

TERMINAL BOX TYPE MOTORS

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CHARACTERISTICS OF TERMINAL BOX TYPE INDUCTION, REVERSIBLE MOTORS



1. Characteristics of Terminal Box Type Motors

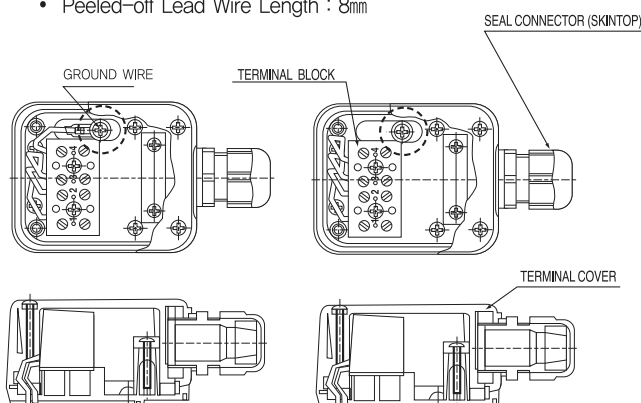
- The motor's charging section including leadwire is made airtight by the terminal box to provide the protection from dust and moisture.
- Therefore, the motor can be used in harsh environment.
- And the motor is made completely airtight with a gasket.
- The classification of the device protection structure for the skintop terminal box type motor is IP54.
- SPG has two terminal box types: Skintop terminal box type and cord bush terminal box type
- The motor features a compact design.
- The ground terminal is attached to the motor. However, the cord bush terminal box type of the single-phase induction motor does not have a built-in ground inside the terminal box. Before use, install the ground at the outside of the motor.
- Since the motor is structured to make piping work easier, it is excellent in connection work. The cable is firmly fixed to provide strong tension when wiring the cable. When using a cap tire cable, it is recommended to use a cable having an outside diameter of $\varnothing 6 \sim \varnothing 12$.
- The terminal box cover is made of PC resin which is excellent in insulation and stiffness.
- The terminal block uses a VDE certified product that provides high reliability.
- AWG NO. 24~AWG No.10($0.25\text{mm}^2 \sim 4.0\text{mm}^2$) shall be used for the lead wire, and the peeled-off lead wire shall be about 8mm.

2. Diagram of Terminal Box Structure

(1) TERMINAL BLOCK BOX TYPE (T TYPE)

1) $\square 80$ 15W ~ $\square 90$ 90W

- Material of Terminal Box : Aluminum
- Applicable Cable Diameter : $\varnothing 6 \sim \varnothing 12$
- Applicable Lead Wire : AWG 24~12($0.2 \sim 4.0\text{mm}^2$)
- Peeled-off Lead Wire Length : 8mm

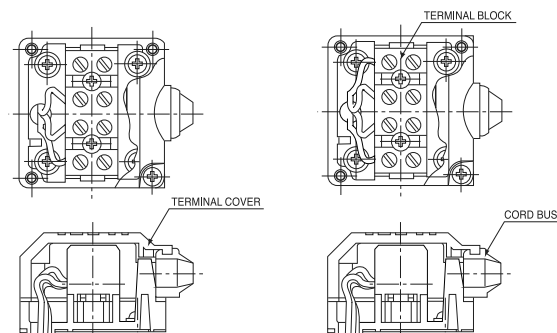


In case of Single-phase Reversible Motor
In case of Three-phase Reversible Motor

In case of Single-phase Induction Motor

2) $\square 60$ 6W ~ $\square 70$ 15W

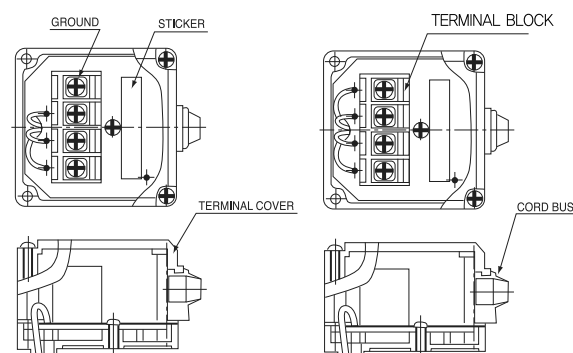
- Material of Terminal Box : Plastic
- Applicable Cable Diameter : $\varnothing 6.8 \sim \varnothing 8.6$



In case of Single-phase Reversible Motor In case of Single-phase Induction Motor

(2) PCB TERMINAL BOX TYPE (T1 TYPE) : $\square 80$ 25W ~ $\square 90$ 90W

- Material of Terminal Box : Plastic
- Applicable Cable Diameter : $\varnothing 6.8 \sim \varnothing 8.6$



In case of Single-phase Reversible Motor In case of Single-phase Induction Motor
In case of Three-phase Induction Motor

(3) CONDUIT BOX TYPE (T2 TYPE) : $\square 80$ 25W ~ $\square 90$ 90W

3. External Structure of Motor

- The reversible motor for CE mark has a cover 'A' assembled to the back side of the motor to improve dust-proof and water-proof. (Refer to the figure in page 65)
- As a result, the motor is 4.0mm longer than induction motor lengthwise, which requires the user's attention.

GENERAL SPECIFICATION OF TERMINAL BOX TYPE MOTORS

ITEM	Specification
Insulation Resistance	100M Ω 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 1500V at 50/60Hz applied between the windings and the case after rated motor operation under normal ambient temperature and humidity for 1min.
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 $\pm$ 5°C Close 76°C $\pm$ 15°C
Ambient Temperature	-10°C ~ 40°C
Ambient Humidity	85% maximum(non condensing)



6W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 60mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
60	S6I06GA-T	4	6	1 Ø 110	60	Cont.	0.20	1550	0.40	0.040	0.55	0.055	2.5
	S6I06GB-T	4	6	1 Ø 220	60	Cont.	0.10	1550	0.40	0.040	0.55	0.055	0.7
	S6I06GC-T	4	6	1 Ø 100	50	Cont.	0.21	1200	0.50	0.050	0.45	0.045	2.5
					60		0.19	1500	0.42	0.042			
	S6I06GD-T	4	6	1 Ø 200	50	Cont.	0.10	1200	0.50	0.050	0.45	0.045	0.7
					60			1500	0.42	0.042			
	S6I06GE-T	4	6	1 Ø 100	50	Cont.	0.18	1200	0.50	0.050	0.52	0.052	2.5
					60		0.19	1500	0.42	0.042			
					60		0.19	1500	0.42	0.042			
	S6I06GX-T S6I06GX-TCE	4	6	1 Ø 220	50	Cont.	0.08	1200	0.50	0.050	0.50	0.050	0.6
				1 Ø 240			0.09		0.53	0.053	0.55	0.055	

❖ Appropriate capacitors shall be used according to the voltage for S6I06GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.

❖ CE marked at the end of the model name indicates that it is impedance protected type which has received CE.

❖ "L" or "H" type does not apply to motors under 40W.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
60	S6R06GA-T S6R06GA-TCE	4	6	1 Ø 110	60	30min.	0.22	1550	0.40	0.040	0.60	0.060	3.0
	S6R06GB-T S6R06GB-TCE	4	6	1 Ø 220	60	30min.	0.11	1550	0.40	0.040	0.60	0.060	0.8
	S6R06GC-T S6R06GC-TCE	4	6	1 Ø 100	50	30min.	0.21	1200	0.50	0.050	0.45	0.045	3.0
					60			1500	0.42	0.042			
	S6R06GD-T S6R06GD-TCE	4	6	1 Ø 200	50	30min.	0.10	1200	0.45	0.045	0.53	0.053	0.8
					60			1500	0.42	0.042			
	S6R06GE-T S6R06GE-TCE	4	6	1 Ø 100	50	30min.	0.19	1200	0.50	0.050	0.52	0.052	3.5
					60		0.22	1500	0.30	0.030			
					60		0.18	1500	0.42	0.042			
	S6R06GX-T S6R06GX-TCE	4	6	1 Ø 220	50	30min.	0.09	1200	0.47	0.047	0.50	0.050	0.7
				1 Ø 240			0.10		0.50	0.050	0.55	0.055	

❖ Appropriate capacitors shall be used according to the voltage for S6R06GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.

