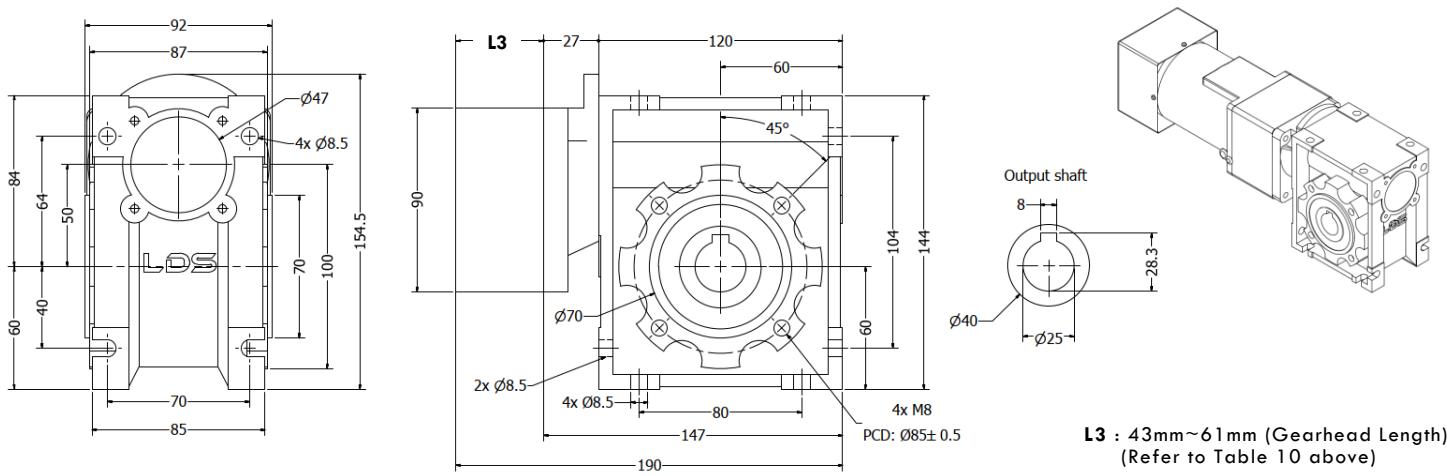
15 8MRV040-CG09 & 5GN~K-N
DMRS040-CG09 & 5GN~K-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-15-CG09 & 5GN-K-N ~ 8MRV040-80-CG09 & 5GN-K-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 19,200



16 8MRV050-CG09 & 5GU~KB-N
DMRS050-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-15-CG09 & 5GU-KB-N ~ 8MRV050-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

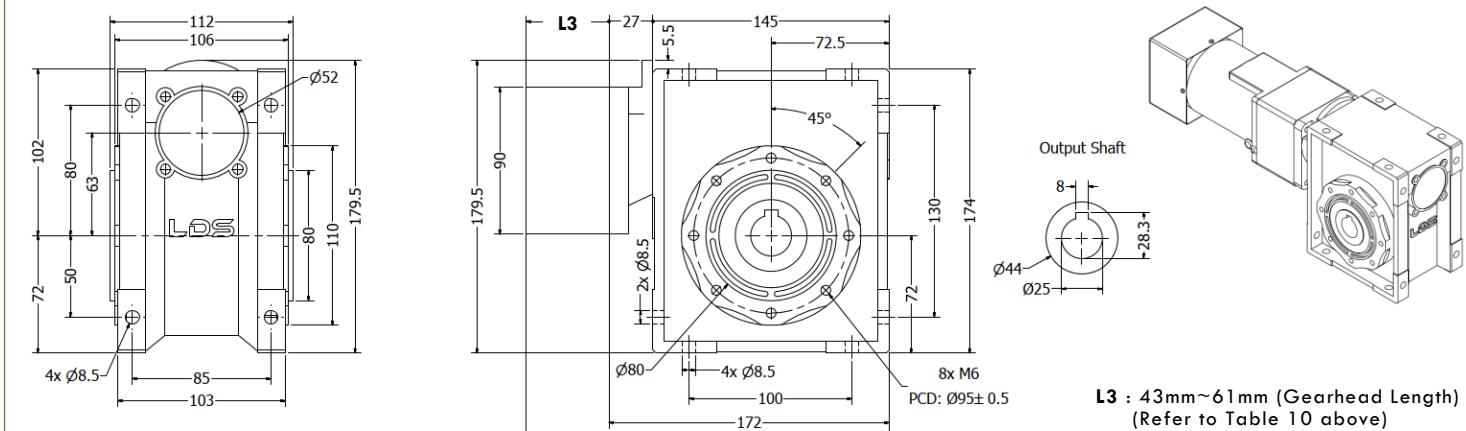


DIMENSION : COMPACT AC MOTOR

180W

17 8MRV063-CG09 & 5GU~KB-N
DMRS063-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG09 & 5GU-KB-N ~ 8MRV063-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000



L3 : 43mm~61mm (Gearhead Length)
(Refer to Table 10 above)

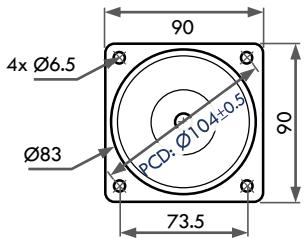
DIMENSION : COMPACT AC MOTOR



200W

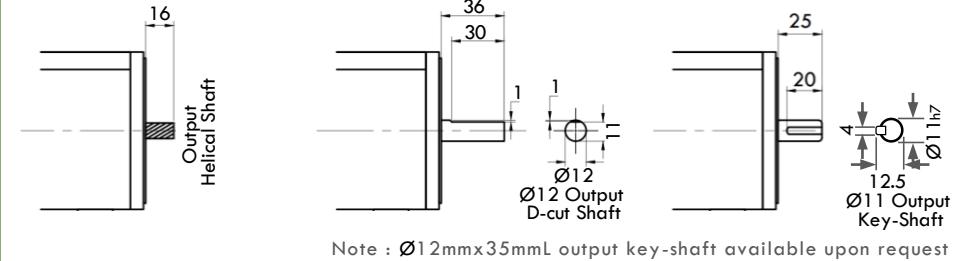
1 MOTOR FRAME DIMENSION FOR ALL 200W MOTOR

INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



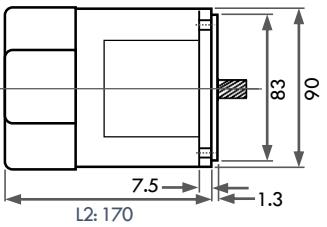
2 MOTOR OUTPUT SHAFT TYPE FOR ALL 200W MOTOR

HELICAL-SHAFT (PINION-SHAFT)	OUTPUT ROUND-SHAFT (D-CUT)	OUTPUT KEY-SHAFT
5IK200GN/GX-□EF	5IK200A-□EF	5IK200A-□EF-N
5IK200RGN/RGX-□EF	5IK200RA-□EF	5IK200RA-□EF-N
5IK200VGN/VGX-□EF	5IK200VA-□EF	5IK200VA-□EF-N
5RK200GN/GX-□EF	5RK200A-□EF	5RK200A-□EF-N
5RK200RGN/RGX-□EF	5RK200RA-□EF	5RK200RA-□EF-N



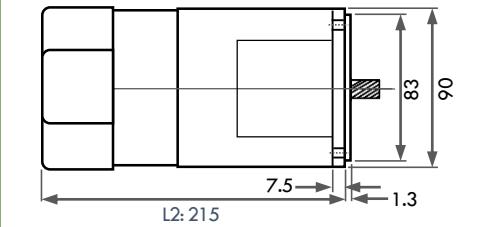
3 INDUCTION / ASYNCHRONOUS MOTOR 200W

5IK200GN-□EF / 5IK200VGN-□EF
REVERSIBLE MOTOR 200W
5RK200GN-□EF



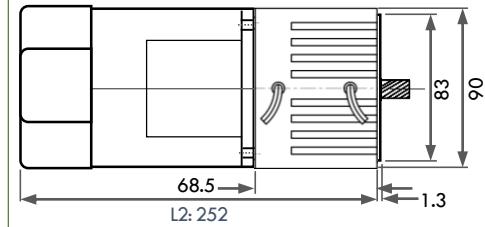
4 ELECTROMAGNETIC BRAKE MOTOR 200W

5IK200GN-□EF-B / 5IK200VGN-□EF-B
REVERSIBLE BRAKE MOTOR 200W
5RK200GN-□EF-B



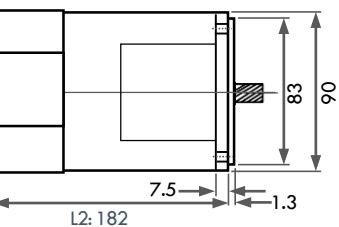
5 ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 200W

5IK200GB-□EF & 5GU-CB
5IK200VGB-□EF & 5GU-CB



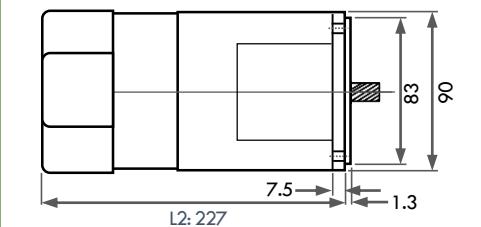
6 SPEED CONTROL MOTOR 200W

5IK200RGN-□EF
REVERSIBLE SPEED CONTROL MOTOR 200W
5RK200RGN-□EF



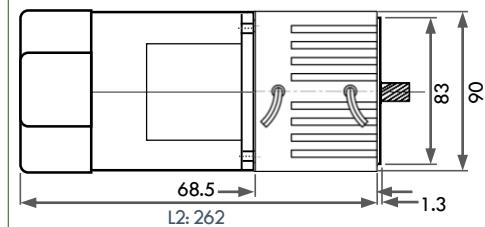
7 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 200W

5IK200RGN-□EF-B
REVERSIBLE SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 200W
5RK200RGN-□EF-B



8 SPEED CONTROL ELECTROMAGNETIC CLUTCH & BRAKE MOTOR 200W

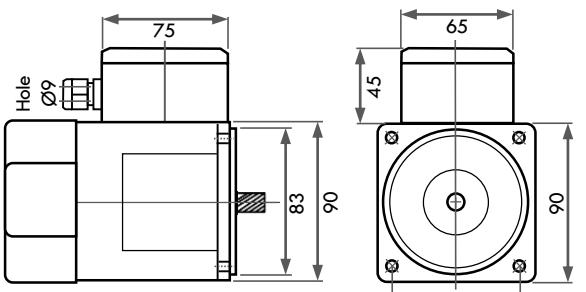
5IK200RGB-□EF & 5GU-CB



MOTOR WITH TERMINAL BOX

9 MOTOR WITH TERMINAL BOX (IP44)

5IK200A-□EFT 5RK200A-□EFT
5IK200GN-□EFT 5RK200GN-□EFT
5IK200GX-□EFT 5RK200GX-□EFT
5IK200GB-□EFT 5RK200GB-□EFT
5IK200VGN-□EFT 5RK200VGN-□EFT
5IK200RGN-□EFT 5RK200RGN-□EFT
5IK200RGX-□EFT 5RK200RGX-□EFT
5IK200RGB-□EFT 5RK200RGB-□EFT
5IK200GN-□EFBT 5RK200GN-□EFBT
5IK200GX-□EFBT 5RK200GX-□EFBT
5IK200GB-□EFBT 5RK200GB-□EFBT



NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR
L2 : BODY LENGTH OF MOTOR WITH
COACTIVE POWERFUL COOLING FAN (+20)

Unit of measurement : mm (millimeter)

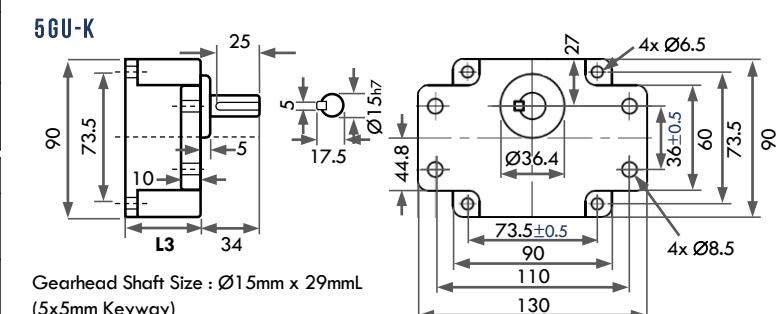
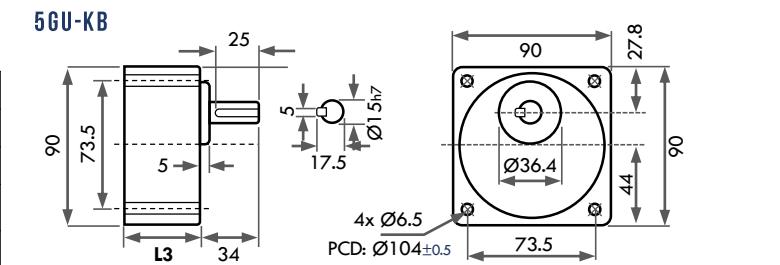
DIMENSION : COMPACT GEARHEAD



