

INDUCTION MOTORS

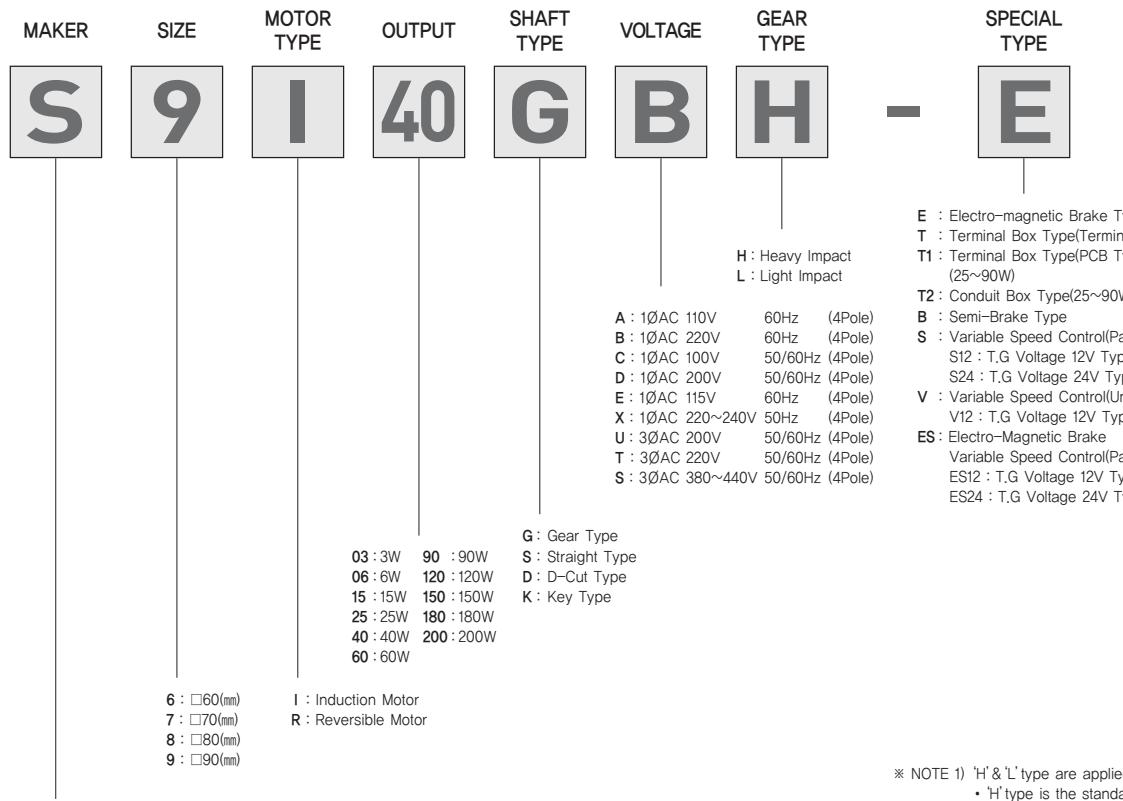
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CODING SYSTEM

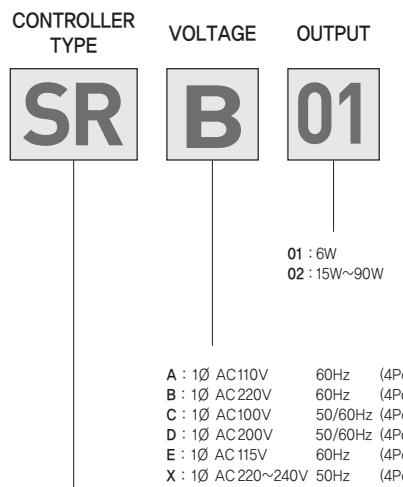
MOTOR



※ NOTE 1) 'H' & 'L' type are applied to over 40W.
 • 'H' type is the standard for over 60W.
 • 'L' type is the standard for over 40W.

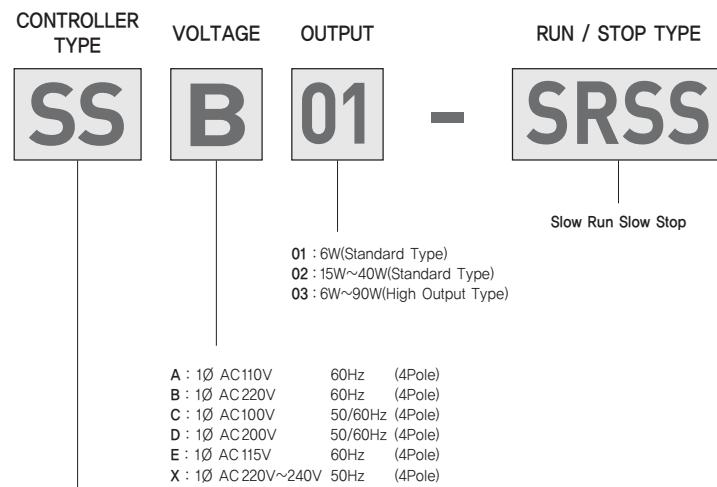
※ NOTE 2) Key Type are applied to over □80 15W

SPEED CONTROLLER (SR PACK TYPE)

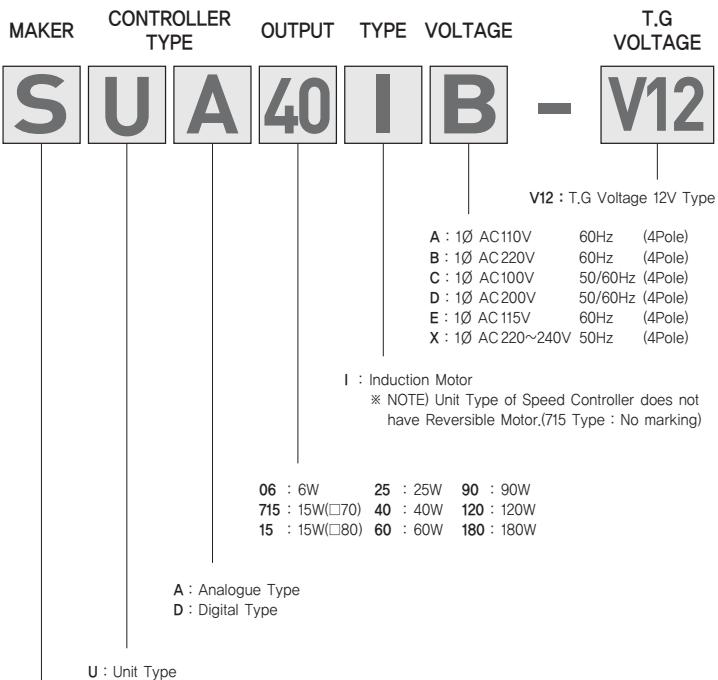


※ NOTE) The applicable motor is for T.G. 12V.