❖ CE marked at the end of the model name indicates that it is impedance protected type which has received CE.

S6R06GE-TCE is available only for 115V specification.

❖ Above data is measured with friction brake mounted.

❖ "L" or "H" type does not apply to motors under 40W.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5	6
	kg-cm	1.3	1.5	2.1	2.6	3.2	3.9	4.3	5.4	6.4	7.7	7.7	9.7	11.6	13.9	15.5	17.5	21.0	26.2	30.0	30.0	30.0	30.0	30.0	30.0	30.0
S6DA□B		N·m	0.127	0.147	0.206	0.255	0.314	0.382	0.421	0.529	0.627	0.755	0.755	0.951	1.137	1.362	1.519	1.715	2.058	2.568	2.942	2.942	2.942	2.942	2.942	2.942

60Hz

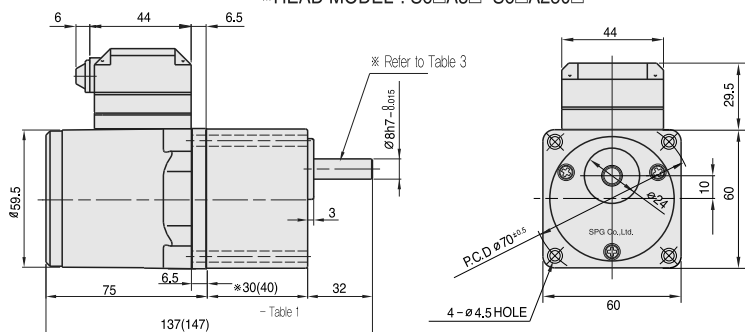
GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9	7.2
	kg-cm	1.0	1.3	1.7	2.1	2.6	3.1	3.5	4.4	5.2	6.3	6.3	7.8	9.4	11.3	12.6	14.2	17.0	21.3	25.5	28.4	30.0	30.0	30.0	30.0	30.0
S6DA□B		N·m	0.098	0.127	0.167	0.206	0.255	0.304	0.343	0.431	0.510	0.617	0.617	0.764	0.921	1.107	1.235	1.392	1.666	2.087	2.499	2.783	2.942	2.942	2.942	2.942

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 30 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ "L" or "H" type does not apply to motors under 40W.

DIMENSIONS

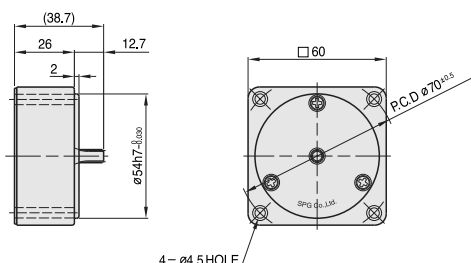
GEARED MOTOR

* MOTOR MODEL : S6(I,R)06G□-T
* HEAD MODEL : S6□A3□~S6□A250□



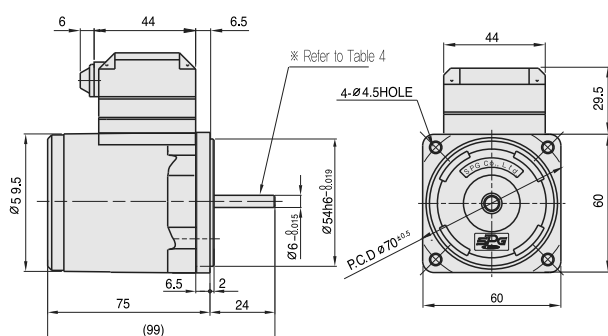
INTER-DECIMAL GEAR HEAD

* MODEL : S6GX10B



MOTOR

* MOTOR MODEL : S6(I,R)06□-T



*26(35) - (Table 1)

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

WEIGHT - (Table 2)

PART	WEIGHT(kg)
MOTOR	0.76
REVERSIBLE MOTOR	0.77
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

SPEC for output shaft of gearhead - (Table 3)

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

SPEC for output shaft of motor - (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S6(I,R)06G□-T	
STRAIGHT TYPE	
S6(I,R)06S□-T	
D-CUT TYPE	
S6(I,R)06S□-T	

KEY SPEC

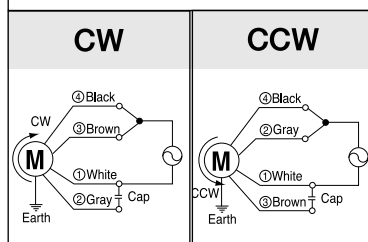
GEAR HEAD

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

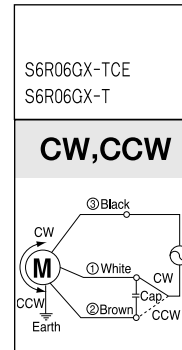
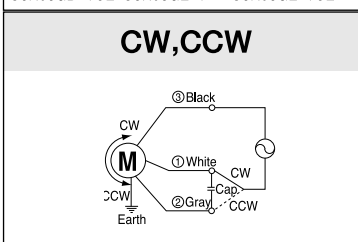
INDUCTION MOTOR

S6I06GA-T S6I06GB-T
S6I06GC-T S6I06GD-T
S6I06GE-T



REVERSIBLE MOTOR

S6R06GA-T S6R06GB-T
S6R06GC-T S6R06GD-T
S6R06GA-TCE S6R06GB-TCE S6R06GC-TCE
S6R06GD-TCE S6R06GE-T S6R06GE-TCE



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.



15W

INDUCTION MOTOR, REVERSIBLE MOTOR
□ 70mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
70	S7R15GA-T	4	15	1 ∅ 110	60	Cont.	0.34	1600	1.00	0.100	1.10	0.110	5.0
	S7R15GB-T	4	15	1 ∅ 220	60	Cont.	0.19	1550	1.10	0.110	1.10	0.110	1.2
	S7R15GC-T	4	15	1 ∅ 100	50	Cont.	0.35	1250	1.20	0.120	0.90	0.090	5.0
					60		0.34	1550	1.00	0.100			
	S7R15GD-T	4	15	1 ∅ 200	50	Cont.	0.19	1200	1.25	0.125	0.90	0.090	1.2
					60		0.18	1500	1.20	0.120			
	S7R15GX-T	4	15	1 ∅ 220	50	Cont.	0.16	1200	1.25	0.125	0.75	0.075	0.9
	S7R15GX-TCE			1 ∅ 240			0.18		1.35	0.135	0.90	0.090	

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S7R15GX-T is thermally protected type with TP mounted.

❖ "L" or "H" type does not apply to motors under 40W.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
70	S7R15GA-T S7R15GA-T(TP) S7R15GA-TCE	4	15	1 ∅ 110	60	30min.	0.44	1550	1.0	0.100	1.10	0.110	6.0
	S7R15GB-T S7R15GB-T(TP) S7R15GB-TCE	4	15	1 ∅ 220	60	30min.	0.22	1550	1.0	0.100	1.10	0.110	1.5
	S7R15GC-T S7R15GC-T(TP) S7R15GC-TCE	4	15	1 ∅ 100	50	30min.	0.42	1200	1.25	0.125	0.90	0.090	6.0
					60			1500	1.0	0.100			
	S7R15GD-T S7R15GD-T(TP) S7R15GD-TCE	4	15	1 ∅ 200	50	30min.	0.21	1200	1.25	0.125	0.90	0.090	1.5
					60			1500	1.0	0.100			
	S7R15GE-T S7R15GE-TCE	4	15	1 ∅ 100	50	30min.	0.37	1200	1.25	0.125	0.95	0.095	6.0
				1 ∅ 115	60		0.41	1500	1.0	0.100			4.5
				1 ∅ 220	50		0.35	1550	1.0	0.100			
	S7R15GX-T S7R15GX-TCE	4	15	1 ∅ 220	50	30min.	0.17	1200	1.25	0.125	0.9	0.090	1.2
				1 ∅ 240			0.18		1.45	0.145	1.1	0.110	

❖ Appropriate capacitors shall be used according to the voltage for S7R15GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE. S7R15GE-TCE is available only for 115V specification.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S7R15GE-T, S7R15GX-T is thermally protected type with TP mounted.

❖ Above data is measured with friction brake mounted.