10 5GU-KB PARALLEL SHAFT GEARHEAD (SQUARE GEARBOX) 5GU-K PARALLEL SHAFT GEARHEAD (HINGE TYPE GEARBOX)

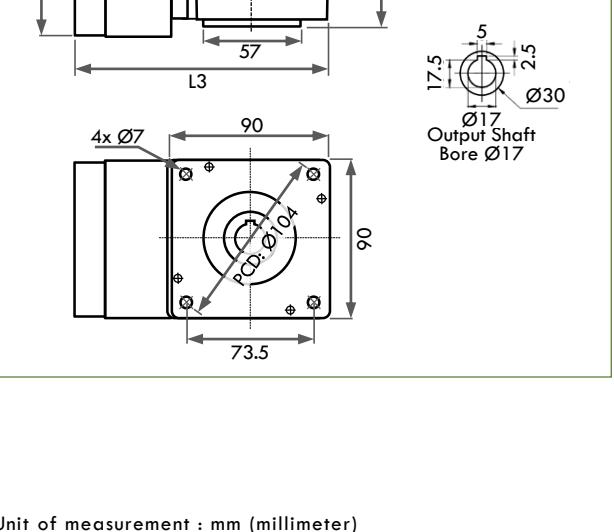
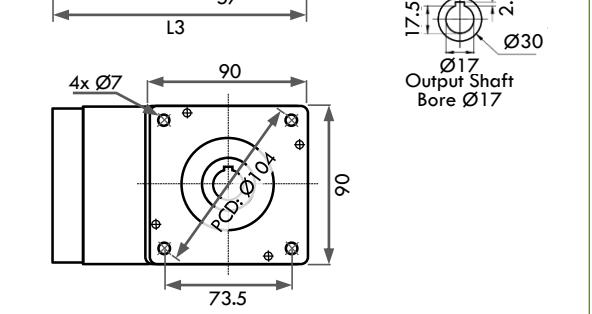
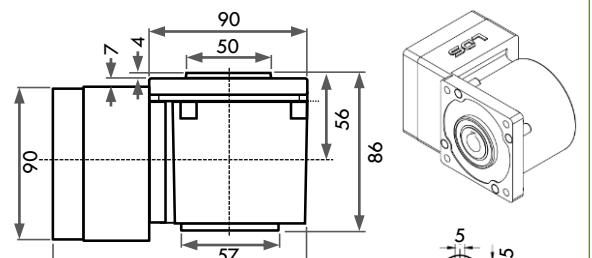
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU3KB ~ 5GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	43
5GU25KB ~ 5GU75KB	25, 30, 36, 50, 60, 75	51
5GU90KB ~ 5GU240KB	90, 100, 120, 150, 180, 240	60
5GU3K ~ 5GU75K	3, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75	51
5GU90K ~ 5GU240K	90, 100, 120, 150, 180, 240	60

DOUBLE GEARHEAD	L3
5GU30KB ~ 5GU75KB + (COUPLE WITH 5GU10X)	300, 360, 500, 600, 750
5GU90KB ~ 5GU240KB (COUPLE WITH 5GU10X)	900, 1000, 1200, 1500, 1800, 2400



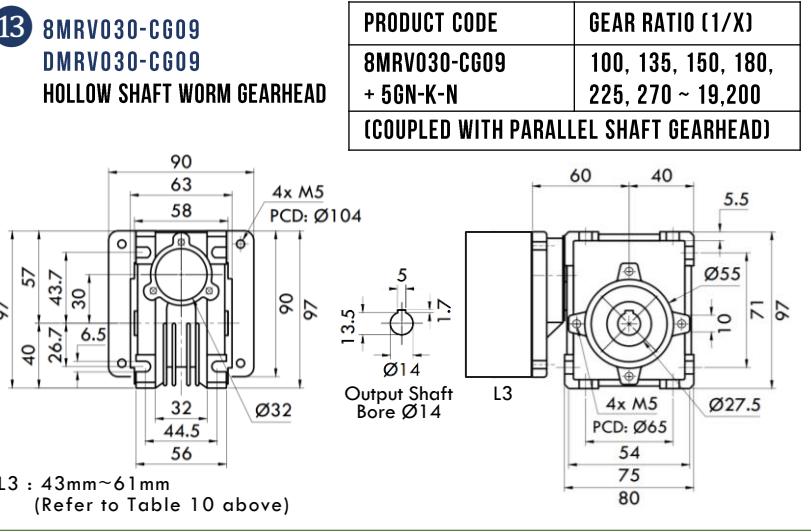
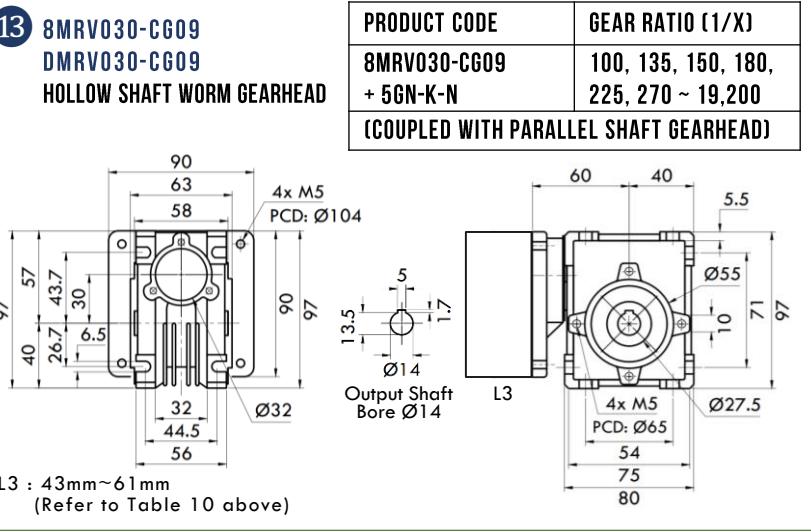
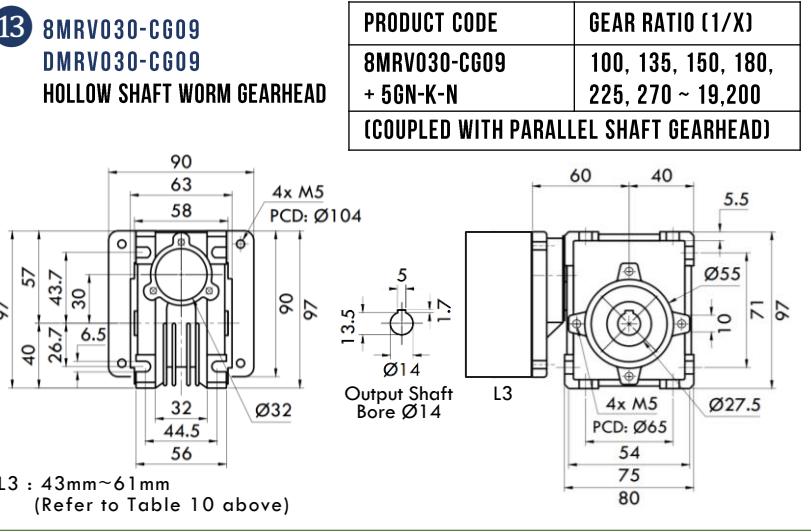
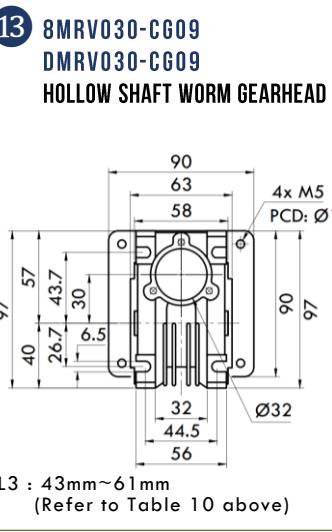
11 5GU-RH HOLLOW SHAFT SPIRAL BEVEL GEARHEAD

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
5GU9RH ~ 5GU225RH (SINGLE REDUCTION)	9, 15, 18, 22.5, 27, 37.5, 45, 54, 75, 90, 108, 150, 180, 225	145
5GU27RH ~ 5GU225RH + 5GX10X (DOUBLE REDUCTION)	270, 375, 450, 540, 750, 900, 1080, 1500, 1800, 2250 (COUPLED WITH DECIMAL GEAR)	198



12 8MRV030-CM09 DMRV030-CM09 HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV030-5-CM09 ~	5, 7.5, 10, 15, 20, 25,
8MRV030-80-CM09	30, 40, 50, 60, 80



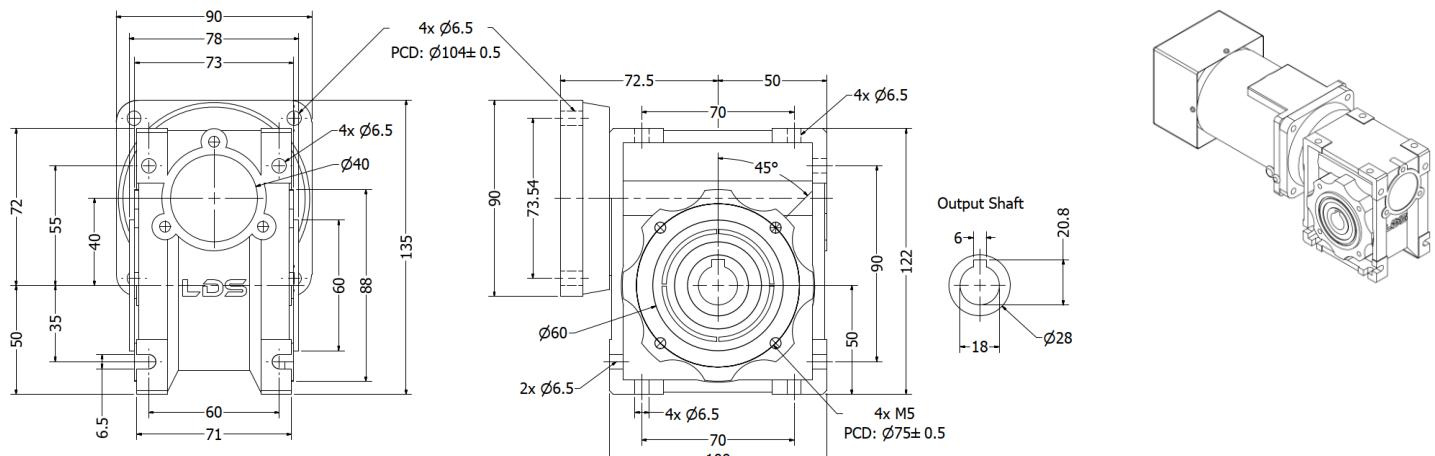
200W

DIMENSION : COMPACT AC MOTOR

200W

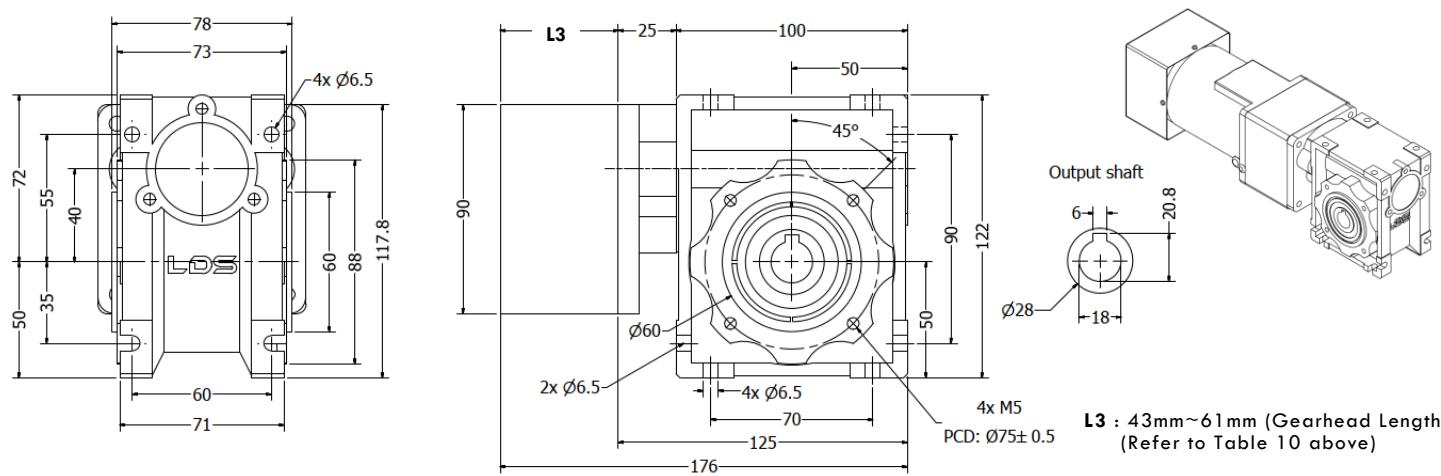
14 8MRV040-CM09
DMRS040-CM09
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM09 ~ 8MRV040-80-CM09	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