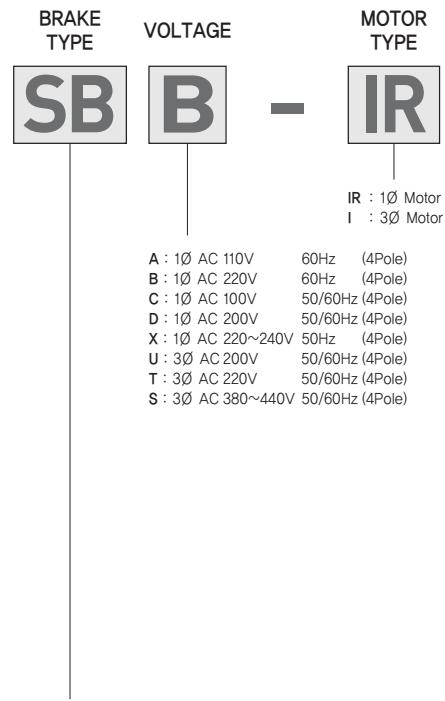
SPEED CONTROLLER (SS PACK TYPE)



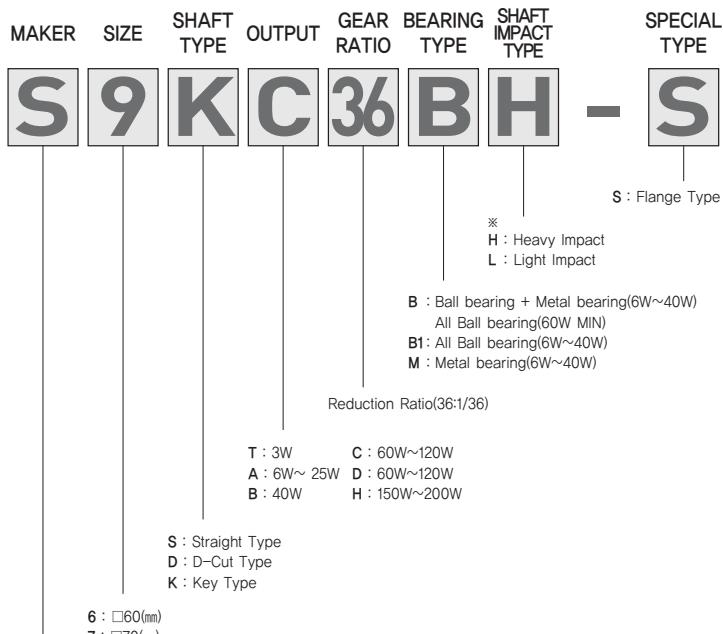
※ NOTE) The applicable motor is for T.G. 24V.

SPEED CONTROLLER (UNIT TYPE)

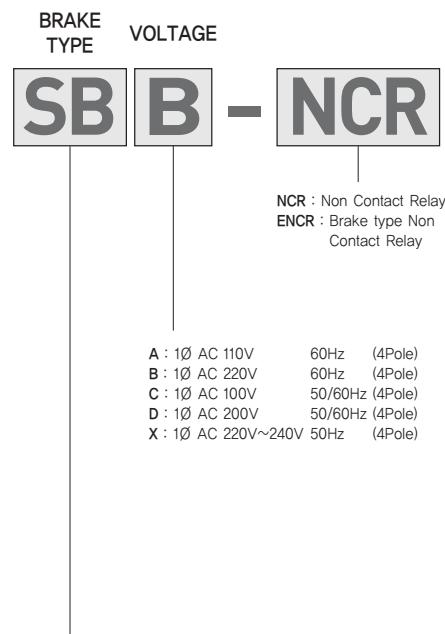
S : SPG Co.,Ltd.

BRAKE PACK (CONTACT TYPE)

SB SERIES

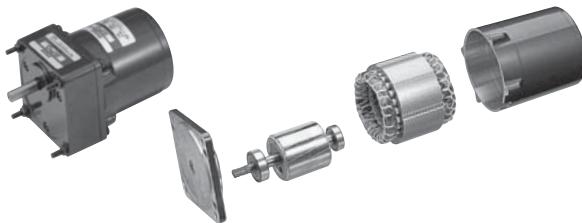
GEAR HEAD

S : SPG Co.,Ltd.

BRAKE PACK (NON CONTACT TYPE)

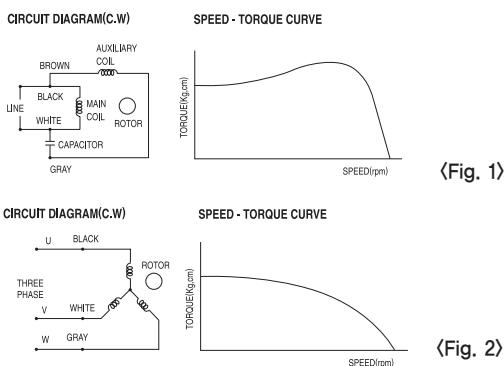
SB SERIES

Characteristics of INDUCTION MOTOR



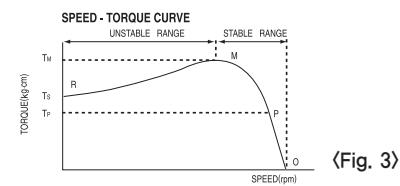
1. Characteristics of INDUCTION MOTOR

- A small induction motor usually means the condenser – run induction motor. This motor always uses both auxiliary winding and condenser not only when starting but also during operation. Generally, its starting torque isn't great, but its structure is simple reliable and efficient. Refer to (Fig. 1).
- The motor can be used in continuous rated operations.
- The number of rated rotation of the motor varies depending on the load imposed on it.
- It is suitable for operations that do not require the speed control.
- Its insulation class is E, SPG's UL conformance motor is class A.
- There are two types. One is a condenser-run single-phase induction motor and the other is a three-phase induction motor.
- Since the single-phase motor is a condenser-run induction motor, it provides high efficiency and low noise.
- The power source for a single motor includes A(110V 60Hz), B(220V 60Hz), C(100V 50/60Hz), D(200V 50/60Hz), E(115V 60Hz), and X(220–240V 50Hz).
- For a single-phase induction motor, make sure that the condenser complies with the capacity of the motor.
- For a single-phase induction motor, reversing the direction of the rotation within a short time during operation is not possible due to adverse exerting of the inertia torque against reversing. Thus, stop the motor first and change the rotational direction next.
- As an induction motor is driven by a three-phase power source, the three-phase motor provides high efficiency, relatively great starting torque, and high reliability. The three-phase motor is popular as a general-purpose motor.
- The power source for a three-phase motor, an induction motor, includes U(200V 50/60Hz), T(220V 50/60Hz), and S(380–440V 50/60Hz). Refer to (Fig. 2).



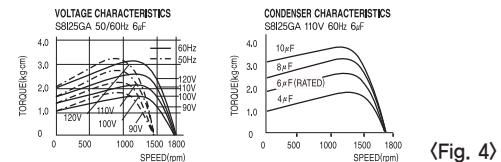
2. Characteristics of Rotation and TORQUE

- Under a constant voltage, the relationship between the number of rotation and the torque is as shown in (Fig. 3). With no-load, the number of rotation roughly approximates the number of synchronous rotation, but as the load increases, the number of rotation decreases and approaches to the speed(rpm) indicated by the point P where the torque T_p horizontally meets the load curve.
- When the load is further increased and reaches the point M, the motor stops at the point R because the motor no longer generates further torque. Therefore, the leg R–M is referred to as an unstable zone and the leg M–O is a stable zone for operation.



3. Characteristics of Voltage and CONDENSOR

- The Characteristics of voltage can be represented by the torque characteristics about the applied voltage. The torque of induction motor changes proportionate to twice the voltage.
- The characteristics of torque also change according the capacity of the condenser.
- As the capacity of the condenser boost, the starting torque and stalling torque increase. But if the capacity increases by 2.5–3.0 folds, the operating torque decreases and the starting torque do not increase.
- As a simple method to increase the torque when the induction motor is short on torque, either the voltage or the condenser capacity can be increased to continue the operation. In this case, the loss input of the motor increases and the temperature rises rapidly.
- However, if the motor must be run with insufficient torque, take measures to let the motor release heat as much as possible and operate the motor while keeping the temperature of the motor's housing below 90°C. Refer to (Fig. 4).