❖ "L" or "H" type does not apply to motors under 40W.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	3.2	3.9	5.4	6.5	8.1	9.7	10.8	13.5	16.2	19.4	19.4	24.2	29.1	34.9	38.8	43.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
S7KA□B		N·m	0.314	0.382	0.530	0.637	0.794	0.951	1.059	1.324	1.587	1.902	1.902	2.373	2.854	3.423	3.805	4.276	4.900	4.900	4.900	4.900	4.900	4.900	4.900

60Hz

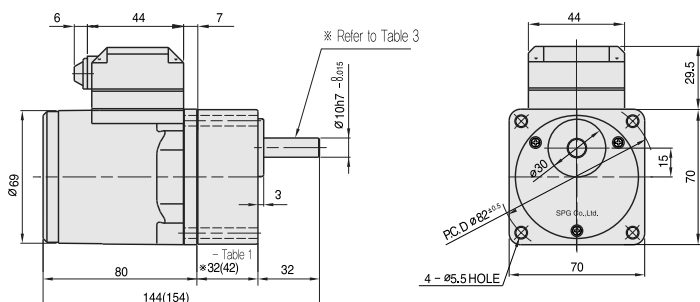
GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	3.0	3.6	5.1	6.1	7.6	9.1	10.1	12.7	15.2	18.2	18.2	22.8	27.3	32.8	36.5	41.0	49.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0
S7KA□B		N·m	0.294	0.353	0.500	0.598	0.745	0.892	0.990	1.245	1.491	1.785	1.785	2.236	2.677	3.217	3.579	4.021	4.825	4.900	4.900	4.900	4.900	4.900	4.900

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 50 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ "L" or "H" type does not apply to motors under 40W.

DIMENSIONS

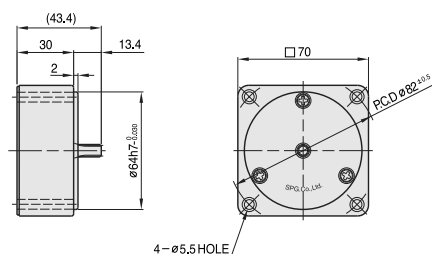
GEARED MOTOR

※ MOTOR MODEL : S7(I,R)15G□-T
※ HEAD MODEL : S7□A3□~S7□A200□



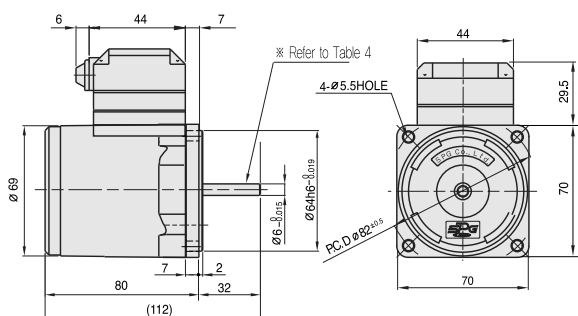
INTER-DECIMAL GEAR HEAD

※ MODEL : S7GX10B



MOTOR

※ MOTOR MODEL : S7(I,R)15□□-T



※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	1.10
DECIMAL GEAR HEAD	1.11
GEAR HEAD	
S7□A3□ ~ S7□A18□	0.38
S7□A20□ ~ S7□A40□	0.47
S7□A50□ ~ S7□A250□	0.52

KEY SPEC

GEAR HEAD
25 ^{+0.2} 4 ^{-0.03} 4 ^{-0.03}

SPEC for output shaft of gearhead - (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	32 ø10
S7SA3□ ~ S7SA200□	
D-CUT TYPE	32 25 ø10 ø10 ø10
S7DA3□ ~ S7DA200□	
KEY TYPE	32 25 ø10 2.5 ^{+0.1} 4 ^{+0.03} 23
S7KA3□ ~ S7KA200□	

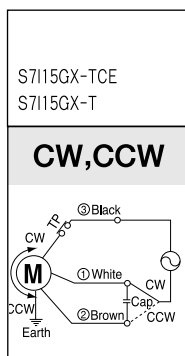
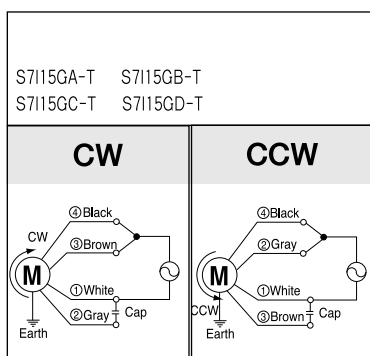
SPEC for output shaft of motor - (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	13.4
S7(I,R)15G□-T	
STRAIGHT TYPE	32 ø16
S7(I,R)15S□-T	
D-CUT TYPE	32 25 5.5 ^{+0.1} ø6
S7(I,R)15D□-T	

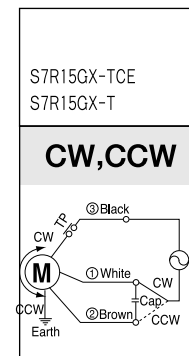
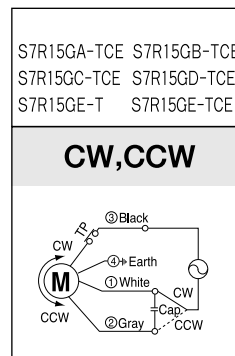
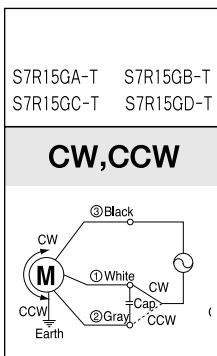
SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

INDUCTION MOTOR



REVERSIBLE 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.



15W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 80mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
80	S8R15CA-T S8R15CA-T1	4	15	1 Ø 110	60	Cont.	0.43	1600	1.00	0.100	1.20	0.120	4.0
	S8R15GB-T S8R15GB-T1	4	15	1 Ø 220	60	Cont.	0.22	1600	1.00	0.100	1.20	0.120	1.0
	S8R15GC-T S8R15GC-T1	4	15	1 Ø 100	50	Cont.	0.51	1300	1.20	0.120	0.95	0.095	4.0
					60		0.43	1550	1.00	0.100			
	S8R15GD-T S8R15GD-T1	4	15	1 Ø 200	50	Cont.	0.25	1300	1.20	0.120	0.95	0.095	1.0
					60		0.22	1550	1.00	0.100			
	S8R15GX-T S8R15GX-TCE S8R15GX-T1CE	4	15	1 Ø 220	50	Cont.	0.16	1200	1.30	0.130	0.95	0.095	1.0
				1 Ø 240			0.17		1.40	0.140	1.10	0.110	

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S8R15GX-T is thermally protected type with TP mounted.

❖ "L" or "H" type does not apply to motors under 40W.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)		(kg-cm)	(N-m)	
80	S8R15GA-T S8R15GA-T1 S8R15GA-T1(TP) S8R15GA-T1(TP) S8R15GA-TCE S8R15GA-T1CE	4	15	1 Ø 110	60	30min.	0.49	1550	1.00	0.100	1.20	0.120	6.0
	S8R15GB-T S8R15GB-T1 S8R15GB-T1(TP) S8R15GB-T1(TP) S8R15GB-TCE S8R15GB-TCE1	4	15	1 Ø 220	60	30min.	0.25	1550	1.00	0.100	1.20	0.120	1.5
	S8R15GC-T S8R15GC-T1 S8R15GC-T1(TP) S8R15GC-T1(TP) S8R15GC-TCE S8R15GC-T1CE	4	15	1 Ø 100	50	30min.	0.58	1200	1.30	0.130	0.95	0.095	6.0
					60		0.48	1500	1.10	0.110			
	S8R15GD-T S8R15GD-T1 S8R15GD-T1(TP) S8R15GD-T1(TP) S8R15GD-TCE S8R15GD-T1CE	4	15	1 Ø 200	50	30min.	0.29	1200	1.30	0.130	0.95	0.095	1.5
					60		0.25	1500	1.10	0.110			
	S8R15GE-T S8R15GE-T1 S8R15GE-TCE S8R15GE-T1CE	4	15	1 Ø 100	50	30min.	0.59	1250	1.30	0.130	0.95	0.095	6.0
				1 Ø 115	60		0.48	1550	1.20	0.120			4.5
				1 Ø 115	60		0.52	1600	1.10	0.110			
	S8R15GX-T S8R15GX-T1 S8R15GX-TCE S8R15GX-T1CE	4	15	1 Ø 220	50	30min.	0.16	1200	1.30	0.130	1.10	0.110	1.2
				1 Ø 240			0.18		1.40	0.140	1.30	0.130	

❖ Appropriate capacitors shall be used according to the voltage for S8R15GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE. S8R15GE-TCE is available only for 115V specification.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S8R15GE-T, S8R15GX-T is thermally protected type with TP mounted.