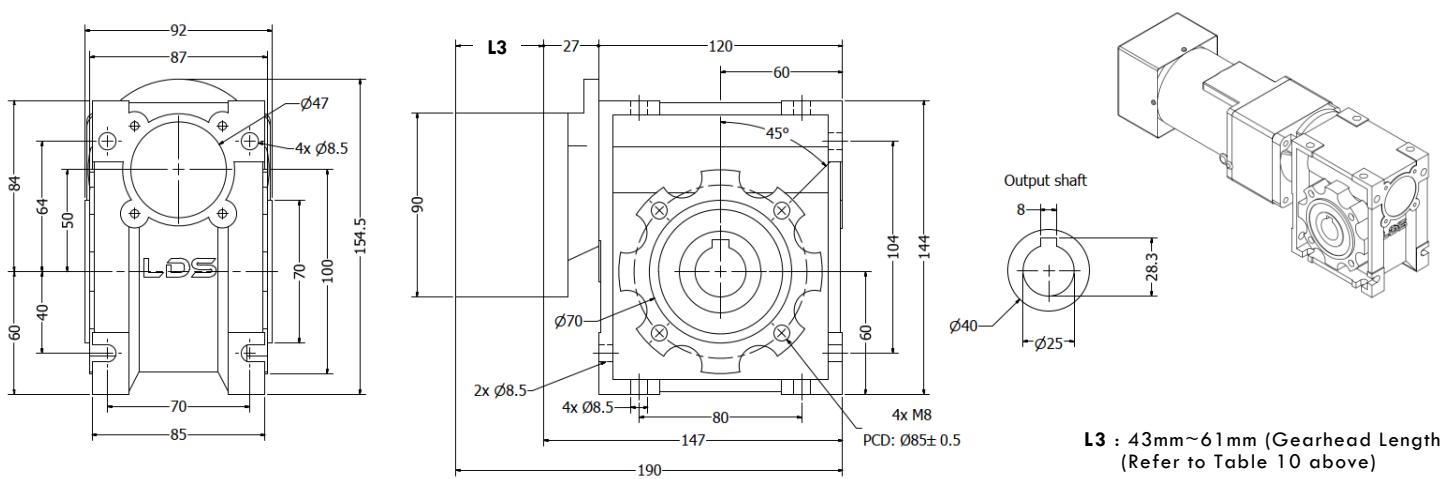
15 8MRV040-CG09 & 5GN~K-N
DMRS040-CG09 & 5GN~K-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-15-CG09 & 5GN-K-N ~ 8MRV040-80-CG09 & 5GN-K-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 19,200



16 8MRV050-CG09 & 5GU~KB-N
DMRS050-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-15-CG09 & 5GU-KB-N ~ 8MRV050-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000

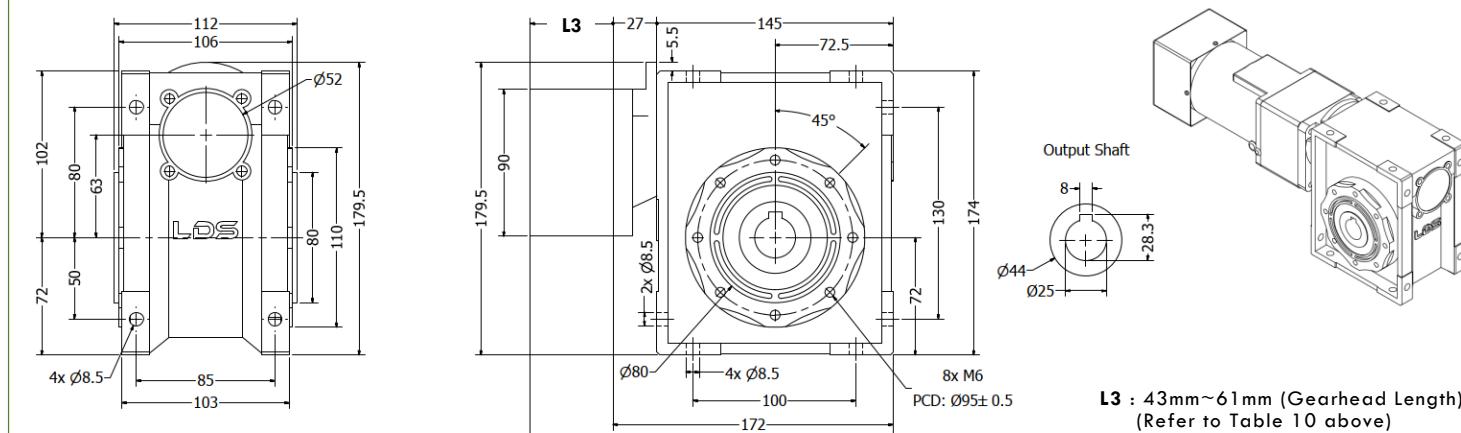


DIMENSION : COMPACT AC MOTOR

200W

17 8MRV063-CG09 & 5GU~KB-N
DMRS063-CG09 & 5GU~KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG09 & 5GU-KB-N ~ 8MRV063-100-CG09 & 5GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 24,000



DIMENSION : COMPACT AC MOTOR



6IK - 200W

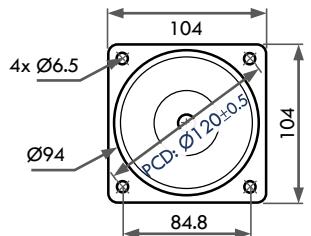
NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

1 MOTOR FRAME DIMENSION FOR ALL 200W MOTOR

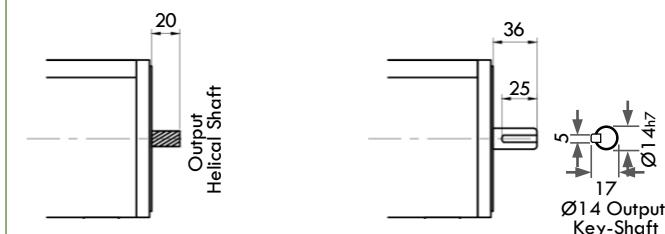
INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



2 MOTOR OUTPUT SHAFT TYPE FOR ALL 200W MOTOR

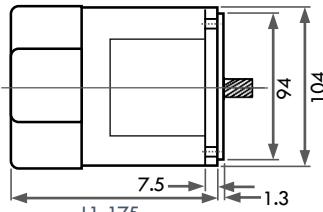
HELICAL-SHAFT (PINION-SHAFT)
6IK200GN/GX-□F
6IK200RGN/RGX-□F
6IK200VGN/VGX-□F
6RK200GN/GX-□F
6RK200RGN/RGX-□F

OUTPUT KEY-SHAFT
6IK200A-□F
6IK200RA-□F
6IK200VA-□F
6RK200A-□F
6RK200RA-□F



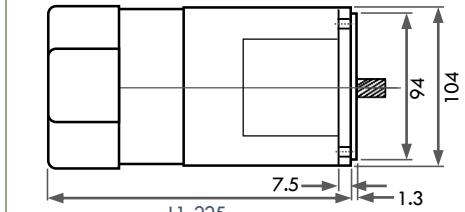
3 INDUCTION / ASYNCHRONOUS MOTOR 200W

6IK200GN-□F / 6IK200VGN-□F
REVERSIBLE MOTOR 200W
6RK200GN-□F



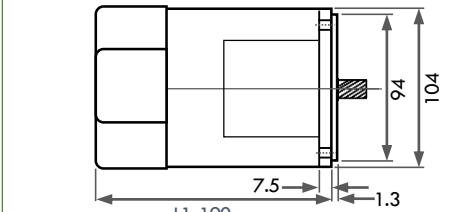
4 ELECTROMAGNETIC BRAKE MOTOR 200W

6IK200GN-□F-B / 6IK200VGN-□F-B
REVERSIBLE BRAKE MOTOR 200W
6RK200GN-□F-B



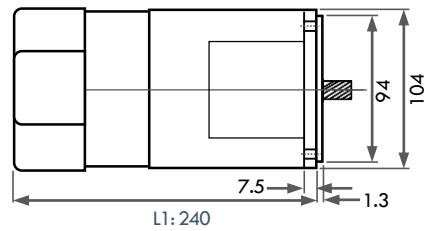
5 SPEED CONTROL MOTOR 200W

6IK200RGN-□F
REVERSIBLE SPEED CONTROL MOTOR 200W
6RK200RGN-□F



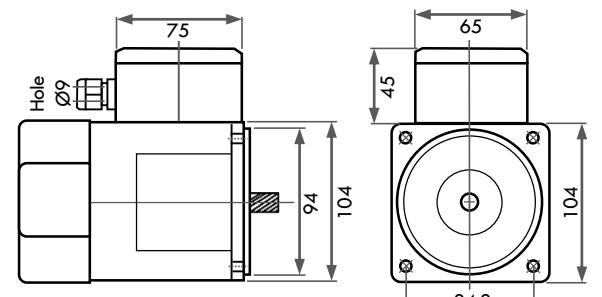
6 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 200W

6IK200RGN-□F-B
REVERSIBLE SPEED CONTROL
ELECTROMAGNETIC BRAKE MOTOR 200W
6RK200RGN-□F-B



7 MOTOR WITH TERMINAL BOX (IP44)

6IK200A-□FT
6IK200GN-□FT
6IK200VGN-□FT
6IK200RGN-□FT
6IK200GN-□FBT
6RK200A-□FT
6RK200GN-□FT
6RK200VGN-□FT
6RK200RGN-□FT
6RK200GN-□FBT

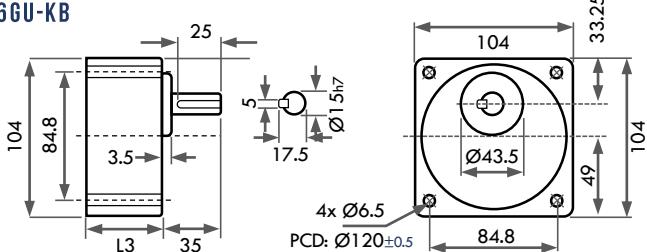


DIMENSION : COMPACT GEARHEAD

8 6GU-KB PARALLEL SHAFT GEARHEAD (OUTPUT SHAFT DIA. 15MM)

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		
6GU3KB ~ 6GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	53
6GU25KB ~ 6GU75KB	25, 30, 36, 50, 60, 75	61

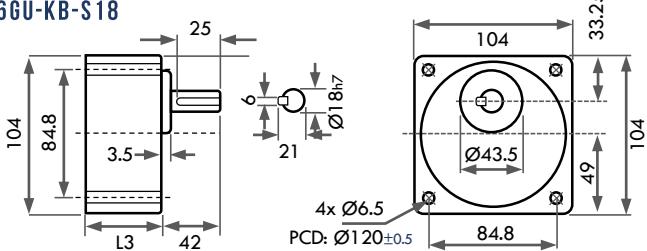
6GU-KB



9 6GU-KB-S18 PARALLEL SHAFT GEARHEAD (OUTPUT SHAFT DIA. 18MM)

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		
6GU3KB-S18 ~ 6GU18KB-S18	5, 6, 7.5, 9, 12.5, 15, 18	53
6GU25KB-S18 ~ 6GU75KB-S18	3, 25, 30, 36, 50, 60, 75	61
6GU90KB-S18 ~ 6GU180KB-S18	90, 100, 120, 150, 180	70

6GU-KB-S18



10 8MRV040-CM10

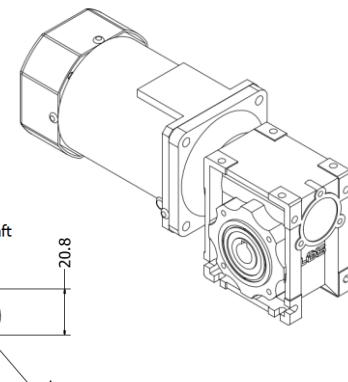
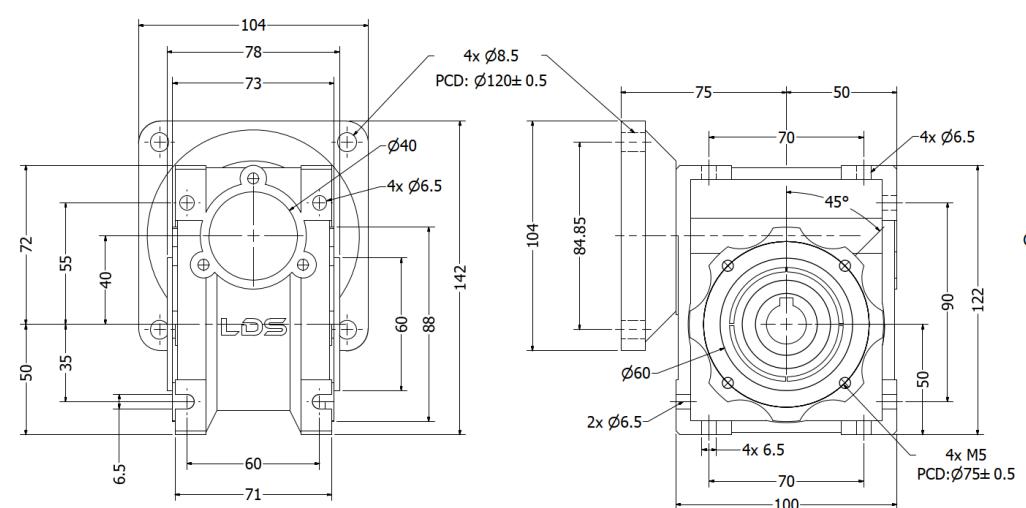
DMRS040-CM10
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE

GEAR RATIO (1/X)

8MRV040-5-CM10 ~ 8MRV040-80-CM10

5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



Unit of measurement : mm (millimeter)

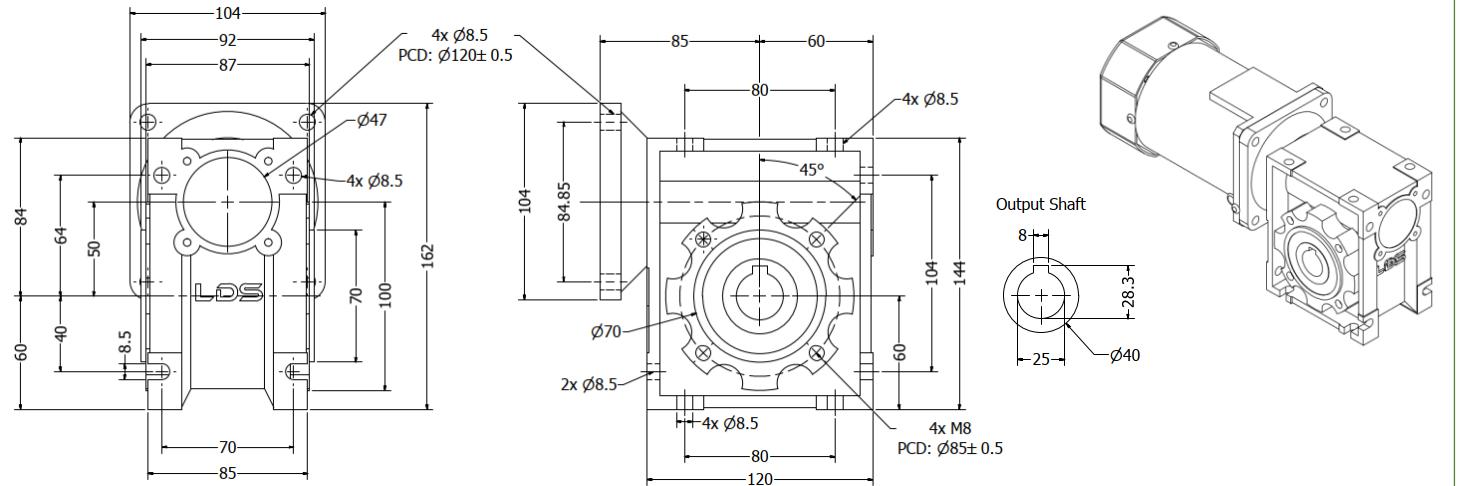
Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

6IK - 200W

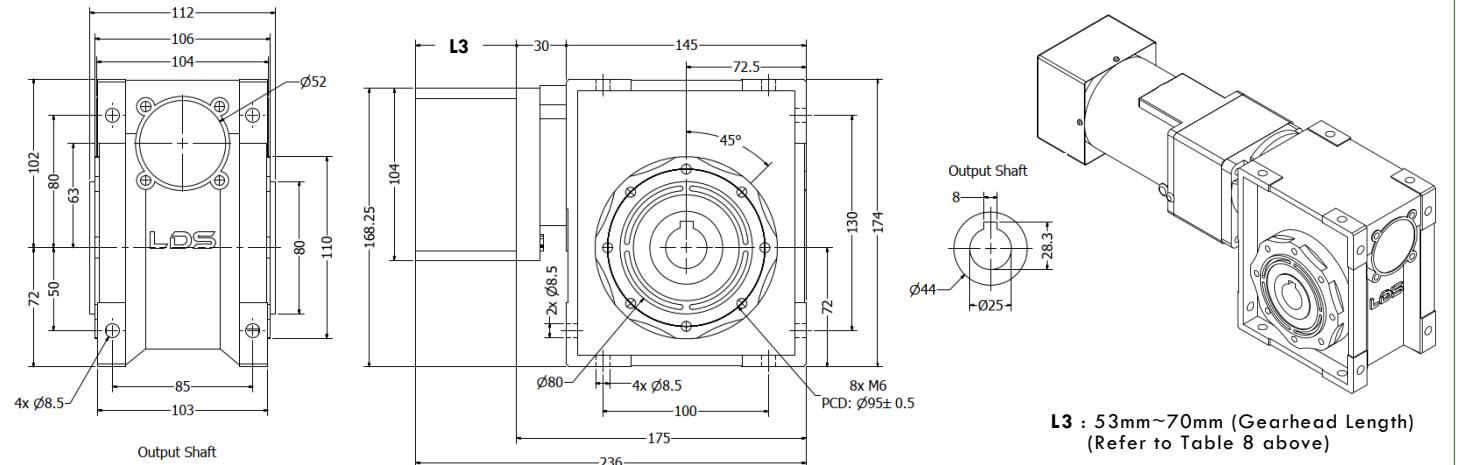
11 8MRV050-CM10
DMRS050-CM10
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-5-CM10 ~ 8MRV050-100-CM10	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100



12 8MRV063-CG10 & 6GU-KB-N
DMRS063-CG10 & 6GU-KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG10 & 6GU-KB-N ~ 8MRV063-100-CG10 & 6GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 18,000



Unit of measurement : mm (millimeter)

Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR



6IK - 250W

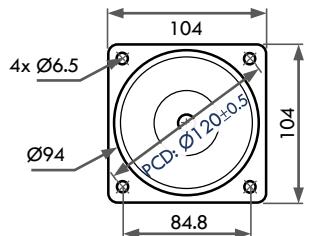
NOTE:

- INPUT VOLTAGE OF ELECTRIC MOTOR
 - C : 1PHASE 220V (50/60HZ)
 - C2 : 1PHASE 240V (50/60HZ)
 - S : 3PHASE 220V (50/60HZ)
 - S4 : 3PHASE 415V (50/60HZ)
 - TQ : 3PHASE 240/415V (50/60HZ)
 - U : 3PHASE 220/380V (50/60HZ)

L1 : BODY LENGTH OF STANDARD MOTOR

1 MOTOR FRAME DIMENSION FOR ALL 250W MOTOR

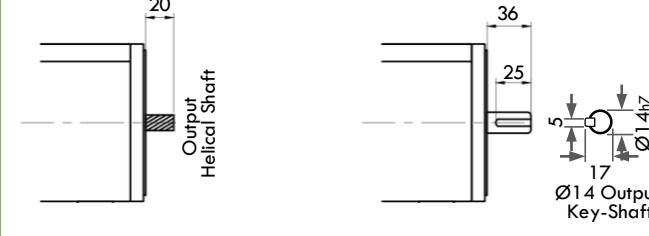
INDUCTION MOTOR
REVERSIBLE MOTOR
ELECTROMAGNETIC BRAKE MOTOR
CLUTCH & BRAKE MOTOR
SPEED CONTROL MOTOR



2 MOTOR OUTPUT SHAFT TYPE FOR ALL 250W MOTOR

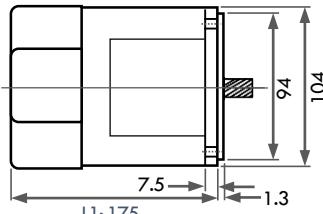
HELICAL-SHAFT (PINION-SHAFT)
6IK250GN/GX-□F
6IK250RGN/RGX-□F
6IK250VGN/VGX-□F
6RK250GN/GX-□F
6RK250RGN/RGX-□F

OUTPUT KEY-SHAFT
6IK250A-□F
6IK250RA-□F
6IK250VA-□F
6RK250A-□F
6RK250RA-□F



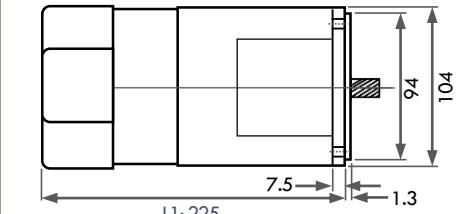
3 INDUCTION / ASYNCHRONOUS MOTOR 250W

6IK250GN-□F / 6IK250VGN-□F
REVERSIBLE MOTOR 250W
6RK250GN-□F



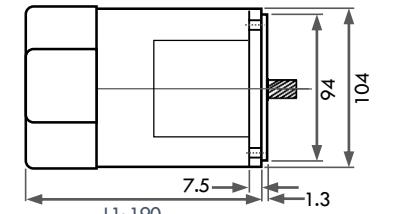
4 ELECTROMAGNETIC BRAKE MOTOR 250W

6IK250GN-□F-B / 6IK250VGN-□F-B
REVERSIBLE BRAKE MOTOR 250W
6RK250GN-□F-B



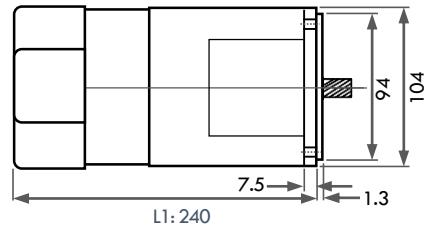
5 SPEED CONTROL MOTOR 250W

6IK250RGN-□F
REVERSIBLE SPEED CONTROL MOTOR 250W
6RK250RGN-□F



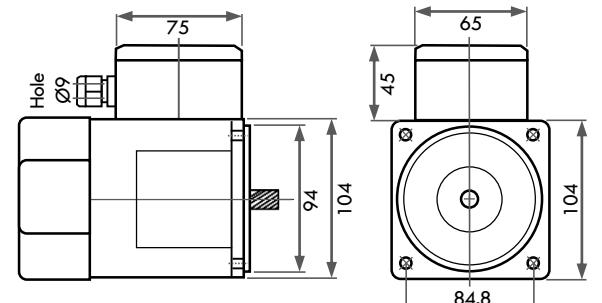
6 SPEED CONTROL ELECTROMAGNETIC BRAKE MOTOR 250W

6IK250RGN-□F-B
REVERSIBLE SPEED CONTROL
ELECTROMAGNETIC BRAKE MOTOR 250W
6RK250RGN-□F-B



7 MOTOR WITH TERMINAL BOX (IP44)

6IK250A-□FT
6IK250GN-□FT
6IK250VGN-□FT
6IK250RGN-□FT
6IK250GN-□FBT
6RK250A-□FT
6RK250GN-□FT
6RK250VGN-□FT
6RK250RGN-□FT
6RK250GN-□FBT

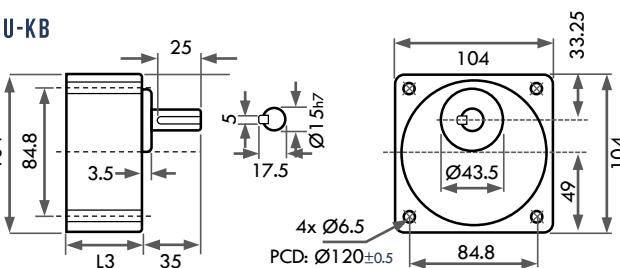


DIMENSION : COMPACT GEARHEAD

8 6GU-KB PARALLEL SHAFT GEARHEAD (OUTPUT SHAFT DIA. 15MM)

PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		
6GU3KB ~ 6GU18KB	3, 5, 6, 7.5, 9, 12.5, 15, 18	53
6GU25KB ~ 6GU75KB	25, 30, 36, 50, 60, 75	61

6GU-KB

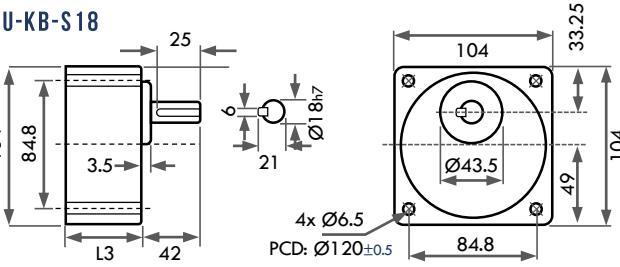


6IK - 250W

9 6GU-KB-S18 PARALLEL SHAFT GEARHEAD (OUTPUT SHAFT DIA. 18MM)