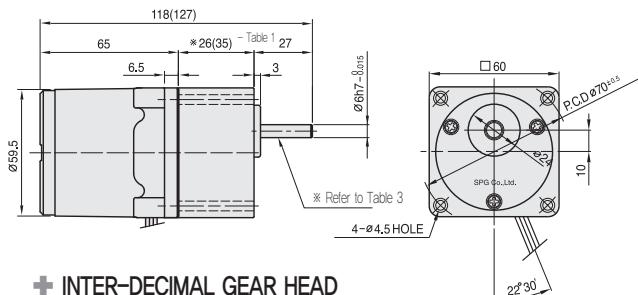
GENERAL SPECIFICATION OF INDUCTION MOTORS

ITEM	SPECIFICATION
Insulation Resistance	100MΩ or more when 500V megger is applied between the windings and the housing after rated motor operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 1.5kVat 50/60Hz applied between the windings and the case after rated motor operation under normal ambient temperature and humidity.
Temperature Rise	80°C or less increase measured by thermometer after rated operation.
Insulation Class	Class B(130°C)
Overheat Protection Device	Built-in THERMAL PROTECTOR (automatic return type) : Open 120°C±5°C Close 76°C±15°C
Ambient Temperature	-10°C ~ 40°C
Ambient Humidity	85% maximum(non condensing)

DIMENSIONS

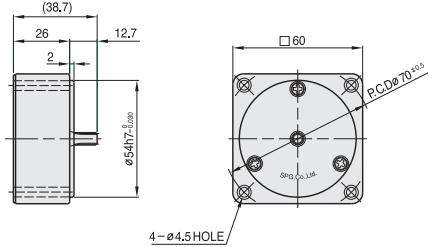
GEARED MOTOR

*MOTOR MODEL : S6I03G□
*HEAD MODEL : S6□T3□~S6□T250□



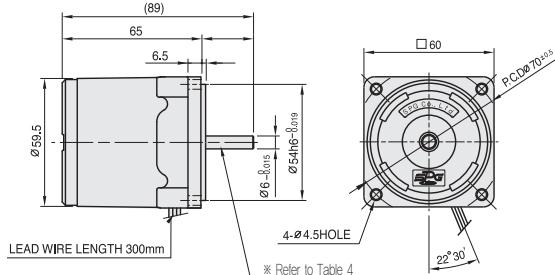
INTER-DECIMAL GEAR HEAD

* MODEL : S6GX10B



MOTOR

*MOTOR MODEL : S6I03□□



SPEC for output shaft of gearhead - (Table3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S6ST3□ ~S6ST250□	

MODEL	TYPES OF OUTPUT SHAFT
D-CUT TYPE	
S6DT3□ ~S6DT250□	

※26(35) - (Table1)

GEAR RATIO	SIZE(mm)
S6□T3□ ~ S6□T18□	26
S6□T20□ ~ S6□T250□	35

WEIGHT - (Table2)

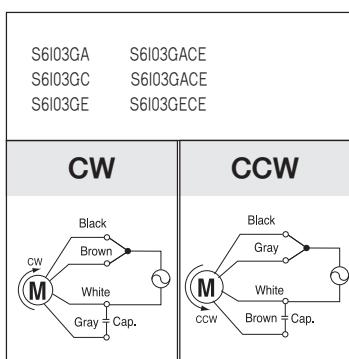
PART	WEIGHT(kg)
MOTOR	0.60
DECIMAL GEAR HEAD	0.18
GEAR HEAD	S6□T3□ ~S6□T18□
	S6□T20□ ~S6□T40□
	S6□T50□ ~S6□T250□
	0.21
	0.27
	0.30

SPEC for output shaft of motor - (Table4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S6I03G□	
STRAIGHT TYPE	
S6I03S□	
D-CUT TYPE	
S6I03D□	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

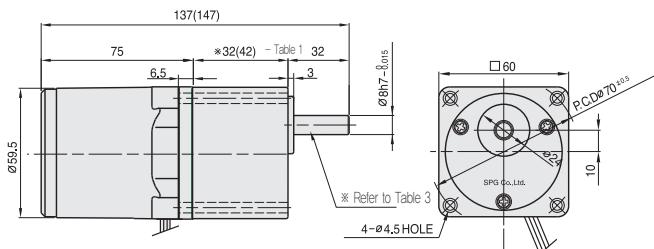


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

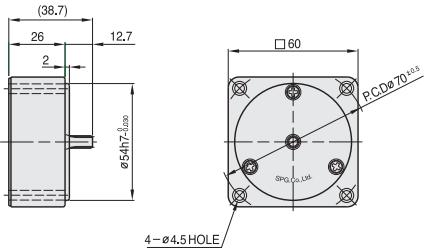
GEARED MOTOR

*MOTOR MODEL : S6I06G□
*HEAD MODEL : S6□A3□~S6□A250□



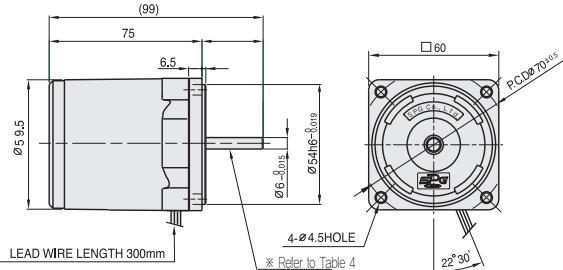
INTER-DECIMAL GEAR HEAD

* MODEL : S6GX10B



MOTOR

*MOTOR MODEL : S6I06□□□



SPEC for output shaft of gearbox - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	S6SA3□ ~S6SA250□
D-CUT TYPE	S6DA3□ ~S6DA250□
KEY TYPE	S6KA3□ ~S6KA250□

※26(35) - (Table1)

GEAR RATIO	SIZE(mm)
S6□A3□ ~ S6□A18□	30
S6□A20□ ~ S6□A250□	40

WEIGHT - (Table2)

PART	WEIGHT(kg)
MOTOR	0.70
DECIMAL GEAR HEAD	0.18
GEAR HEAD	S6□A3□ ~S6□A18□ 0.24
	S6□A20□ ~S6□A40□ 0.30
	S6□A50□ ~S6□A250□ 0.33

KEY SPEC

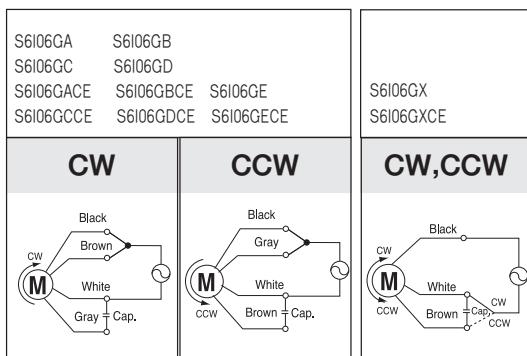
GEAR HEAD
12 ^{±0.2} 3.5 ^{±0.05} 3.5 ^{±0.05}

SPEC for output shaft of motor - (Table4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	S6I06G□
STRAIGHT TYPE	S6I06S□
D-CUT TYPE	S6I06D□