❖ Above data is measured with friction brake mounted.

❖ "L" or "H" type does not apply to motors under 40W.

50Hz

GEAR RATIO	MODEL	rpm	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
			500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
S8KA□B		kg-cm	3.4	4.1	5.7	6.8	8.5	10.2	11.3	14.2	17.0	20.4	20.4	25.6	30.7	36.8	40.9	46.2	55.4	69.2	80	80	80	80	80	80
		N·m	0.333	0.402	0.559	0.666	0.833	1.000	1.107	1.392	1.666	1.999	1.999	2.509	3.009	3.606	4.008	4.530	5.433	6.786	7.840	7.840	7.840	7.840	7.840	7.840

60Hz

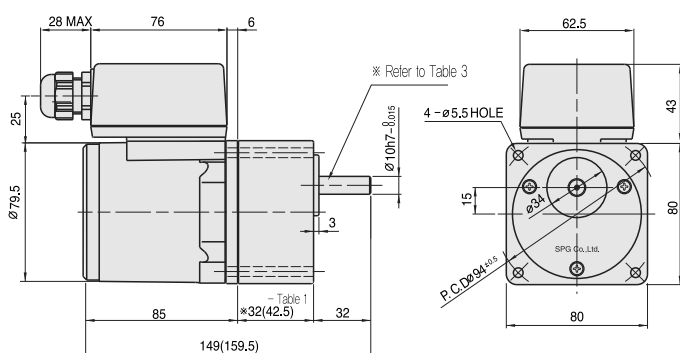
GEAR RATIO	MODEL	rpm	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
			600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S8KA□B		kg-cm	2.9	3.5	4.9	5.8	7.3	8.7	9.7	12.2	14.6	17.5	17.5	21.9	26.3	31.5	35.0	39.6	47.5	59.4	71.3	79.2	80	80	80	80
		N·m	0.284	0.343	0.481	0.568	0.715	0.853	0.951	1.196	1.432	1.715	1.715	2.146	2.577	3.087	3.430	3.881	4.658	5.825	6.992	7.767	7.840	7.840	7.840	7.840

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 80g-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ "L" or "H" type does not apply to motors under 40W.

DIMENSIONS

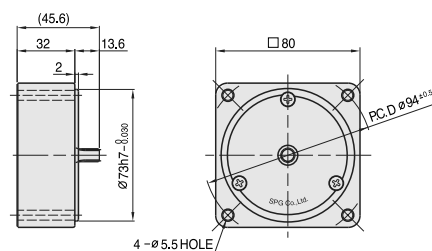
+ GEARED MOTOR

- * MOTOR MODEL : S8(I,R)15G□-T
- * HEAD MODEL : S8□A3□~S8□A200□



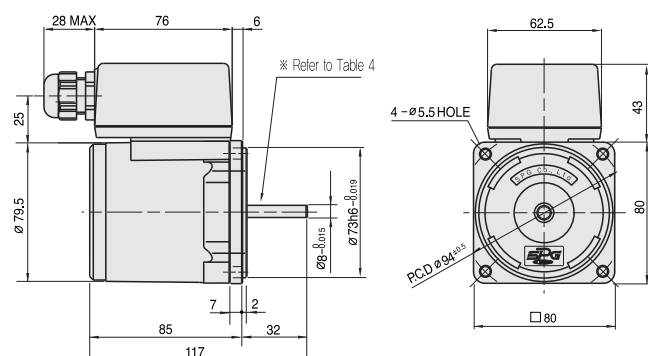
+ INTER-DECIMAL GEAR HEAD

- * MODEL : S8GX10B



+ MOTOR

- * MOTOR MODEL : S6R06□-E



+ WEIGHT - (Table 2)

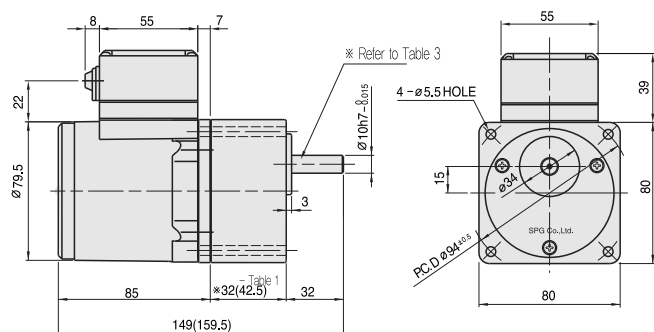
PART		WEIGHT(kg)
MOTOR		1.30
REVERSIBLE MOTOR		1.60
DECIMAL GEAR HEAD		0.43
GEAR HEAD	S8□A3□ ~S8□A18□	0.43
	S8□A20□ ~S8□A40□	0.57
	S8□A50□ ~S8□A200□	0.61

DIMENSIONS

GEARED MOTOR

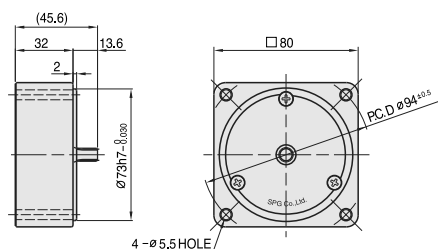
※ MOTOR MODEL : S8(I,R)15G□-T1

※ HEAD MODEL : S8□A3□~S8□A200□



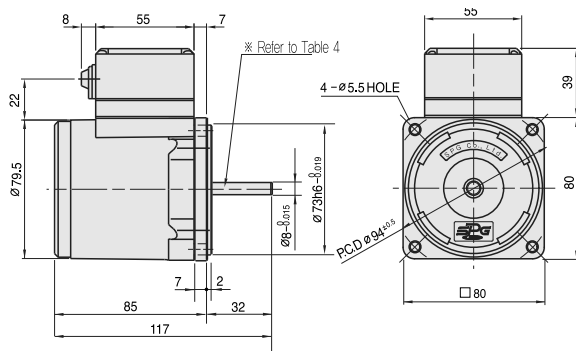
INTER-DECIMAL GEAR HEAD

※ MODEL : S8GX10B



MOTOR

※ MOTOR MODEL : S8(I,R)15□-T1



※26(35) - (Table 1)

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

WEIGHT - (Table 2)

PART		WEIGHT(kg)
MOTOR		1.25
REVERSIBLE MOTOR		0.55
DECIMAL GEAR HEAD		1.43
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 gearhead - (Table 3)

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

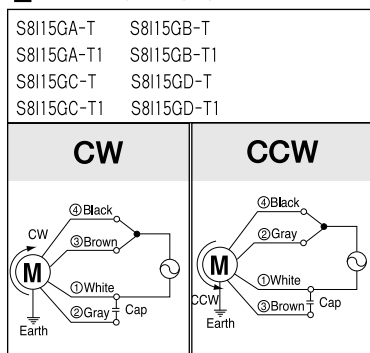
SPEC for output shaft of motor - (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S8(I,R)15G□-T S8(I,R)15G□-T1	
STRAIGHT TYPE	
S8(I,R)15S□-T S8(I,R)15S□-T1	
D-CUT TYPE	
S8(I,R)15D□-T S8(I,R)15D□-T1	
KEY TYPE	
S8(I,R)15K□-T S8(I,R)15K□-T1	

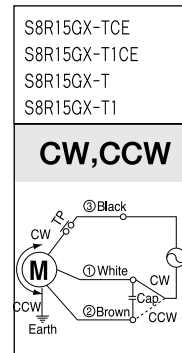
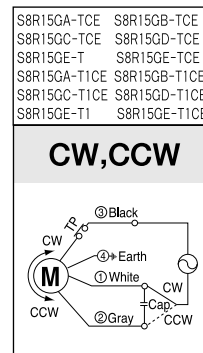
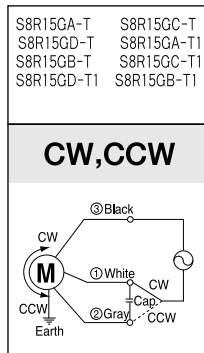
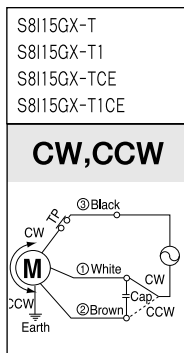
SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

INDUCTION MOTOR



REVERSIBLE 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.