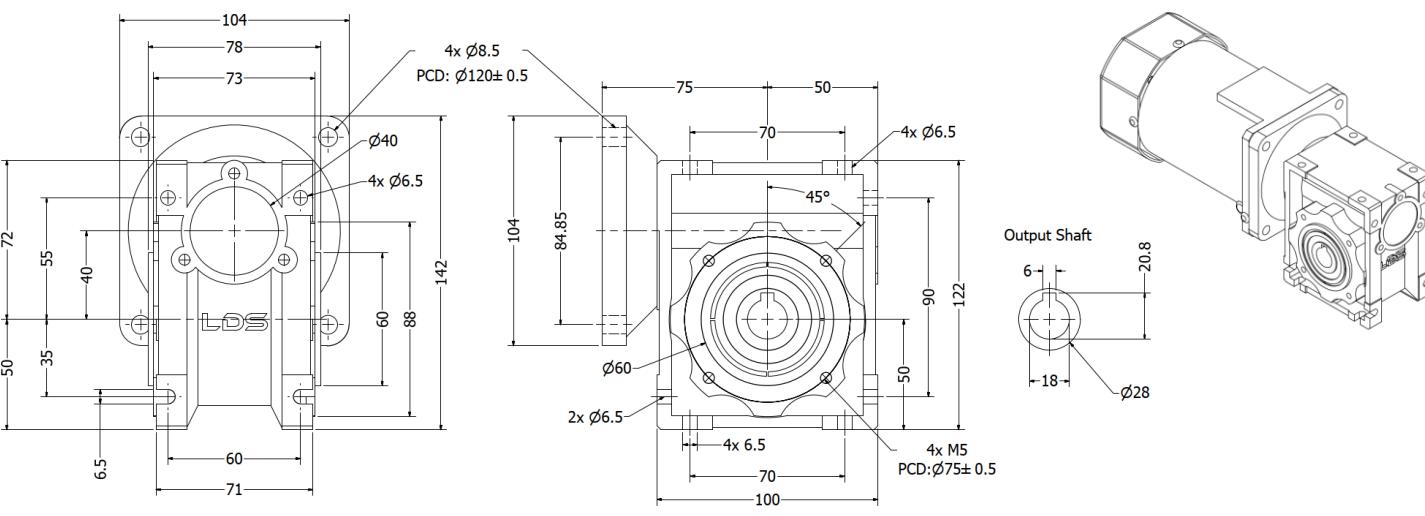
PRODUCT CODE	GEAR REDUCTION RATIO (1/X)	L3
SINGLE GEARHEAD		
6GU3KB-S18 ~ 6GU18KB-S18	5, 6, 7.5, 9, 12.5, 15, 18	53
6GU25KB-S18 ~ 6GU75KB-S18	3, 25, 30, 36, 50, 60, 75	61
6GU90KB-S18 ~ 6GU180KB-S18	90, 100, 120, 150, 180	70

6GU-KB-S18



10 8MRV040-CM10 HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV040-5-CM10 ~ 8MRV040-80-CM10	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80



Unit of measurement : mm (millimeter)

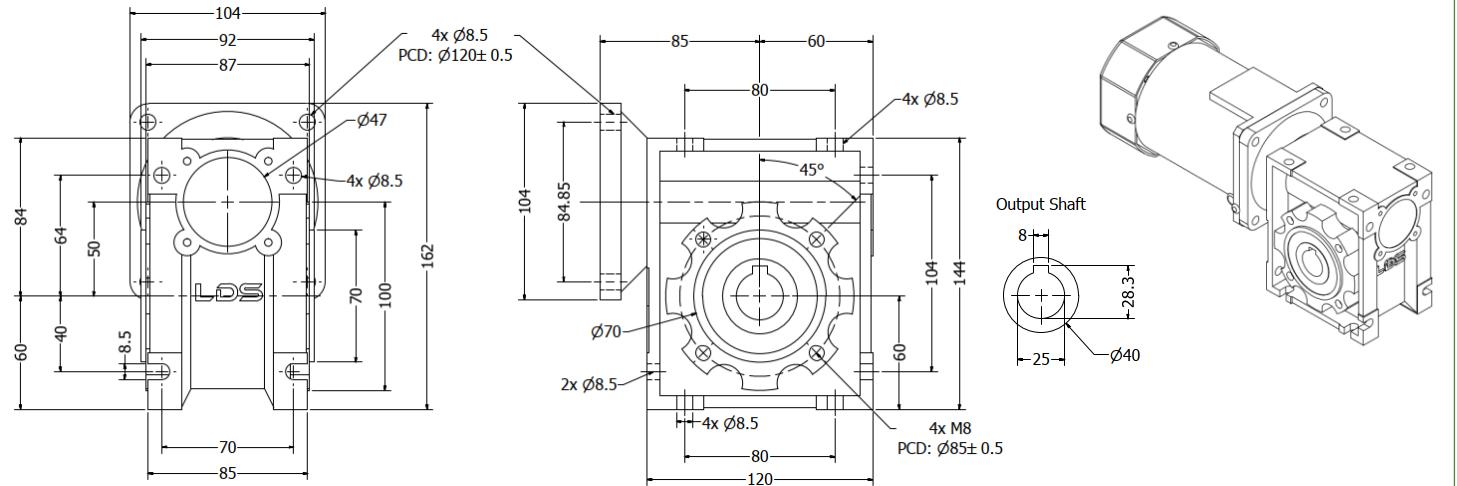
Unit of measurement : mm (millimeter)

DIMENSION : COMPACT AC MOTOR

6IK - 250W

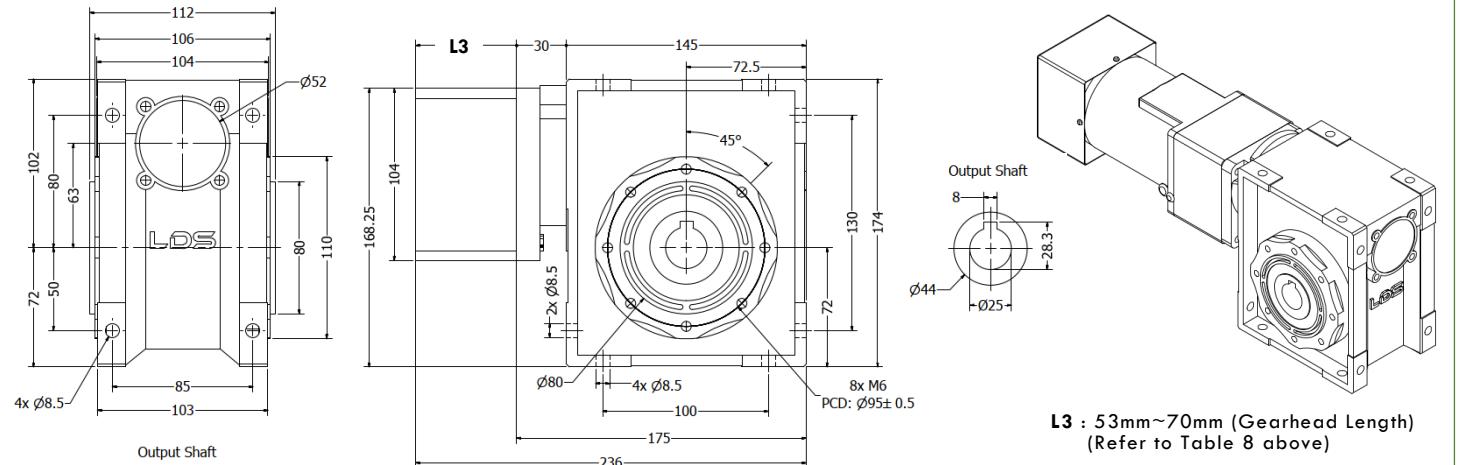
11 8MRV050-CM10
DMRS050-CM10
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV050-5-CM10 ~ 8MRV050-100-CM10	5, 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100



12 8MRV063-CG10 & 6GU-KB-N
DMRS063-CG10 & 6GU-KB-N
HOLLOW SHAFT WORM GEARHEAD

PRODUCT CODE	GEAR RATIO (1/X)
8MRV063-15-CG10 & 6GU-KB-N ~ 8MRV063-100-CG10 & 6GU-KB-N	75, 100, 125, 135, 150, 180, 225, 270, 375, 450 ~ 18,000



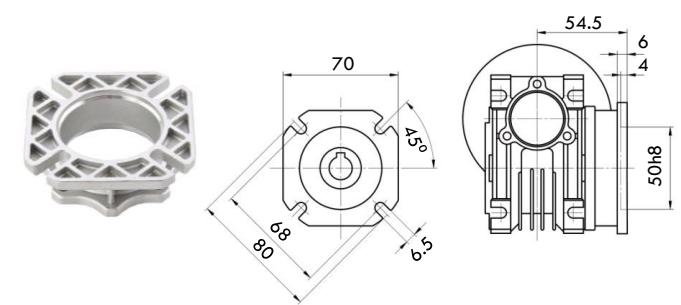
Unit of measurement : mm (millimeter)

Unit of measurement : mm (millimeter)

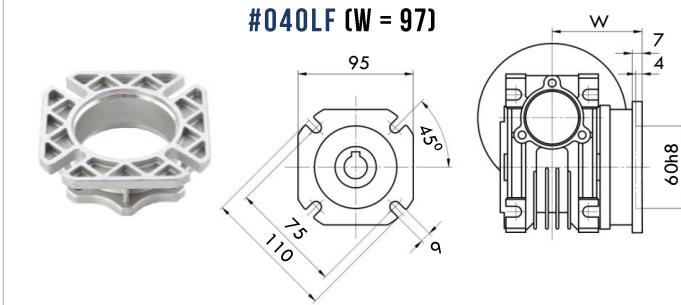
DIMENSION : ACCESSORIES OF COMPACT GEAR MOTOR

OUTPUT FLANGE FOR ALUMINIUM WORM GEAR REDCER

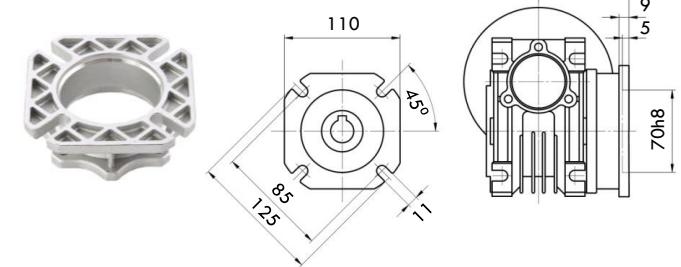
OUTPUT FLANGE : #030F



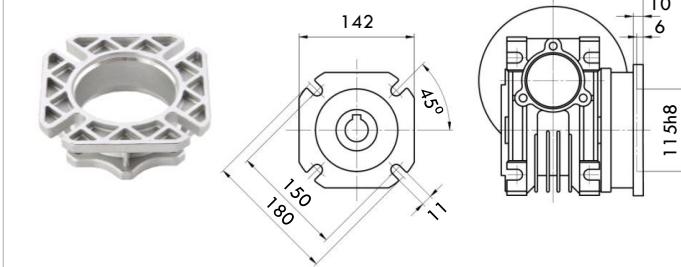
OUTPUT FLANGE : #040F (W = 67)
#040LF (W = 97)



OUTPUT FLANGE : #050F (W = 90) -
#050LF (W = 120)

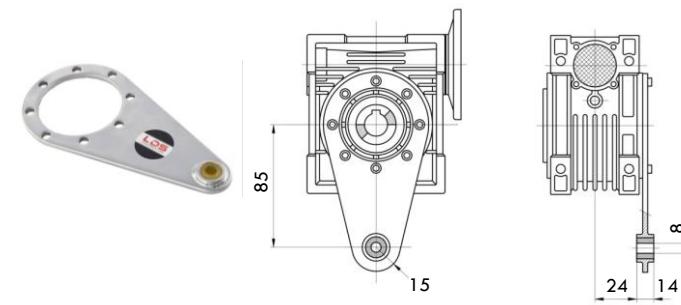


OUTPUT FLANGE : #063F (W = 82)
#063LF (W = 112)

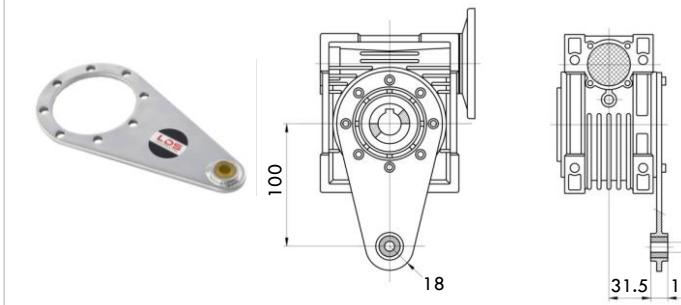


TORQUE ARM FOR ALUMINIUM WORM GEAR REDCER

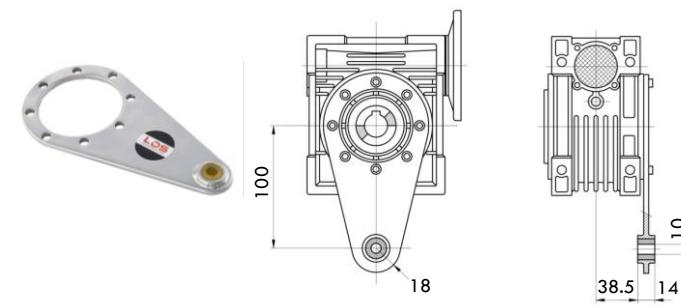
TORQUE ARM : #030TA



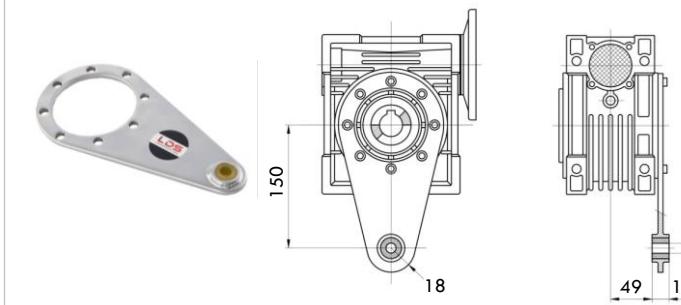
TORQUE ARM : #040TA



TORQUE ARM : #050TA



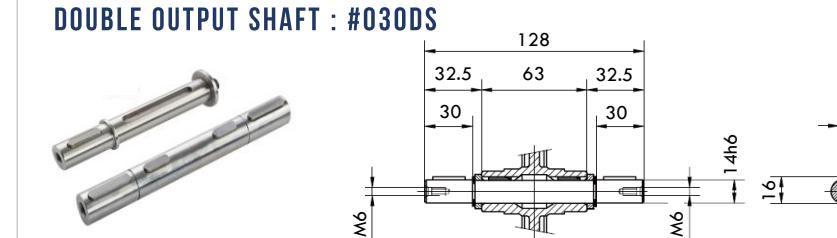
TORQUE ARM : #063TA



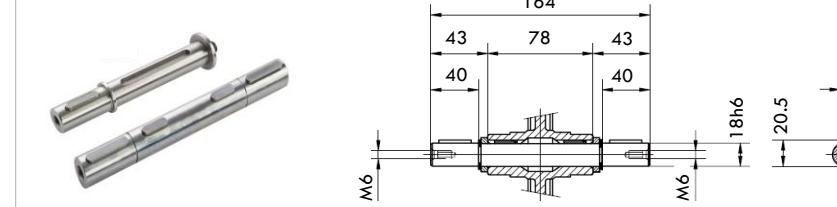
DIMENSION : ACCESSORIES OF COMPACT GEAR MOTOR