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

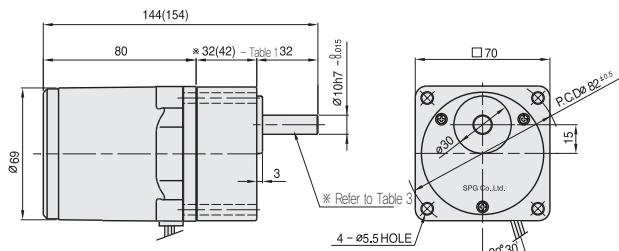


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

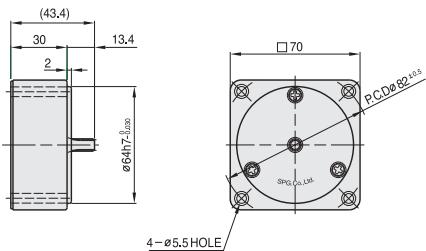
GEARED MOTOR

* MOTOR MODEL : S7I15G□
* HEAD MODEL : S7□A3□~S7□A200□



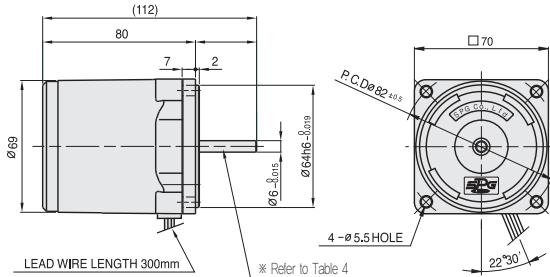
INTER-DECIMAL GEAR HEAD

* MODEL : S7GX10B



MOTOR

* MOTOR MODEL : S7I15□□



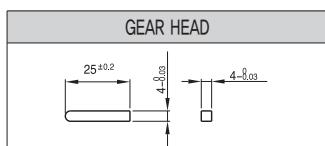
※26(35) - (Table 1)

GEAR RATIO	SIZE(mm)
S7□A3□ ~ S7□A18□	32
S7□A20□ ~ S7□A200□	42

WEIGHT - (Table 2)

PART	WEIGHT(kg)
MOTOR	1.04
DECIMAL GEAR HEAD	0.32
GEAR HEAD	
S7□A3□ ~ S7□A18□	0.38
S7□A20□ ~ S7□A40□	0.47
S7□A50□ ~ S7□A250□	0.52

KEY SPEC



SPEC for output shaft of gearhead - (Table 3)

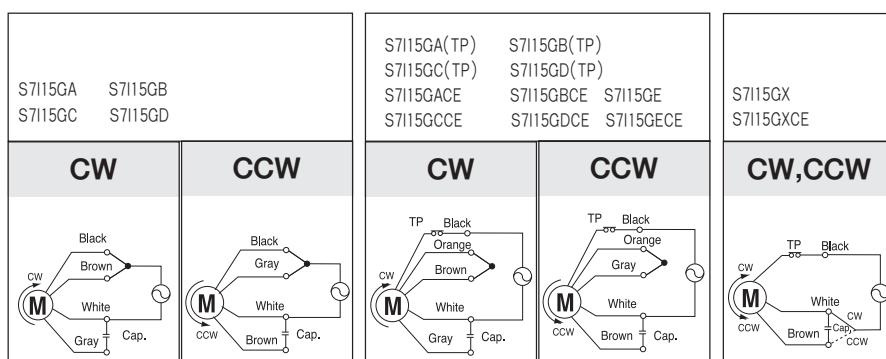
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S7SA3□ ~S7SA200□	
D-CUT TYPE	
S7DA3□ ~S7DA200□	
KEY TYPE	
S7KA3□ ~S7KA200□	

SPEC for output shaft of motor - (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S7I15G□	
STRAIGHT TYPE	
S7I15S□	
D-CUT TYPE	
S7I15D□	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

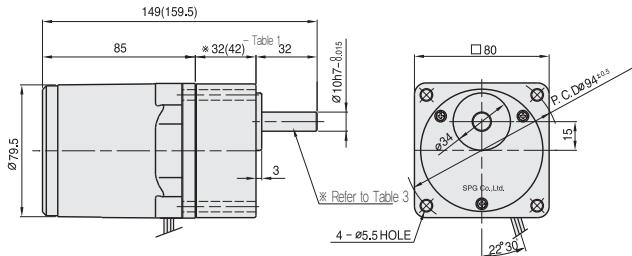


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

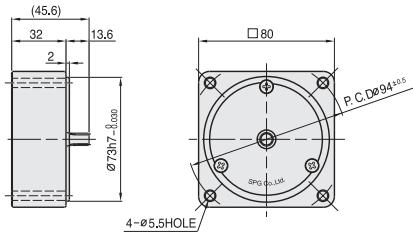
GEARED MOTOR

*MOTOR MODEL : S8I15GI
*HEAD MODEL : S8A3~S8A200



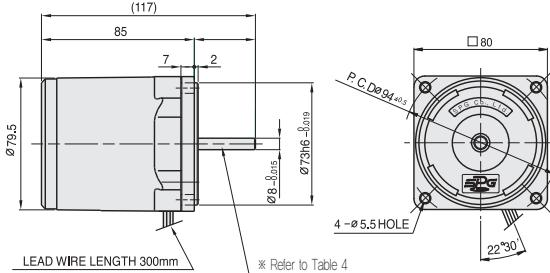
INTER-DECIMAL GEAR HEAD

* MODEL : S8GX10B



MOTOR

*MOTOR MODEL : S8I15GI



SPEC for output shaft of gearhead - (Table3)

Table 3

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S8SA3~S8SA200	
D-CUT TYPE	
S8DA3~S8DA200	
KEY TYPE	
S8KA3~S8KA200	

WEIGHT - (Table2)

PART	WEIGHT(kg)
MOTOR	1.14
DECIMAL GEAR HEAD	0.43
GEAR HEAD	0.43
S8A3~S8A18	0.43
S8A20~S8A40	0.57
S8A50~S8A200	0.61

KEY SPEC

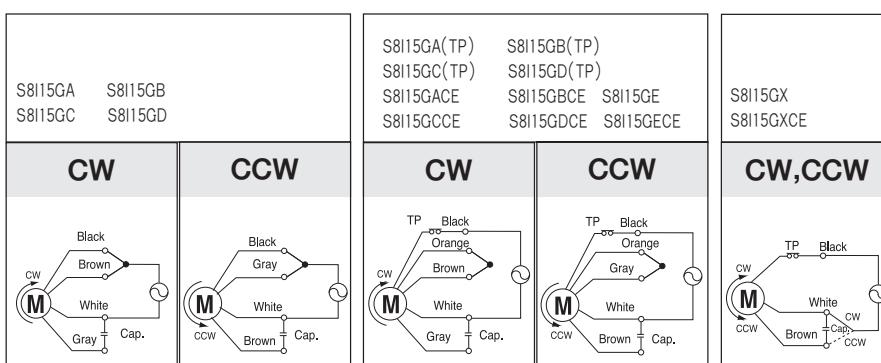
GEAR HEAD	MOTOR

SPEC for output shaft of motor - (Table4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S8I15GI	
STRAIGHT TYPE	
S8I15SI	
D-CUT TYPE	
S8I15DI	
KEY TYPE	
S8I15KI	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