25W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 80mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
80	S8I25GA-T S8I25GA-T1	4	25	1 ∅ 110	60	Cont.	0.51	1600	1.60	0.160	1.80	0.180	6.0
	S8I25GB-T S8I25GB-T1	4	25	1 ∅ 220	60	Cont.	0.23	1550	1.65	0.165	1.80	0.180	1.5
	S8I25GC-T S8I25GC-T1	4	25	1 ∅ 100	50 60	Cont.	0.57 0.52	1250 1550	2.00 1.65	0.200 0.165	1.45	0.145	6.0
	S8I25GD-T S8I25GD-T1	4	25	1 ∅ 200	50 60	Cont.	0.30 0.29	1250 1500	2.00 1.70	0.200 0.170	1.45	0.145	1.5
	S8I25GX-T S8I25GX-T1 S8I25GX-TCE S8I25GX-T1CE	4	25	1 ∅ 220 1 ∅ 240	50	Cont.	0.23 0.25	1200	2.10 2.20	0.210 0.220	1.10 1.30	0.110 0.180	1.3
	S8I25GU-T S8I25GU-T1 S8I25GU-TCE S8I25GU-T1CE	4	25	3 ∅ 200	50 60	Cont.	0.26 0.24	1300 1550	1.95 1.65	0.195 0.165	3.50 2.90	0.350 0.290	—
	S8I25GT-T S8I25GT-T1 S8I25GT-TCE S8I25GT-T1CE	4	25	3 ∅ 220	50 60	Cont.	0.28 0.24	1350 1600	1.90 1.60	0.190 0.160	4.20 3.50	0.420 0.350	—
	S8I25GS-T S8I25GS-T1 S8I25GS-TCE S8I25GS-T1CE	4	25	3 ∅ 380 3 ∅ 400 3 ∅ 415 3 ∅ 440	50 60 50 60	Cont. Cont. Cont. Cont.	0.14 0.12 0.14 0.12 0.15 0.13 0.15 0.13	1250 1500 1250 1500 1300 1550 1300 1550	2.00 1.70 2.10 1.80 1.95 1.65 2.10 1.80	0.200 0.170 0.210 0.180 0.195 0.165 0.210 0.180	3.15 2.50 3.50 2.75 3.75 3.00 4.40 3.40	0.315 0.250 0.350 0.275 0.375 0.300 0.440 0.340	—

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S8I25GX-T, S8I25GS-T is thermally protected type with TP mounted.

❖ "L" or "H" type does not apply to motors under 40W.

❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
80	S8R25GA-T S8R25GA-T S8R25GA-T(TP) S8R25GA-T1(TP) S8R25GA-TCE S8R25GA-T1CE	4	25	1 ∅ 110	60	30min.	0.71	1550	1.70	0.170	2.30	0.230	10.0
	S8R25GB-T S8R25GB-T S8R25GB-T(TP) S8R25GB-T1(TP) S8R25GB-TCE S8R25GB-T1CE	4	25	1 ∅ 220	60	30min.	0.35	1600	1.65	0.165	2.30	0.230	2.5
	S8R25GC-T S8R25GC-T S8R25GC-T(TP) S8R25GC-T1(TP) S8R25GC-TCE S8R25GC-T1CE	4	25	1 ∅ 100	50	30min.	0.63	1250	2.10	0.210	1.80	0.180	10.0
					60		0.70	1500	1.70	0.170			
	S8R25GD-T S8R25GD-T S8R25GD-T(TP) S8R25GD-T1(TP) S8R25GD-TCE S8R25GD-T1CE	4	25	1 ∅ 200	50	30min.	0.33	1250	2.10	0.210	1.80	0.180	2.5
					60			1550	1.70	0.170			
	S8R25GE-T S8R25GE-T S8R25GE-T(TP) S8R25GE-T1(TP) S8R25GE-TCE S8R25GE-T1CE	4	25	1 ∅ 100	50	30min.	0.60	1250	2.10	0.210	1.30	0.130	8.0
					60		0.65	1450	1.80	0.180			
				1 ∅ 115	60		0.63	1550	1.70	0.170			7.0
	S8R25GX-T S8R25GX-T S8R25GX-TCE S8R25GX-T1CE	4	25	1 ∅ 220	50	30min.	0.26	1200	2.00	0.200	1.70	0.170	2.0
				1 ∅ 240			0.28		2.20	0.220	2.20	0.220	

- ❖ Appropriate capacitors shall be used according to the voltage for S8R25GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.
- ❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE. S8R25GE-TCE is available only for 115V specification.
- ❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.
- S8R25GE-T, S8R25GX-T is thermally protected type with TP mounted.
- ❖ Above data is measured with friction brake mounted.
- ❖ "L" or "H" type does not apply to motors under 40W.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	5.3	6.4	8.9	10.7	13.4	16.0	17.8	22.3	26.7	32.1	32.1	40.2	48.2	57.8	64.2	72.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
S8KA□B		N·m	0.519	0.627	0.872	1.049	1.313	1.568	1.744	2.185	2.617	3.146	3.146	3.940	4.724	5.664	6.292	7.115	7.840	7.840	7.840	7.840	7.840	7.840	7.840

60Hz

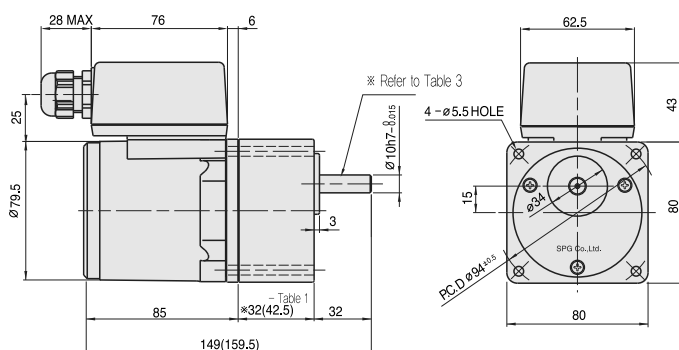
GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	4.4	5.2	7.3	8.7	10.9	13.1	14.6	18.2	21.9	26.2	26.3	32.9	39.4	47.3	52.6	59.4	71.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0
S8KA□B		N·m	0.431	0.510	0.715	0.853	1.068	1.431	1.784	2.146	2.568	2.577	3.224	3.861	4.635	5.155	5.821	6.987	7.840	7.840	7.840	7.840	7.840	7.840	7.840

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 8 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
- Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
- The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ "L" or "H" type does not apply to motors under 40W.