LOW SPEED OUTPUT SHAFT FOR ALUMINIUM WORM GEAR REDCER

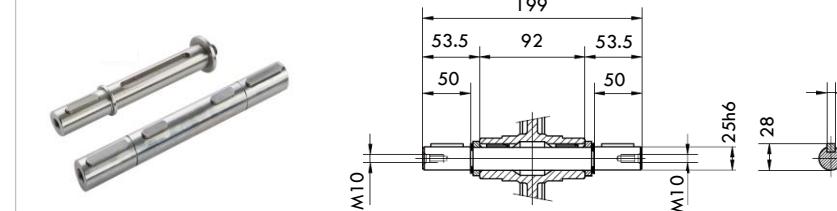
SINGLE OUTPUT SHAFT : #030SS
DOUBLE OUTPUT SHAFT : #030DS



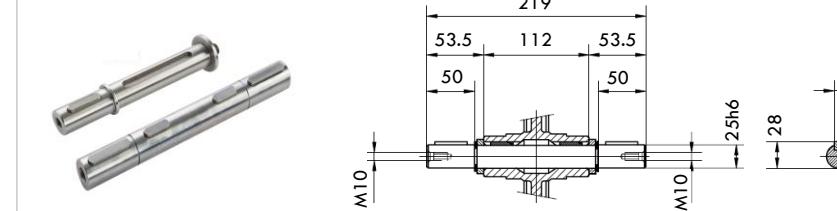
SINGLE OUTPUT SHAFT : #040SS
DOUBLE OUTPUT SHAFT : #040DS



SINGLE OUTPUT SHAFT : #050SS
DOUBLE OUTPUT SHAFT : #050DS



SINGLE OUTPUT SHAFT : #063SS
DOUBLE OUTPUT SHAFT : #063DS

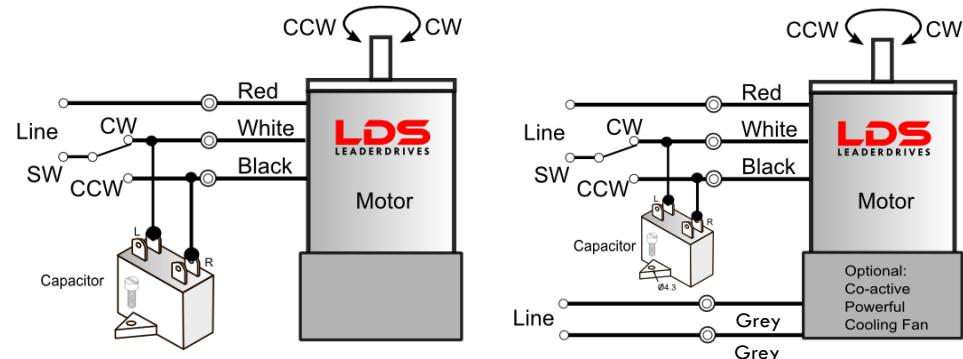


CONNECTION DIAGRAM

INDUCTION MOTOR ▪ REVERSIBLE MOTOR (1PHASE)

Motor Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V
Coactive Fan Input Voltage : AC 100~110V • AC 220~240V

Direction of Rotation:
To change the rotation, switch to CW or CCW connection.

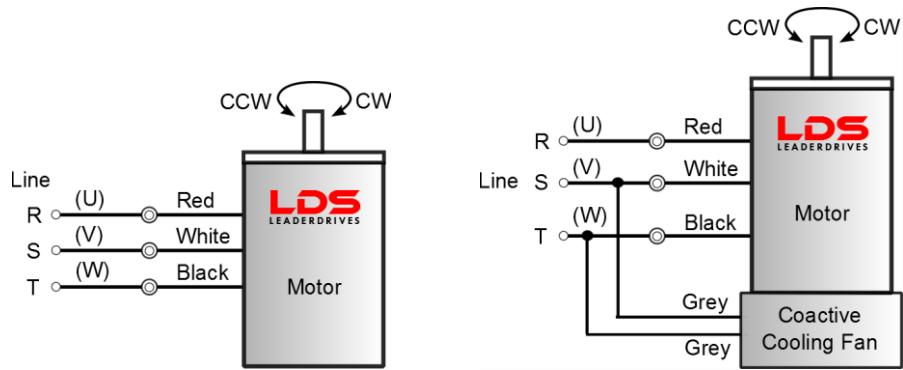


INDUCTION MOTOR (3PHASE)

Motor Input Voltage : AC 3Ø 220~240V
Coactive Fan Input Voltage : AC 220~240V

Direction of Rotation:
To change the rotation, exchange any two wires between U, V and W.

* If the motor is powered by an inverter or electronic soft starter, use separate Power Supply 220V to connect to the Coactive Cooling Fan.

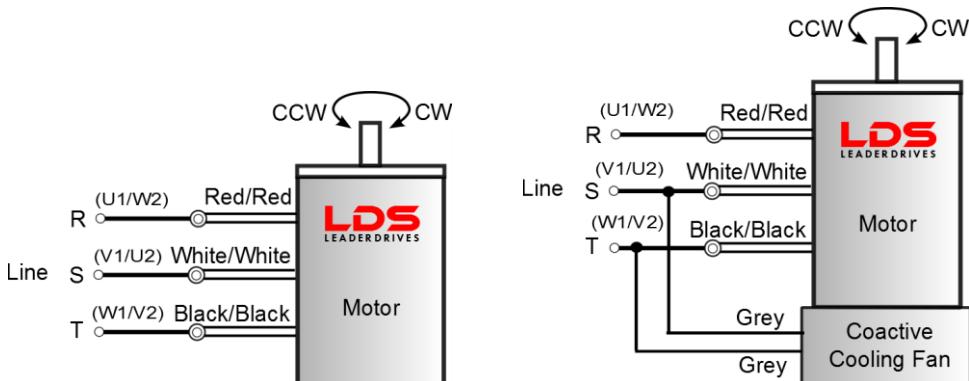


INDUCTION MOTOR (3PHASE - 6 WIRES)

Motor Input Voltage : AC 3Ø 220~240V
Coactive Fan Input Voltage : AC 3Ø 220~240V

Direction of Rotation:
To change the rotation, exchange any two wires between U1/W2, V1/U2, and W1/V2.

* If the motor is powered by an inverter or electronic soft starter, use separate Power Supply 220V to connect to the Coactive Cooling Fan.



Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

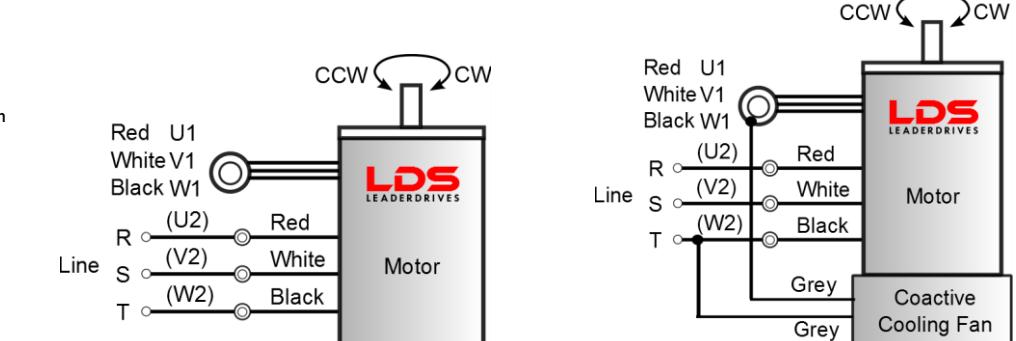
CONNECTION DIAGRAM

INDUCTION MOTOR (3PHASE - 6 WIRES)

Motor Input Voltage : AC 3Ø 380~415V
Coactive Fan Input Voltage : AC 3Ø 220~240V

Direction of Rotation:
To change the rotation, exchange any two wires between U2, V2 and W2.

* If the motor is powered by an inverter or electronic soft starter, use separate Power Supply 220V to connect to the Coactive Cooling Fan.

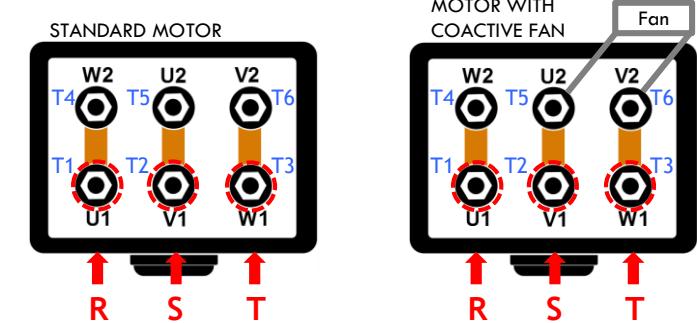


INDUCTION MOTOR WITH TERMINAL BOX (3PHASE)

Motor Input Voltage : AC 3Ø 220~240V
Coactive Fan Input Voltage : AC 220~240V

Direction of Rotation:
To change the rotation, exchange any two wires between U1, V1 and W1.

* If the motor is powered by an inverter or electronic soft starter, use separate Power Supply 220V to connect to the Coactive Cooling Fan.

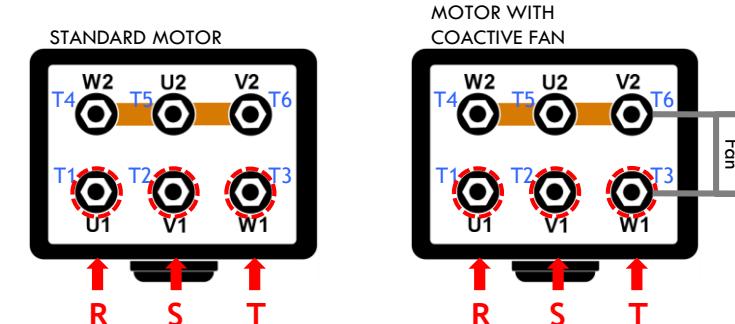


INDUCTION MOTOR WITH TERMINAL BOX (3PHASE)

Motor Input Voltage : AC 3Ø 380~415V
Coactive Fan Input Voltage : AC 220~240V

Direction of Rotation:
To change the rotation, exchange any two wires between U1, V1 and W1.

* If the motor is powered by an inverter or electronic soft starter, use separate Power Supply 220V to connect to the Coactive Cooling Fan.



Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

CONNECTION DIAGRAM

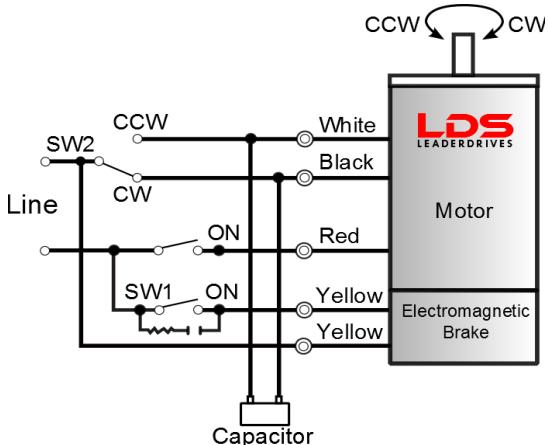
ELECTROMAGNETIC BRAKE MOTOR REVERSIBLE ELECTROMAGNETIC BRAKE MOTOR (1PHASE)

Motor Input Voltage : AC 1Ø 100~110V •
AC 1Ø 220~240V

Brake Input Voltage : AC 100~110V •
AC 220~240V
(Build-in AC to DC Rectifier Included)

Operation :
Run/Stop: SW 1 operates motor and electromagnetic brake action. Motor will rotate when SW1 is switched to ON (short circuit). When SW1 is switched to OFF (open), the motor stopped immediately by the electromagnetic brake and holds the load.

To release the brake while the motor is stopped, apply voltage between only two brake lead wires (yellow). The electromagnetic brake is release and the motor shaft can be rotated easily by hand.