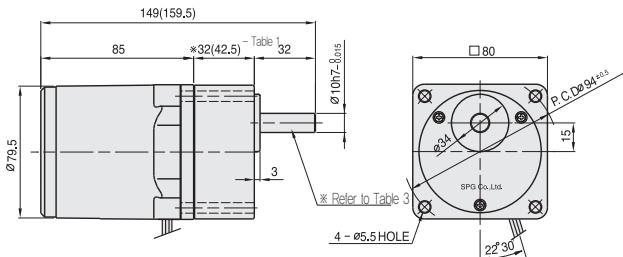


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

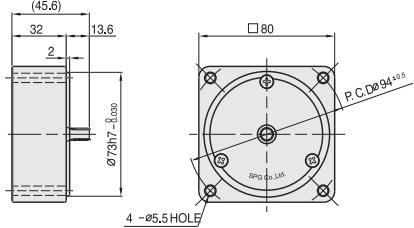
GEARED MOTOR

* MOTOR MODEL : S8I25G□
* HEAD MODEL : S8□A3□~S8□A200□



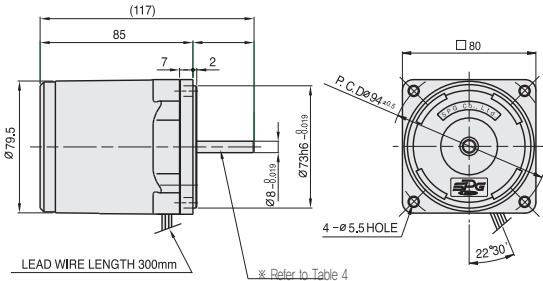
INTER-DECIMAL GEAR HEAD

* MODEL : S8GX10B



MOTOR

* MOTOR MODEL : S8I25□□



SPEC for output shaft of gearhead - (Table3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S8SA3□ ~S8SA200□	
D-CUT TYPE	
S8DA3□ ~S8DA200□	
KEY TYPE	
S8KA3□ ~S8KA200□	

※26(35) - (Table1)

GEAR RATIO	SIZE(mm)
S8□A3□ ~ S8□A18□	32
S8□A20□ ~ S8□A200□	42.5

WEIGHT - (Table2)

PART	WEIGHT(kg)
MOTOR	1.46
DECIMAL GEAR HEAD	0.43
GEAR HEAD	S8□A3□ ~ S8□A18□
	0.43
S8□A20□ ~ S8□A40□	0.57
	S8□A50□ ~ S8□A200□
	0.61

KEY SPEC

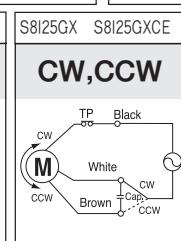
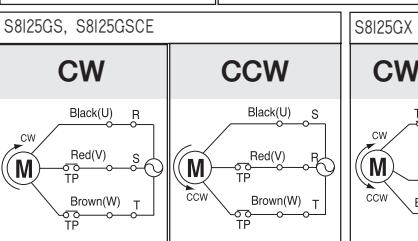
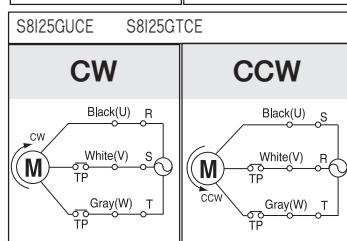
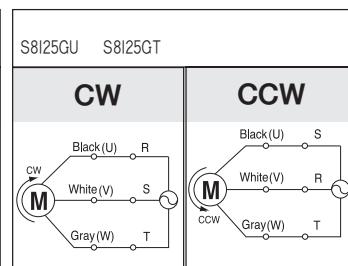
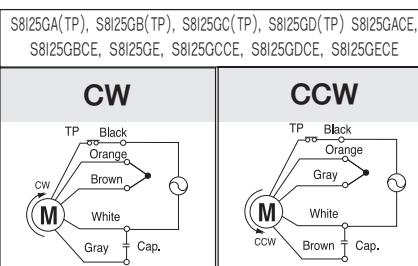
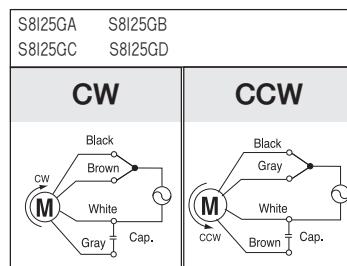
GEAR HEAD	MOTOR

SPEC for output shaft of motor - (Table4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S8I25G□	
STRAIGHT TYPE	
S8I25S□	
D-CUT TYPE	
S8I25D□	
KEY TYPE	
S8I25K□	

SCHEMATIC DIAGRAMS

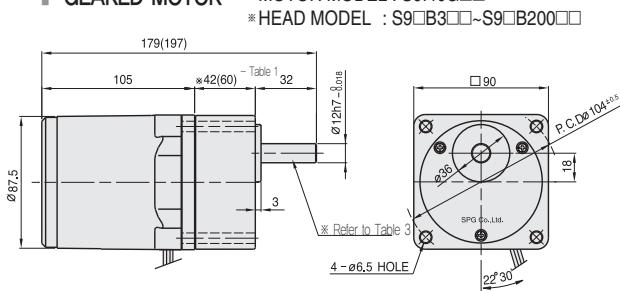
The direction of motor rotation is as viewed from the front shaft end of the motor.



Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

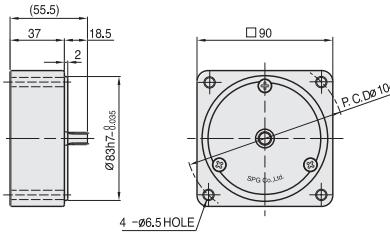
DIMENSIONS

+ GEARED MOTOR



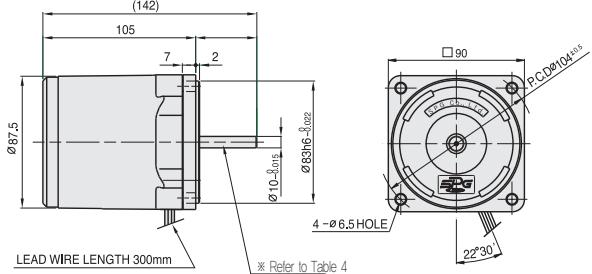
+ INTER-DECIMAL GEAR HEAD

MODEL : S9GX10B(H,L)



+ MOTOR

MOTOR MODEL : S9I40□□□



+ SPEC for output shaft of gearhead - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SB3□□ ~S9SB200□□	
D-CUT TYPE	
S9DB3□□ ~S9DB200□□	
KEY TYPE	
S9KB3□□ ~S9KB200□□	

+ #26(35) - (Table 1)

GEAR RATIO	SIZE(mm)
S9□B3□□ ~S9□B18□□	42
S9□B20□□ ~S9□B200□□	60

+ WEIGHT - (Table 2)

PART	WEIGHT(kg)	
MOTOR	2.30	
DECIMAL GEAR HEAD	0.60	
GEAR HEAD	S9□B3□□ ~S9□B18□□	0.73
	S9□B20□□ ~S9□B40□□	1.03
	S9□B50□□ ~S9□B200□□	1.13

+ KEY SPEC

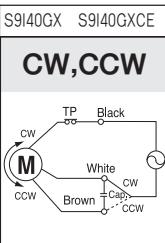
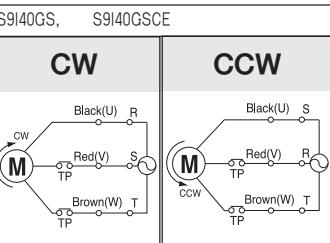
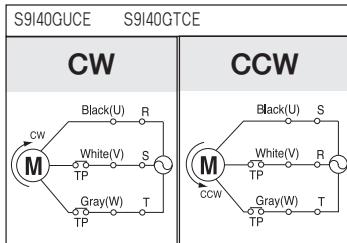
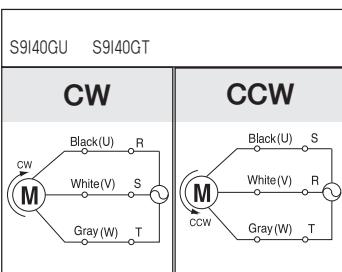
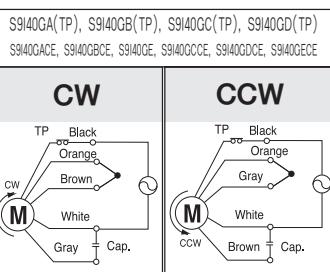
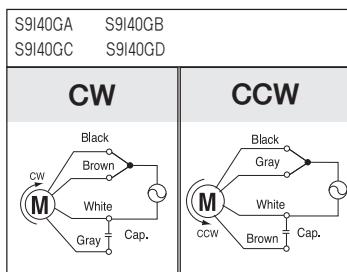
GEAR HEAD	MOTOR