DIMENSIONS

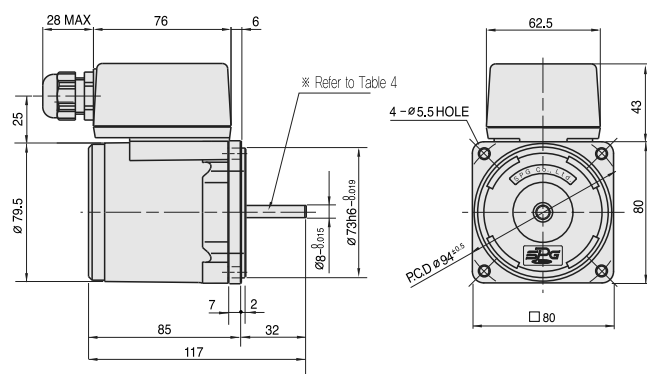
GEARED MOTOR

* MOTOR MODEL : S8(I,R)25G□-T
* HEAD MODEL : S8□A3□~S8□A200□



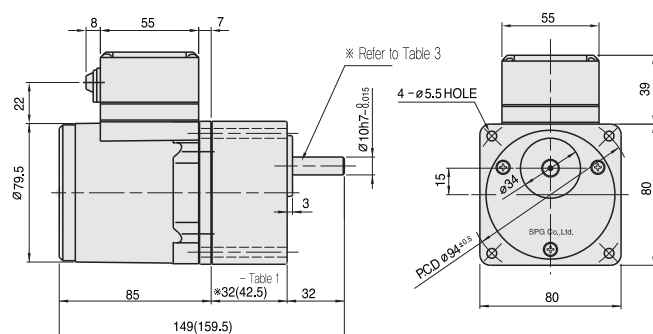
MOTOR

* MOTOR MODEL : S8(I,R)25□-T



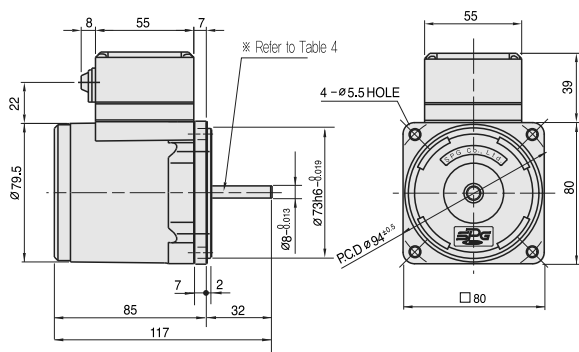
GEARED MOTOR

* MOTOR MODEL : S8(I,R)25G□-T1
* HEAD MODEL : S8□A3□~S8□A200□



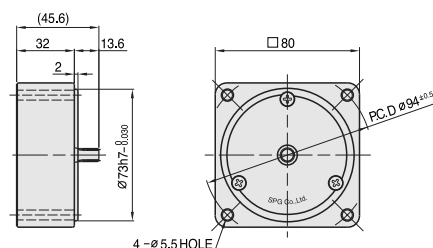
MOTOR

* MOTOR MODEL : S8(I,R)25□-T1



INTER-DECIMAL GEAR HEAD

* MODEL : S8GX10B

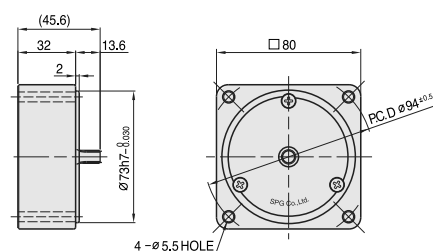


WEIGHT - (Table2)

PART		WEIGHT(kg)
MOTOR		1.60
REVERSIBLE MOTOR		1.65
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

INTER-DECIMAL GEAR HEAD

* MODEL : S8GX10B



WEIGHT - (Table2)

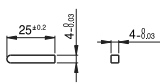
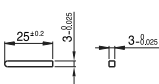
PART		WEIGHT(kg)
MOTOR		1.55
REVERSIBLE MOTOR		1.60
DECIMAL GEAR HEAD		0.43
GEAR HEAD	S8□A3□ ~S8□A18□	0.43
	S8□A20□ ~S8□A40□	0.57
	S8□A50□ ~S8□A200□	0.61

DIMENSIONS

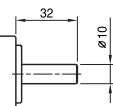
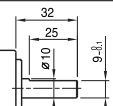
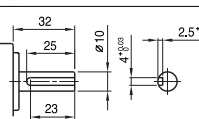
※26(35) – (Table 1)

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

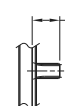
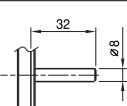
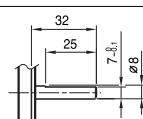
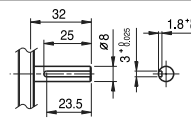
KEY SPEC

GEAR HEAD	MOTOR
	

✦ SPEC for output shaft of gearhead – (Table 3)

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

✦ SPEC for output shaft of motor – (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S8(I,R)25G□-T S8(I,R)25G□-T1	
STRAIGHT TYPE	
S8(I,R)25S□-T S8(I,R)25S□-T1	
D-CUT TYPE	
S8(I,R)25D□-T S8(I,R)25D□-T1	
KEY TYPE	
S8(I,R)25K□-T S8(I,R)25K□-T1	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

■ INDUCTION MOTOR

S8I25GA-T S8I25GB-T S8I25GC-T S8I25GD-T S8I25GA-T1S8I25GB-T1 S8I25GC-T1 S8I25GD-T1		S8I25GX-T S8I25GX-TCE S8I25GX-T1 S8I25GX-T1CE		S8I25GU-T S8I25GT-T S8I25GU-T1 S8I25GT-T1		S8I25GU-TCE S8I25GU-T1CE		S8I25GT-TCE S8I25GT-T1CE	
CW		CCW		CW,CCW		CW		CCW	

■ REVERSIBLE MOTOR

S8I25GS-TCE S8I25GS-T S8I25GS-T1CE S8I25GS-T1		S8R25GA-T, S8R25GB-T S8R25GA-T1, S8R25GB-T1 S8R25GC-T, S8R25GD-T S8R25GC-T1, S8R25GD-T1	S8R25GX-T, S8R25GX-TCE S8R25GX-T1, S8R25GX-T1CE	S8R25GA-T(TP), S8R25GB-T(TP), S8R25GC-T(TP), S8R25GD-T(TP), S8R25GA-T1(TP), S8R25GB-T1(TP), S8R25GC-T1(TP), S8R25GD-T1(TP), S8R25GA-TCE, S8R25GB-TCE, S8R25GC-TCE S8R25GD-TCE, S8R25GC-T, S8R25GB-TCE S8R25GA-T1CE, S8R25GB-T1CE, S8R25GC-T1CE S8R25GD-T1CE, S8R25GC-T1, S8R25GB-T1CE	
CW		CCW	CW,CCW	CW,CCW	CW,CCW

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.



40W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 90mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
90	S9I40GA()-T S9I40GA()-T1	4	40	1 Ø 110	60	Cont.	0.82	1600	2.50	0.250	2.90	0.290	10.0
	S9I40GB()-T S9I40GB()-T1	4	40	1 Ø 220	60	Cont.	0.41	1600	2.50	0.250	2.90	0.290	2.5
	S9I40GC()-T S9I40GC()-T1	4	40	1 Ø 100	50 60	Cont.	0.80 0.85	1300 1550	3.10 2.60	0.310 0.260	2.40	0.240	10.0
	S9I40GD()-T S9I40GD()-T1	4	40	1 Ø 200	50 60	Cont.	0.41 0.43	1300 1550	3.10 2.60	0.310 0.260	2.40	0.240	2.5
	S9I40GX()-T S9I40GX()-T1 S9I40GX()-TCE S9I40GX()-T1CE	4	40	1 Ø 220 1 Ø 240	50	Cont.	0.34 0.37	1250	3.15 3.35	0.320 0.355	1.80 2.10	0.180 0.210	2.0
	S9I40GU()-T S9I40GU()-T1 S9I40GU()-TCE S9I40GU()-T1CE	4	40	3 Ø 200	50 60	Cont.	0.36 0.33	1300 1550	3.10 2.60	0.310 0.260	6.30 5.20	0.630 0.520	—
	S9I40GT()-T S9I40GT()-T1 S9I40GT()-TCE S9I40GT()-T1CE	4	40	3 Ø 220	50 60	Cont.	0.39 0.33	1350 1600	3.00 2.50	0.300 0.250	7.60 6.10	0.760 0.610	—
	S9I40GS()-T S9I40GS()-T1 S9I40GS()-TCE S9I40GS()-T1CE	4	40	3 Ø 380	50 60	Cont.	0.21 0.19	1300 1550	3.20 2.70	0.320 0.270	6.30 4.85	0.630 0.485	—
					50 60	Cont.	0.21 0.19	1300 1550	3.30 2.80	0.330 0.280	6.90 5.25	0.690 0.525	
				3 Ø 415	50 60	Cont.	0.21 0.19	1350 1600	3.10 2.60	0.310 0.260	7.30 5.70	0.730 0.570	
				3 Ø 440	50 60	Cont.	0.21 0.19	1350 1600	3.20 2.70	0.320 0.270	8.20 6.30	0.820 0.630	

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S9I40GX, S9I40GX-T, S9I40GS-T is thermally protected type with TP mounted.

❖ Be cautious when using a three-phase 380V motor controlled with inverter.

❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
90	S9R40GA() S9R40GA()-T S9R40GA()-T1 S9R40GA()-T1(TP) S9R40GA()-TCE S9R40GA()-T1CE	4	40	1 Ø 110	60	30min	1.00	1600	2.50	0.250	3.50	0.350	15.0
	S9R40GB() S9R40GB()-T S9R40GB()-T1 S9R40GB()-T1(TP) S9R40GB()-TCE S9R40GB()-T1CE	4	40	1 Ø 220	60	30min.	0.46	1600	2.50	0.250	3.50	0.350	3.5
	S9R40GC() S9R40GC()-T S9R40GC()-T1 S9R40GC()-T1(TP) S9R40GC()-TCE S9R40GC()-T1CE	4	40	1 Ø 100	50	30min.	0.84	1300	3.00	0.300	2.80	0.280	15.0
					60		1.00	1550	2.60	0.260			
	S9R40GD() S9R40GD()-T S9R40GD()-T1 S9R40GD()-T1(TP) S9R40GD()-TCE S9R40GD()-T1CE	4	40	1 Ø 200	50	30min.	0.39	1300	3.10	0.310	2.80	0.280	3.5
					60		0.47	1550	2.60	0.260			
	S9R40GE() S9R40GE()-T S9R40GE()-T1 S9R40GE()-TCE S9R40GE()-T1CE	4	40	1 Ø 100	50	30min.	0.86	1300	3.10	0.310	2.90	0.290	15.0
					60		1.00	1550	2.60	0.260			
				1 Ø 115	60		1.00	1550	2.70	0.270			12.0
	S9R40GX() S9R40GX()-T S9R40GX()-T1 S9R40GX()-TCE S9R40GX()-T1CE	4	40	1 Ø 220	50	30min.	0.40	1250	3.20	0.320	3.00	0.300	3.0
				1 Ø 240			0.42		3.40	0.340	3.20	0.320	

- ❖ Appropriate capacitors shall be used according to the voltage for S9R40GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.
- ❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE. S9R40GE-TCE is available only for 115V specification.
- ❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.
- S9R40GE-T, S9R40GX-T is thermally protected type with TP mounted.
- ❖ Above data is measured with friction brake mounted.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	8.3	9.9	13.8	16.5	20.7	24.8	27.5	34.4	41.3	49.6	49.6	62.1	74.5	89.4	99.3	100	100	100	100	100	100	100	100	100
S9KB□()	N·m	0.813	0.970	1.352	1.617	2.029	2.430	2.695	3.371	4.047	4.861	4.861	6.086	7.301	8.761	9.731	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800

60Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	6.8	8.2	11.3	13.6	17.0	20.4	22.7	28.4	34.0	40.8	40.9	51.1	61.3	73.6	81.8	100	100	100	100	100	100	100	100	100
S9KB□()																									
	N·m	0.666	0.804	1.107	1.333	1.666	1.999	2.225	2.783	3.332	3.998	4.008	5.008	6.007	7.213	8.016	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800	9.800

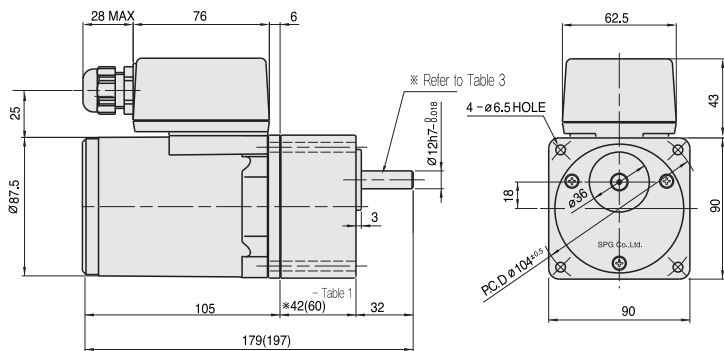
- ❖ The code in () of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 100 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
- Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
- The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with motor 'L' and 'H' should be used with motor 'H'.

DIMENSIONS

+ GEARED MOTOR

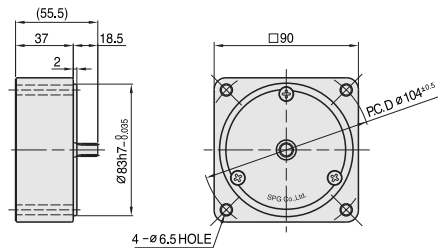
※MOTOR MODEL : S9(I,R)40G□□-T

※HEAD MODEL : S9□B3□□~S9□B200□□



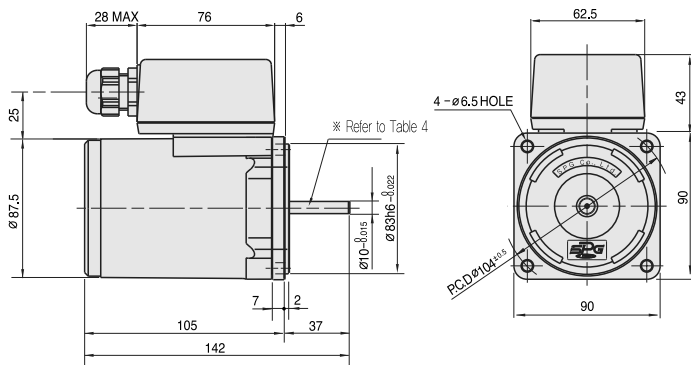
+ INTER-DECIMAL GEAR HEAD

※MODEL : S9GX10B(H,L)



+ MOTOR

※MOTOR MODEL : S9(I,R)40□□□-T



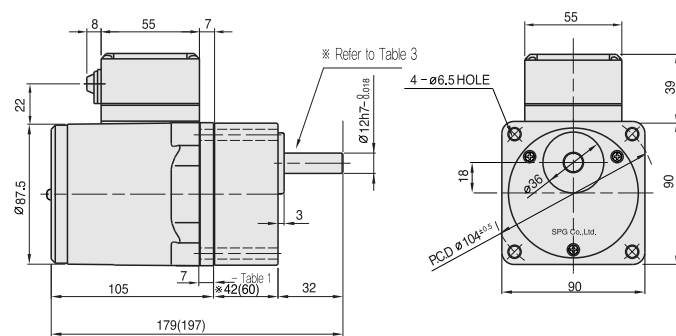
+ WEIGHT – (Table2)

PART		WEIGHT(kg)
MOTOR		2.45
REVERSIBLE MOTOR		2.50
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

+ GEARED MOTOR

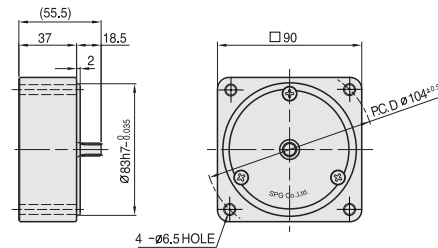
※MOTOR MODEL : S9(I,R)40G□□-T1

※ HEAD MODEL : S9□B3□□~S9□B200□



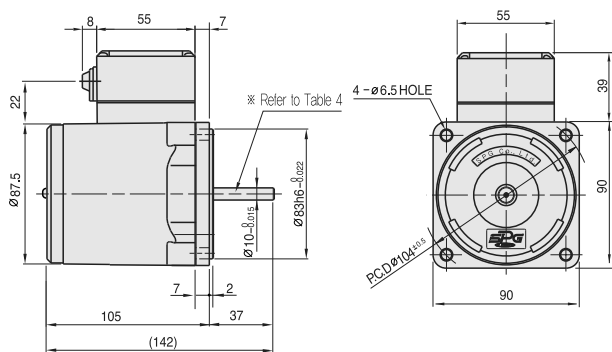
INTER-DECIMAL GEAR HEAD

※MODEL : S9GX10B(H,L)



+ MOTOR

※MOTOR MODEL : S9(I,R)40□□□-T1



+ WEIGHT – (Table2)

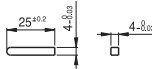
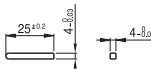
PART		WEIGHT(kg)
MOTOR		2.40
REVERSIBLE MOTOR		2.45
DECIMAL GEAR HEAD		0.60
GEAR HEAD	S9□B3□□ ~S9□B18□□	0.73
	S9□B20□□ ~S9□B40□□	1.03
	S9□B50□□ ~S9□B200□□	1.13