ELECTROMAGNETIC BRAKE MOTOR (3PHASE)

Motor Input Voltage : AC 3Ø 220~240V

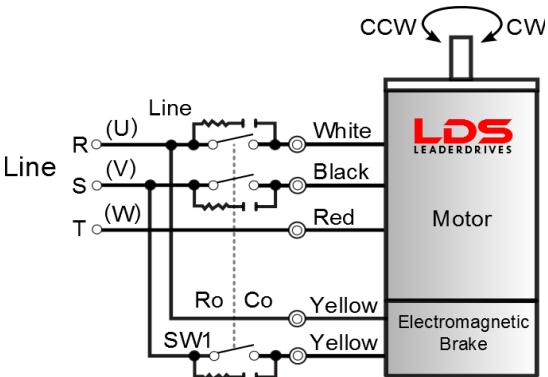
Brake Input Voltage : AC 220~240V (Build-in AC to DC Rectifier Included)

Operation :
Run/Stop: SW 1 operates motor and electromagnetic brake action. Motor will rotate when SW1 is switched to ON (short circuit). When SW1 is switched to OFF (open), the motor stopped immediately by the electromagnetic brake and holds the load.

To release the brake while the motor is stopped, apply voltage between only two brake lead wires (yellow). The electromagnetic brake is release and the motor shaft can be rotated easily by hand.

Direction of Rotation: To change the rotation, exchange any two wires between U, V and W.

* If the motor is powered by an inverter or electronic soft starter, use Relay or separate Power Supply 220V for Brake Rectifier.



ELECTROMAGNETIC BRAKE MOTOR (3PHASE – 6 WIRES)

Motor Input Voltage : AC 3Ø 380~415V

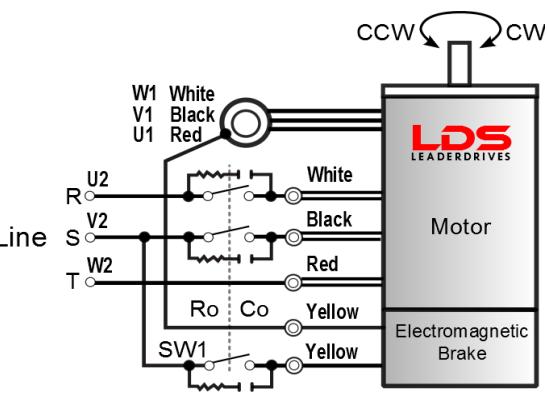
Brake Input Voltage : AC 220~240V
(Build-in AC to DC Rectifier Included)

Operation :
Run/Stop: SW 1 operates motor and electromagnetic brake action. Motor will rotate when SW1 is switched to ON (short circuit). When SW1 is switched to OFF (open), the motor stopped immediately by the electromagnetic brake and holds the load.

To release the brake while the motor is stopped, apply voltage between only two brake lead wires (yellow). The electromagnetic brake is release and the motor shaft can be rotated easily by hand.

Direction of Rotation: To change the rotation, exchange any two wires between U2, V2 and W2.

* If the motor is powered by an inverter or electronic soft starter, use Relay or separate Power Supply 220V for Brake Rectifier.



Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

CONNECTION DIAGRAM

ELECTROMAGNETIC BRAKE MOTOR TERMINAL BOX (3PHASE)

Motor Input Voltage : AC 3Ø 220~240V

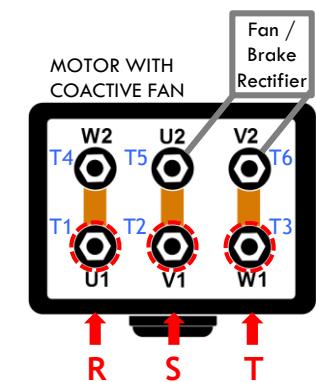
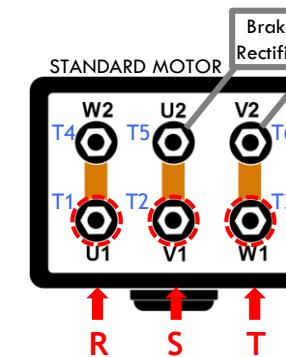
Brake Input Voltage : AC 220~240V
(Build-in AC to DC Rectifier Included)

Coactive Fan Input Voltage : AC 220~240V

Direction of Rotation:

To change the rotation, exchange any two wires between U1, V1 and W1.

* If the motor is powered by an inverter or electronic soft starter, use Relay or separate Power Supply 220V for Brake Rectifier.



ELECTROMAGNETIC BRAKE MOTOR TERMINAL BOX (3PHASE)

Motor Input Voltage : AC 3Ø 380~415V

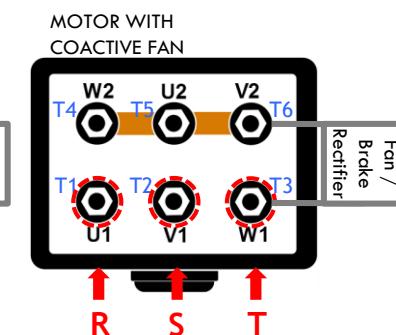
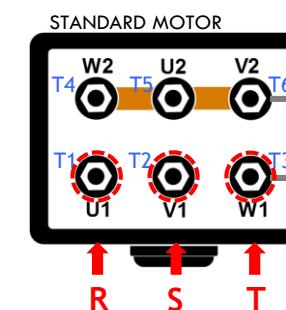
Brake Input Voltage : AC 220~240V
(Build-in AC to DC Rectifier Included)

Coactive Fan Input Voltage : AC 220~240V

Direction of Rotation:

To change the rotation, exchange any two wires between U1, V1 and W1.

* If the motor is powered by an inverter or electronic soft starter, use Relay or separate Power Supply 220V for Brake Rectifier.



Operation :

Run/Stop: The brake systems are wired to the motor terminal block. When power is applied to the motor, the brake release (the motor stopped immediately by the electromagnetic brake and holds the load).

To release the brake while the motor is stopped, apply voltage between only two brake lead wires (yellow). The electromagnetic brake is release and the motor shaft can be rotated easily by hand.

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.

CONNECTION DIAGRAM

CLUTCH & BRAKE MOTOR (1PHASE)

Motor Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V

Clutch & Brake Input Voltage : DC 24V

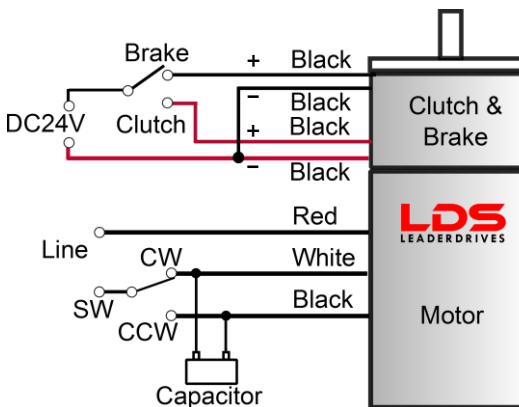
Operation:

Use separate power supply for the motor (AC) and the clutch and brake (AC to DC).

When the motor is rotating, connect the switch to the clutch, the output shaft will start rotating and transmits power accordingly.

When the motor is rotating, connect the switch to the brake, it will stop instantly and hold great retention force.

When the DC power is off, the output shaft can rotate freely.



CLUTCH & BRAKE MOTOR (3PHASE)

Motor Input Voltage : AC 3Ø 220~240V

Clutch & Brake Input Voltage : DC 24V

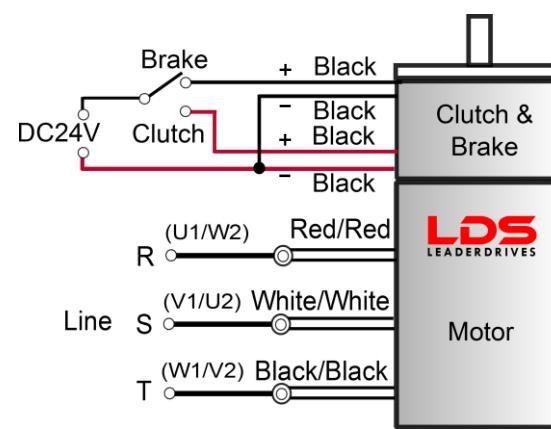
Operation:

Use separate power source for the motor (AC) and the clutch and brake (AC to DC).

When the motor is rotating, connect the switch to the clutch, the output shaft will start rotating and transmits power accordingly.

When the motor is rotating, connect the switch to the brake, it will stop instantly and hold great retention force.

When the DC power is off, the output shaft can rotate freely.



CLUTCH & BRAKE MOTOR (3PHASE)

Motor Input Voltage : AC 3Ø 380~415V

Clutch & Brake Input Voltage : DC 24V

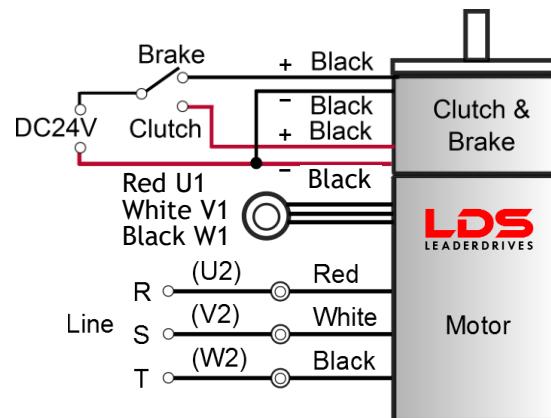
Operation:

Use separate power source for the motor (AC) and the clutch and brake (AC to DC).

When the motor is rotating, connect the switch to the clutch, the output shaft will start rotating and transmits power accordingly.

When the motor is rotating, connect the switch to the brake, it will stop instantly and hold great retention force.

When the DC power is off, the output shaft can rotate freely.



CONNECTION DIAGRAM

VARIABLE SPEED MOTOR WITH USM TYPE SPEED CONTROLLER (1PHASE)

Motor Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V

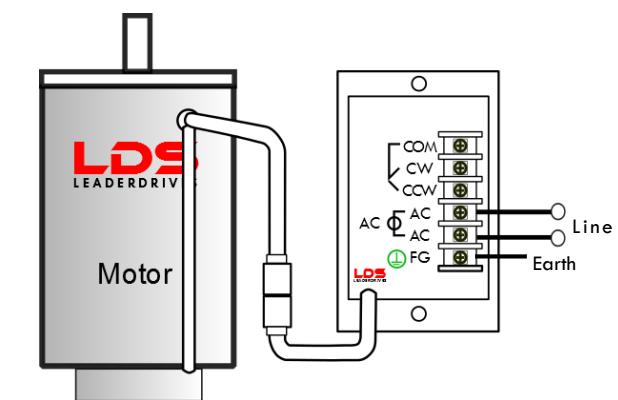
Controller Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V

Operation:

Connect the motor lead wires connectors to the control unit (speed controller). Then connect the power cord to the power source.

Direction of Rotation:

To change the rotation, switch COM-CW to COM-CCW connection, and vice versa.



VARIABLE SPEED MOTOR WITH ELECTROMAGNETIC BRAKE AND USM TYPE SPEED CONTROLLER (1PHASE)

Motor Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V

Controller Input Voltage : AC 1Ø 100~110V • 1Ø 220~240V

Brake Input Voltage : AC 100~110V • 220~240V
(Build-in AC to DC Rectifier Included)

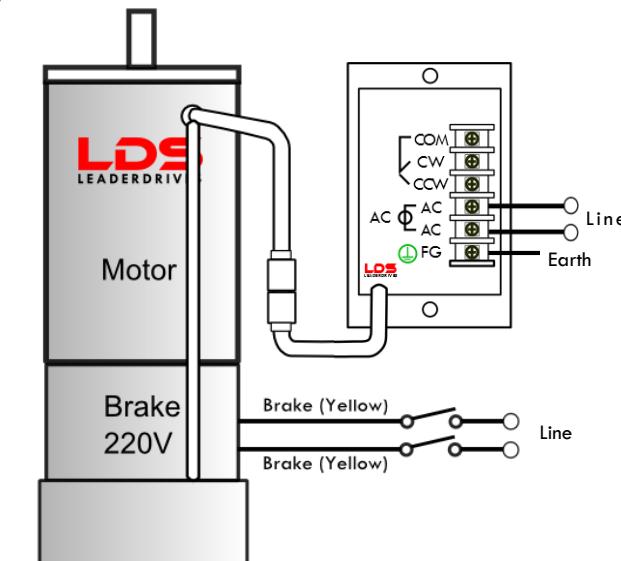
Operation:

Connect the motor lead wires connectors to the control unit (speed controller). Then connect the power cord to the power source.

Use Relay or separate Power Supply 110V/220V for the Brake Rectifier (Yellow Wire).

Direction of Rotation:

To change the rotation, switch COM-CW to COM-CCW connection, and vice versa.