+ SPEC for output shaft of motor - (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I40G□□	
STRAIGHT TYPE	
S9I40S□	
D-CUT TYPE	
S9I40D□	
KEY TYPE	
S9I40K□	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

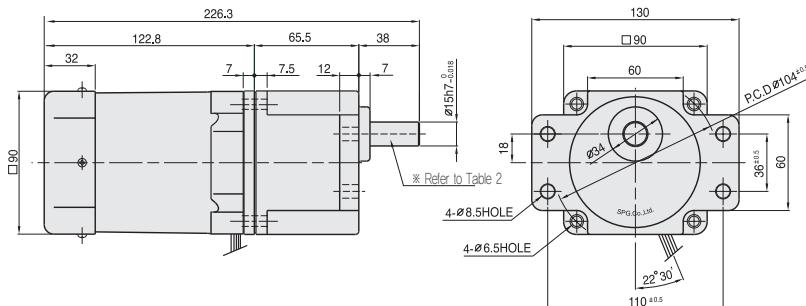


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

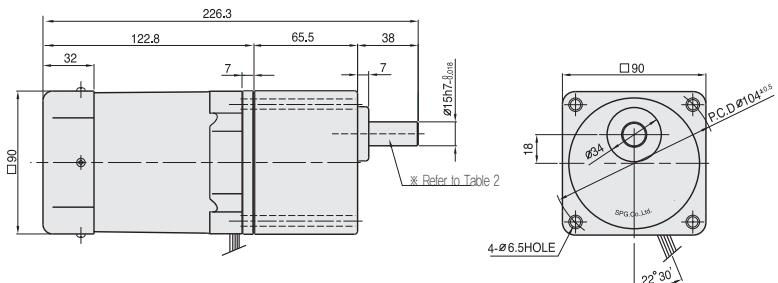
DIMENSIONS

GEARED MOTOR

*MOTOR MODEL : S9I60G□□
*HEAD MODEL : S9□C3B□-S~S9□C200B□-S

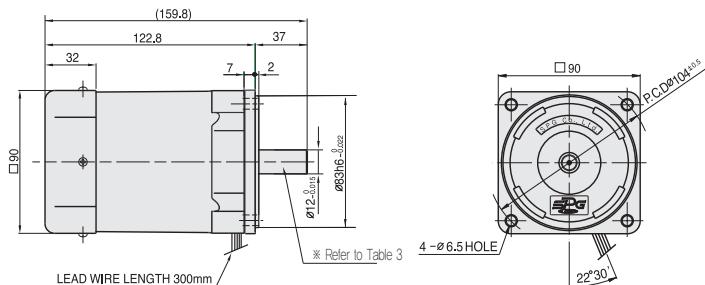


*MOTOR MODEL : S9I60G□□
*HEAD MODEL : S9□C3B□-S~S9□C200B□-S



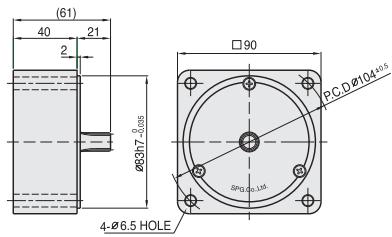
MOTOR

*MOTOR MODEL : S9I60□□□



INTER-DECIMAL GEAR HEAD

*MODEL : S9GX10B(H,L)-S



WEIGHT - (Table 1)

PART	WEIGHT(kg)
MOTOR	2.44
DECIMAL GEAR HEAD	0.65
GEAR HEAD	S9□C3B□ ~S9□C10B□ 1.21
	S9□C12.5B□ ~S9□C20B□ 1.30
	S9□C25B□ ~S9□C60B□ 1.40
	S9□C75B□ ~S9□C200B□ 1.45

KEY SPEC

GEAR HEAD	MOTOR

SPEC for output shaft of gearbox - (Table 2)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SC3B□ ~S9SC200B□	
D-CUT TYPE	
S9DC3B□ ~S9DC200B□	
KEY TYPE	
S9KC3B□ ~S9KC200B□	

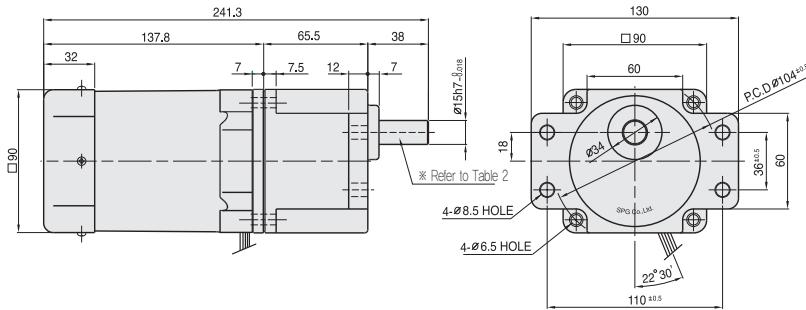
SPEC for output shaft of motor - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I60G□□	
STRAIGHT TYPE	
S9I60S□	
D-CUT TYPE	
S9I60D□	
KEY TYPE	
S9I60K□	

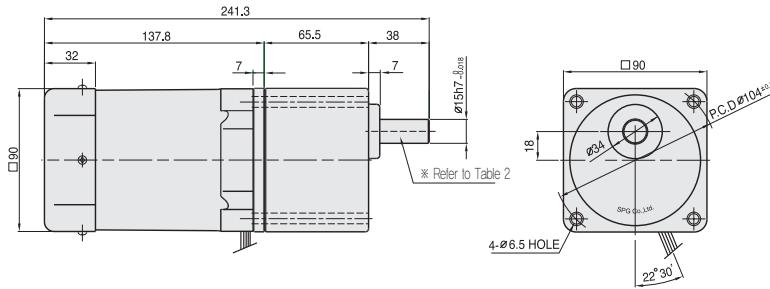
DIMENSIONS

GEARED MOTOR

*MOTOR MODEL : S9I90G□□
*HEAD MODEL : S9□C3B□-S~S9□C200B□-S

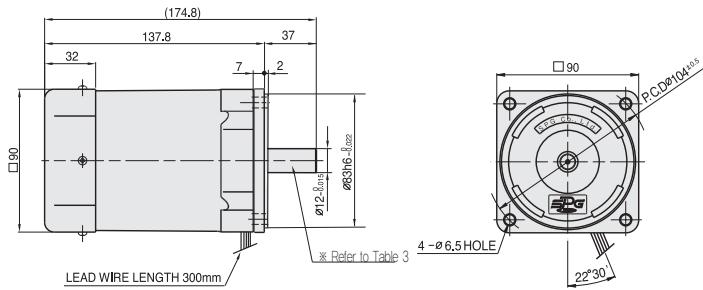


*HEAD MODEL : S9□C3B□~S9□C200B□



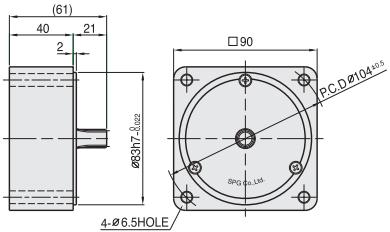
MOTOR

*MOTOR MODEL : S9I90□□□



INTER-DECIMAL GEAR HEAD

*MOTOR MODEL : S9GX10B(H,L)-S



WEIGHT - (Table 1)

PART	WEIGHT(kg)
MOTOR	2.93
DECIMAL GEAR HEAD	0.65
GEAR HEAD	S9□C3B□ ~S9□C10B□
	S9□C12.5B□ ~S9□C20B□
	S9□C25B□ ~S9□C60B□
	S9□C75B□ ~S9□C200B□
	1.45

KEY SPEC

GEAR HEAD	MOTOR

SPEC for output shaft of gearhead - (Table 2)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
D-CUT TYPE	
KEY TYPE	

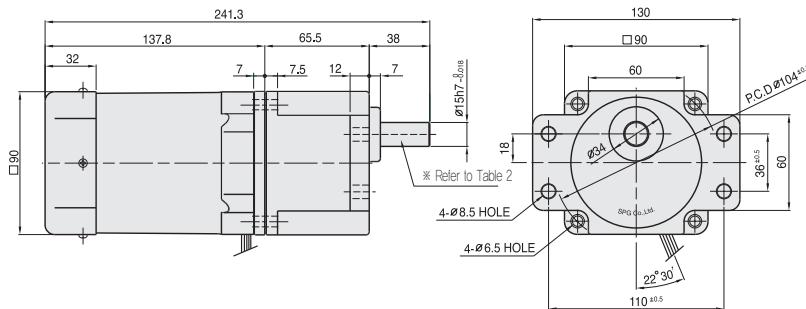
SPEC for output shaft of motor - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
STRAIGHT TYPE	
D-CUT TYPE	
KEY TYPE	

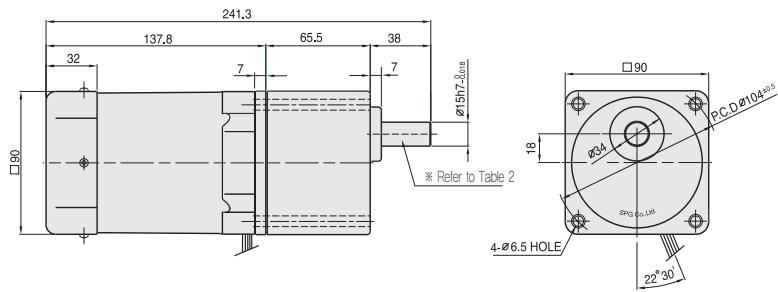
DIMENSIONS

GEARED MOTOR

*MOTOR MODEL : S9I120G□
*HEAD MODEL : S9□C3BH-S~S9□C200BH-S

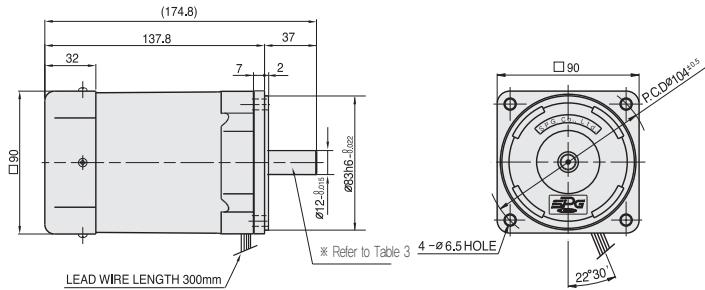


*HEAD MODEL □ : S9□C3BH~S9□C200BH



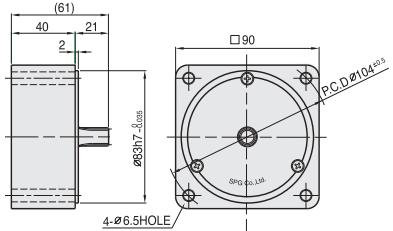
MOTOR

*MOTOR MODEL : S9I120□□



INTER-DECIMAL GEAR HEAD

* MODEL : S9GX10BH-S



WEIGHT - (Table 1)

PART		WEIGHT(kg)
MOTOR		2.93
DECIMAL GEAR HEAD		0.65
GEAR HEAD	S9□C3BH ~S9□C10BH	1.21
	S9□C12.5BH ~S9□C20BH	1.30
	S9□C25BH ~S9□C60BH	1.40
	S9□C75BH ~S9□C200BH	1.45

KEY SPEC

GEAR HEAD	MOTOR

SPEC for output shaft of gearbox - (Table 2)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SC3BH ~S9SC200BH	
D-CUT TYPE	
S9DC3BH ~S9DC200BH	
KEY TYPE	
S9KC3BH ~S9KC200BH	

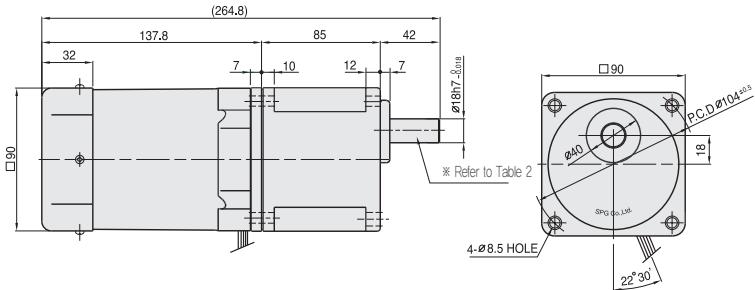
SPEC for output shaft of motor - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I120G□	
STRAIGHT TYPE	
S9I120S□	
D-CUT TYPE	
S9I120D□	
KEY TYPE	
S9I120□	

DIMENSIONS

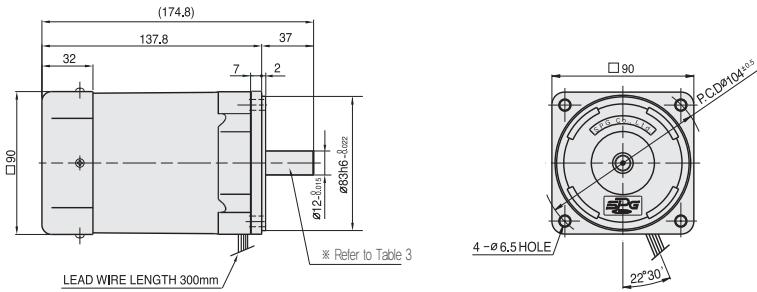
GEARED MOTOR

*MOTOR MODEL : S9I150G□
*HEAD MODEL : S9□H3B~S9□H200B



MOTOR

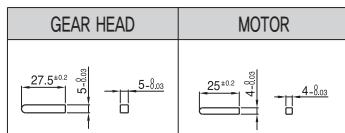
*MODEL : S9I150□□



WEIGHT - (Table1)

PART	WEIGHT(kg)
MOTOR	2.93
GEAR HEAD	S9□H3B ~S9□H10B
	1.65
	S9□H12.5B ~S9□H20B
	1.80
	S9□H25B ~S9□H60B
S9□H75B ~S9□H200B	1.90
	1.95

KEY SPEC



SPEC for output shaft of gearbox - (Table2)