CONNECTION DIAGRAM

VARIABLE SPEED MOTOR WITH DIN RAIL TYPE SPEED CONTROLLER SS ■ SD SERIES (8 PIN, 1PHASE)

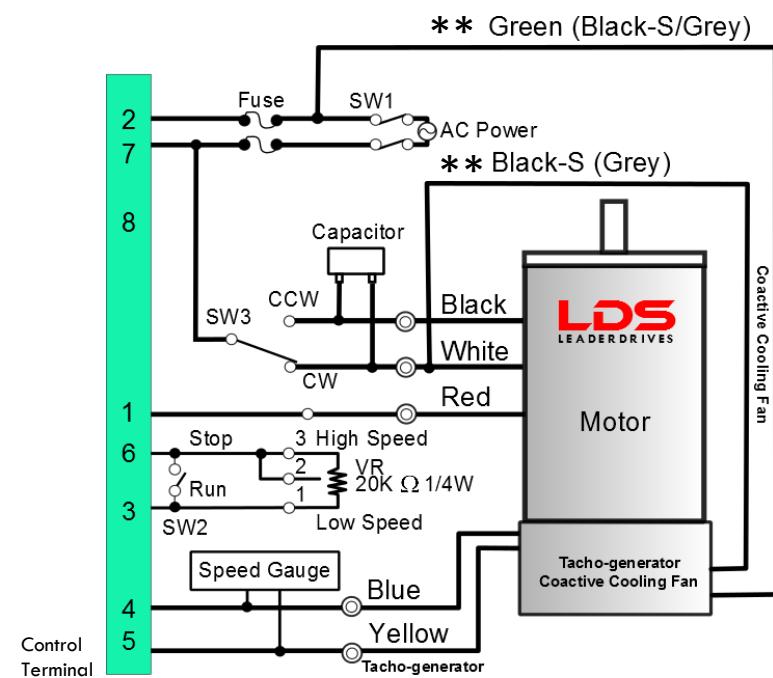
Motor Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Controller Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Direction of Rotation:

To change the rotation, switch to CW or CCW connection (SW3).

** Connect Green wire and Black-S wire to respective terminal if u use LDS Extension Cable.



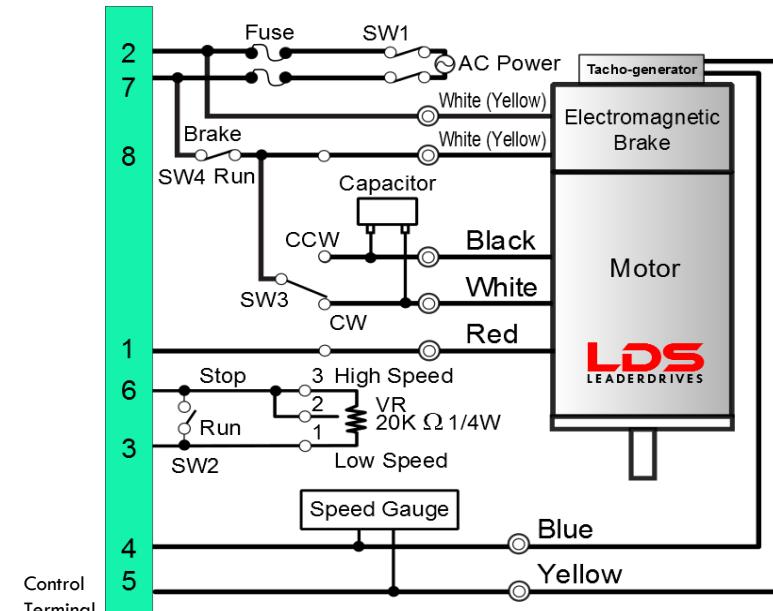
VARIABLE SPEED MOTOR WITH ELECTROMAGNETIC BRAKE AND DIN RAIL TYPE SPEED CONTROLLER SS ■ SD SERIES (8 PIN, 1PHASE)

Motor Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Controller Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Brake Input Voltage :
AC 100~110V •
AC 220~240V
(Build-in AC to DC Rectifier Included)

Direction of Rotation:
To change the rotation, switch to CW or CCW connection (SW3).



CONNECTION DIAGRAM

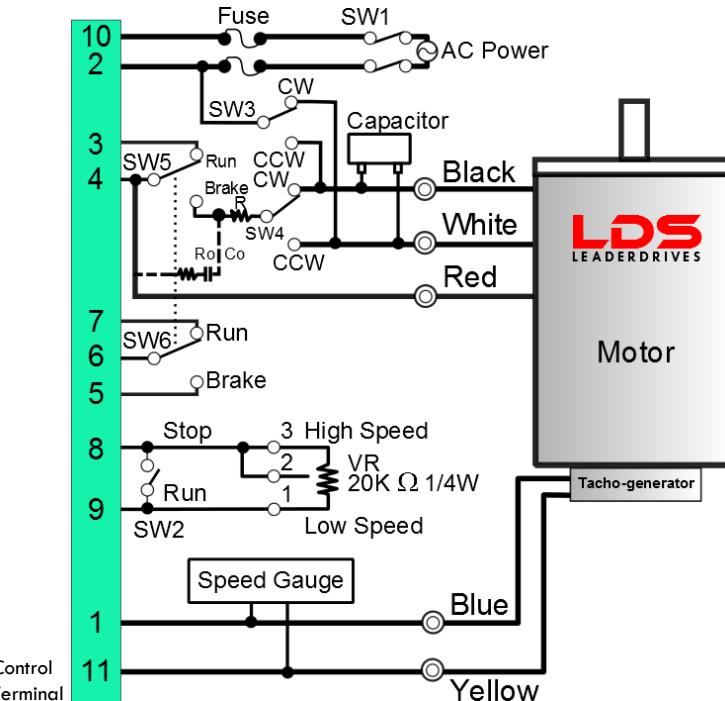
VARIABLE SPEED MOTOR WITH BRAKE PACK SS31 ■ SS32 SERIES (11 PIN, 1PHASE)

Motor Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Controller Input Voltage :
AC 1Ø 100~110V
AC 1Ø 220~240V

Direction of Rotation:

To change the rotation, switch to CW or CCW connection (SW3).



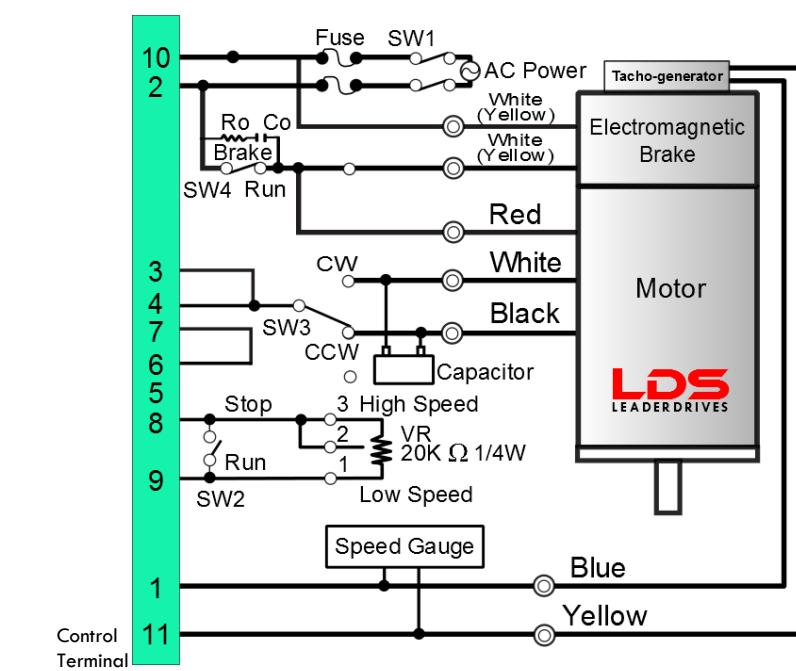
VARIABLE SPEED MOTOR WITH ELECTROMAGNETIC BRAKE AND BRAKE PACK SS31 ■ SS32 SERIES (11 PIN, 1PHASE)

Motor Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Controller Input Voltage :
AC 1Ø 100~110V •
AC 1Ø 220~240V

Brake Input Voltage :
AC 100~110V •
AC 220~240V
(Build-in AC to DC Rectifier Included)

Direction of Rotation:
To change the rotation, switch to CW or CCW connection (SW3).



CONNECTION DIAGRAM

ASYNCHRONOUS MOTOR (3PHASE) WITH COMPACT IGBT INVERTER (1PHASE)

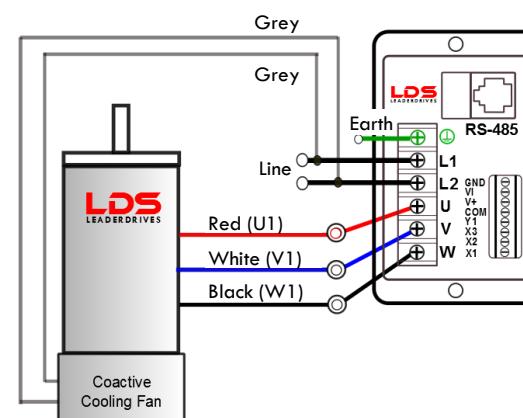
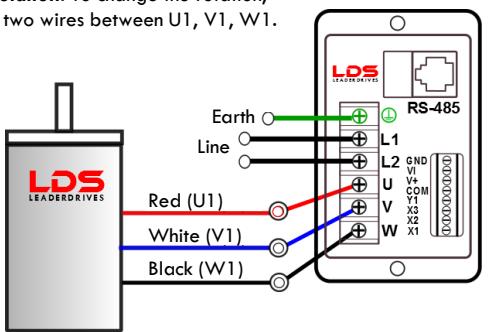
Motor Input Voltage : AC 3Ø 220~240V

Inverter Input Voltage : AC 1Ø 220~240V

Coactive Fan Input Voltage : AC 220~240V

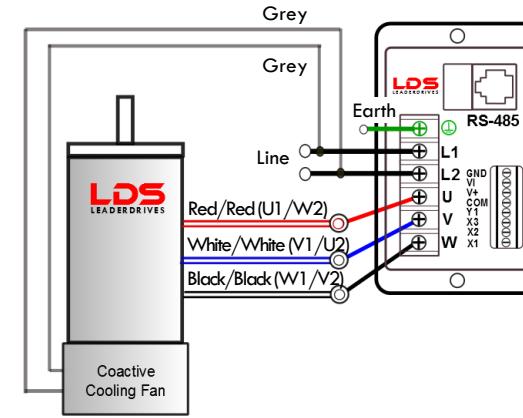
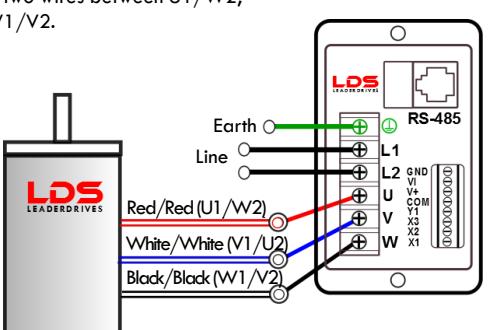
MOTOR WITH 3 LEADWIRIES

Direction of Rotation: To change the rotation, exchange any two wires between U1, V1, W1.

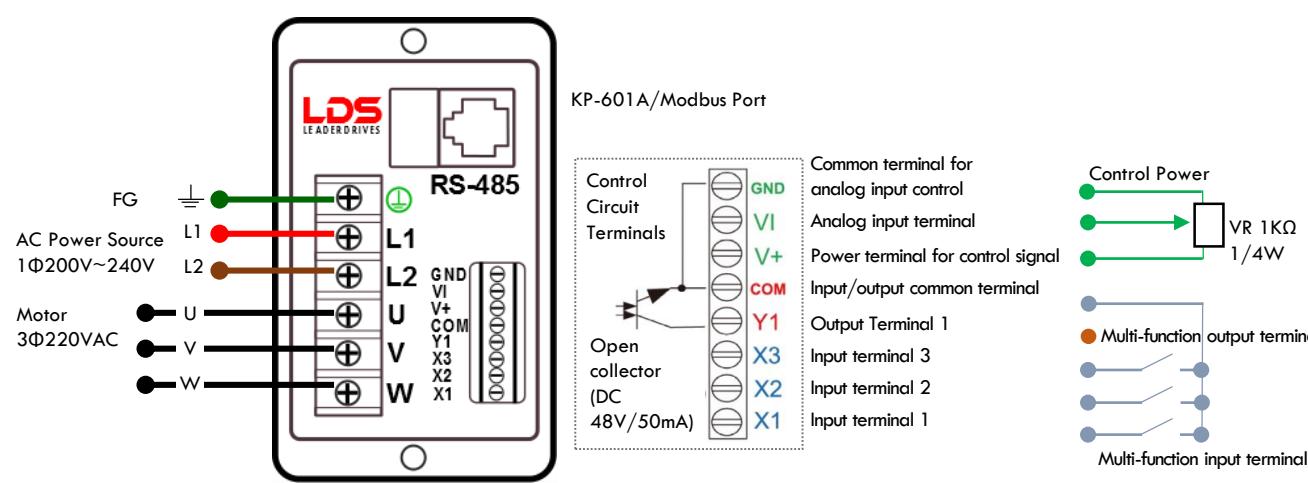


MOTOR WITH 6 LEADWIRIES

Direction of Rotation: To change the rotation, exchange any two wires between U1/W2, V1/U2 and W1/V2.



COMPACT IGBT INVERTER (1PHASE) MAIN CONTROL CIRCUIT TERMINALS



* Use Relay or separate Power Supply 220V for Brake Rectifier and Coactive Cooling Fan.

Note: The contents of this data sheet are subject to change without prior notice for the purpose of continuous product improvement.