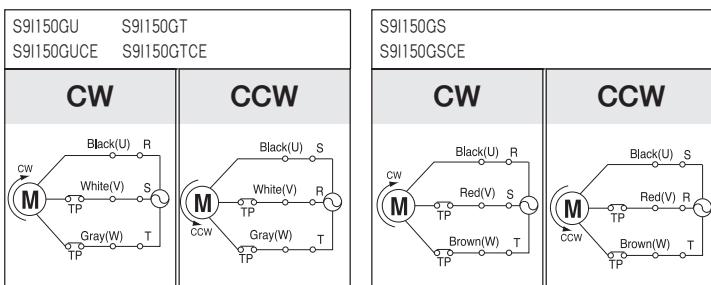
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SH3B ~S9SH200B	
D-CUT TYPE	
S9DH3B ~S9DH200B	
KEY TYPE	
S9KH3B ~S9KH200B	

SPEC for output shaft of motor - (Table3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I150G□	
STRAIGHT TYPE	
S9I150S□	
D-CUT TYPE	
S9I150D□	
KEY TYPE	
S9I150K□	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

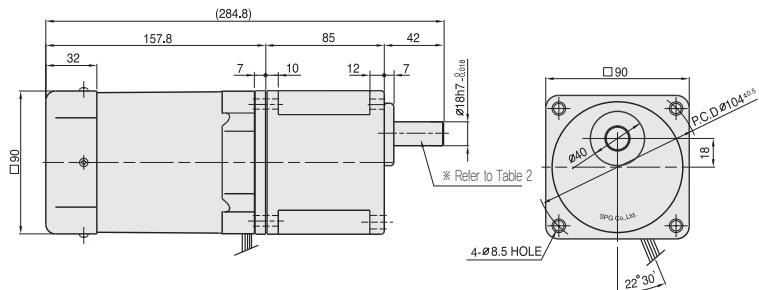


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

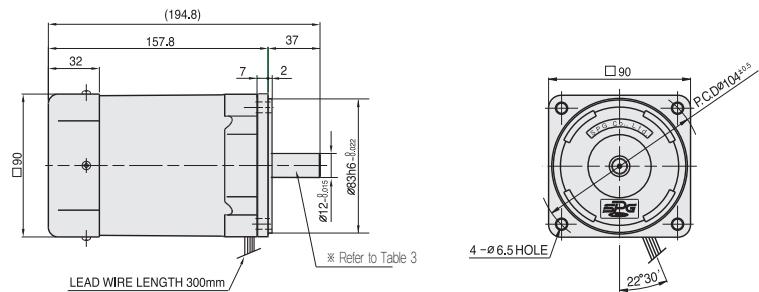
GEARED MOTOR

*MOTOR MODEL : S9I180G□
*HEAD MODEL : S9□H3B~S9□H200B



MOTOR

*MOTOR MODEL : S9I180□□



WEIGHT - (Table 1)

PART	WEIGHT(kg)
MOTOR	3.70
GEAR HEAD	S9□H3B ~S9□H10B
	1.65
	S9□H12.5B ~S9□H20B
	1.80
	S9□H25B ~S9□H60B
S9□H75B ~S9□H200B	1.90
S9□H75B ~S9□H200B	1.95

KEY SPEC

GEAR HEAD	MOTOR

SPEC for output shaft of gearbox - (Table 2)

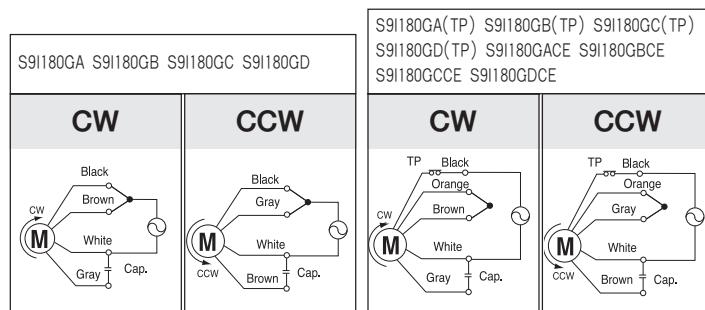
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
D-CUT TYPE	
KEY TYPE	

SPEC for output shaft of motor - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I180S□	
D-CUT TYPE	
KEY TYPE	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.

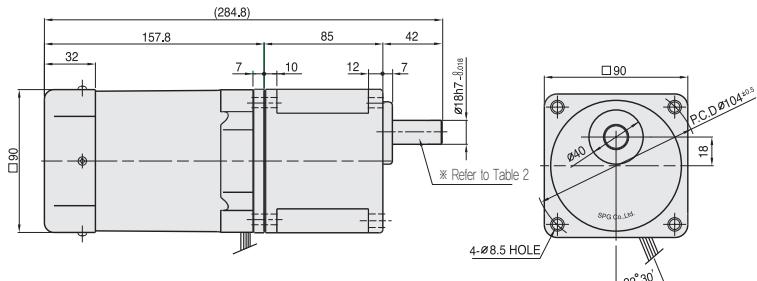


Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

DIMENSIONS

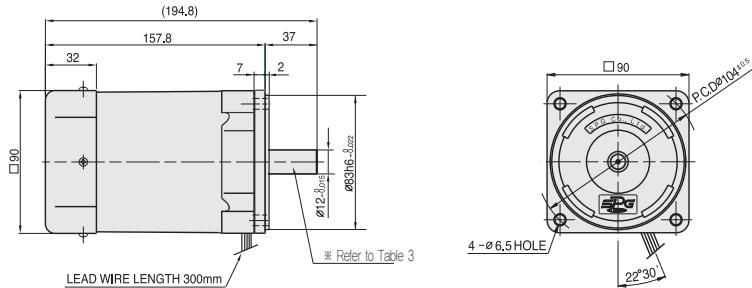
GEARED MOTOR

*MOTOR MODEL : S9I200G□
*HEAD MODEL : S9□H3B~S9□H200B



MOTOR

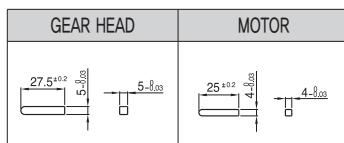
*MOTOR MODEL : S9I200□□



WEIGHT - (Table 1)

PART	WEIGHT(kg)
MOTOR	3.70
GEAR HEAD	S9□H3B ~S9□H10B
	1.65
	S9□H12.5B ~S9□H20B
	1.80
	S9□H25B ~S9□H60B
	1.90
	S9□H75B ~S9□H200B
	1.95

KEY SPEC



SPEC for output shaft of gearhead - (Table2)

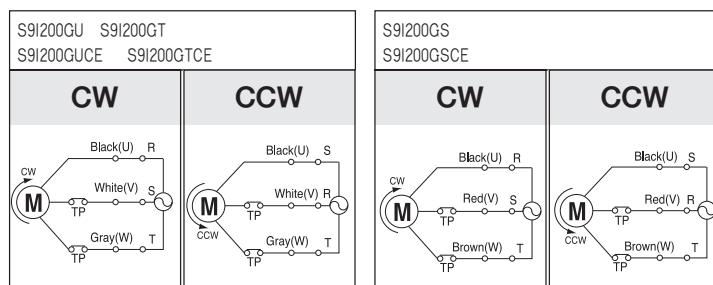
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SH3B ~S9SH200B	
D-CUT TYPE	
S9DH3B ~S9DH200B	
KEY TYPE	
S9KH3B ~S9KH200B	

SPEC for output shaft of motor - (Table3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I200G□	
STRAIGHT TYPE	
S9I200S□	
D-CUT TYPE	
S9I200D□	
KEY TYPE	
S9I200K□	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.



Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.