DIMENSIONS

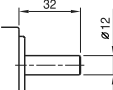
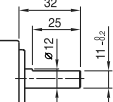
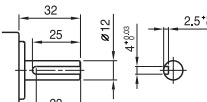
※26(35) – (Table 1)

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

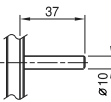
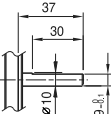
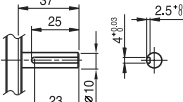
KEY SPEC

GEAR HEAD	MOTOR
	

✦ SPEC for output shaft of gearhead – (Table 3)

MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SB3□□ ~S9SB200□□	
D-CUT TYPE	
S9DB3□□ ~S9DB200□□	
KEY TYPE	
S9IRB3□□ ~S9IR200□□	

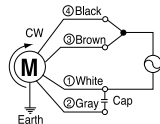
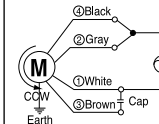
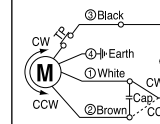
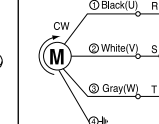
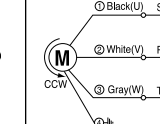
✦ SPEC for output shaft of motor – (Table 4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9(I,R)40G□□-T S9(I,R)40G□□-T1	
STRAIGHT TYPE	
S9(I,R)40S□□-T S9(I,R)40S□□-T1	
D-CUT TYPE	
S9(I,R)40D□□-T S9(I,R)40D□□-T1	
KEY TYPE	
S9(I,R)40K□□-T S9(I,R)40K□□-T1	

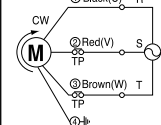
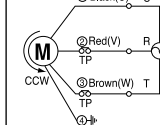
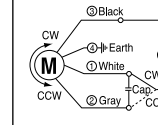
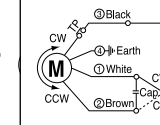
SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

■ INDUCTION MOTOR

S9I40GA()-T S9I40GB()-T S9I40GC()-T S9I40GD()-T S9I40GA()-T1 S9I40GB()-T1 S9I40GC()-T1 S9I40GD()-T1	S9I40GX()-T S9I40GX()-TCE S9I40GX()-T1 S9I40GX()-T1CE	S9I40GU()-T S9I40GT()-T S9I40GU()-T1 S9I40GT()-T1	S9I40GU()-TCE S9I40GU()-T1CE	S9I40GT()-TCE S9I40GT()-T1CE
CW	CCW	CW,CCW	CW	CCW
				

■ REVERSIBLE MOTOR

S9I40GS()-TCE S9I40GS()-T S9I40GS()-T1CE S9I40GS()-T1		S9R40GA()-T, S9R40GB()-T S9R40GA()-T1, S9R40GB()-T1 S9R40GC()-T, S9R40GD()-T S9R40GC()-T1, S9R40GD()-T1	S9R40GX()-T, S9R40GX()-TCE S9R40GX()-T1, S9R40GX()-T1CE	S9R40GA()-T(TP), S9R40GB()-T(TP), S9R40GC()-T(TP), S9R40GD()-T(TP), S9R40GA()-T1(TP), S9R40GB()-T1(TP), S9R40GC()-T1(TP), S9R40GD()-T1(TP), S9R40GA()-TCE, S9R40GB()-TCE, S9R40GC()-TCE S9R40GD()-TCE, S9R40GE()-T, S9R40GE()-TCE S9R40GA()-T1CE, S9R40GB()-T1CE, S9R40GC()-T1CE S9R40GD()-T1CE, S9R40GE()-T1, S9R40GE()-T1CE	
CW		CCW	CW,CCW	CW,CCW	
					

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.



60W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 90mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
90	S9I60GA()-T S9I60GA()-T1	4	60	1 Ø 110	60	Cont.	1.35	1600	3.80	0.380	4.80	0.480	15.0
	S9I60GB()-T S9I60GB()-T1	4	60	1 Ø 220	60	Cont.	0.68	1600	3.90	0.390	4.80	0.480	4.0
	S9I60GC()-T S9I60GC()-T1	4	60	1 Ø 100	50	Cont.	1.26	1300	4.60	0.460	3.40	0.340	15.0
					60		1.37	1550	3.90	0.390			
	S9I60GD()-T S9I60GD()-T1	4	60	1 Ø 200	50	Cont.	0.65	1300	4.70	0.470	3.85	0.385	4.0
					60		0.70	1550	4.00	0.400			
	S9I60GX()-T S9I60GX()-T1 S9I60GX()-TCE S9I60GX()-T1CE	4	60	1 Ø 220	50	Cont.	0.47	1300	4.60	0.460	3.20	0.320	3.5
				1 Ø 240			0.50		4.90	0.490	3.90	0.390	
	S9I60GU()-T S9I60GU()-T1 S9I60GU()-TCE S9I60GU()-T1CE	4	60	3 Ø 200	50	Cont.	0.60	1300	4.60	0.460	9.30	0.930	—
					60		0.50	1550	3.90	0.390	8.00	0.800	
	S9I60GT()-T S9I60GT()-T1 S9I60GT()-TCE S9I60GT()-T1CE	4	60	3 Ø 220	50	Cont.	0.80	1350	4.40	0.440	11.35	1.135	—
					60		0.57	1600	3.90	0.390	9.30	0.930	
	S9I60GS()-T S9I60GS()-T1 S9I60GS()-TCE S9I60GS()-T1CE	4	60	3 Ø 380	50	Cont.	0.27	1300	4.60	0.460	8.25	0.825	—
					60		0.24	1550	3.90	0.390	6.50	0.650	
				3 Ø 400	50	Cont.	0.29	1300	4.70	0.470	9.30	0.930	
					60		0.25	1550	4.00	0.400	7.35	0.735	
				3 Ø 415	50	Cont.	0.27	1350	4.60	0.460	9.95	0.995	
					60		0.23	1600	3.80	0.380	7.50	0.750	
				3 Ø 440	50	Cont.	0.31	1350	4.70	0.470	10.75	1.075	
					60		0.25	1600	3.90	0.390	8.40	0.840	

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S9I40GX, S9I40GX-T, S9I40GS-T is thermally protected type with TP mounted.

❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

REVERSIBLE MOTOR - 30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
90	S9R60GA()-T S9R60GA()-T1 S9R60GA()-T1(TP) S9R60GA()-T1(TP) S9R60GA()-TCE S9R60GA()-T1CE	4	60	1 Ø 110	60	30min.	1.60	1600	3.80	0.380	7.00	0.700	25.0
	S9R60GB()-T S9R60GB()-T1 S9R60GB()-T1(TP) S9R60GB()-T1(TP) S9R60GB()-TCE S9R60GB()-T1CE	4	60	1 Ø 220	60	30min.	0.75	1600	3.80	0.380	7.00	0.700	6.0
	S9R60GC()-T S9R60GC()-T1 S9R60GC()-T1(TP) S9R60GC()-T1(TP) S9R60GC()-TCE S9R60GC()-T1CE	4	60	1 Ø 100	50	30min.	1.40	1250	4.80	0.480	6.00	0.600	25.0
					60		1.60	1550	3.90	0.390			
	S9R60GD()-T S9R60GD()-T1 S9R60GD()-T1(TP) S9R60GD()-T1(TP) S9R60GD()-TCE S9R60GD()-T1CE	4	60	1 Ø 200	50	30min.	0.70	1250	4.80	0.480	5.50	0.550	6.0
					60		0.76	1550	3.90	0.390			
	S9R60GE()-T S9R60GE()-T1 S9R60GE()-T1(TP) S9R60GE()-T1(TP) S9R60GE()-TCE S9R60GE()-T1CE	4	60	1 Ø 100	50	30min.	1.40	1250	4.80	0.480	5.90	0.590	25.0
					60		1.60	1550	3.90	0.390			
				1 Ø 115	60		1.30	1600	3.90	0.390	6.00	0.600	20.0
	S9R60GX()-T S9R60GX()-T1CE S9R60GX()-TCE S9R60GX()-T1CE	4	60	1 Ø 220	50	30min.	0.63	1250	4.80	0.480	5.90	0.590	5.0
				1 Ø 240			0.67		5.00	0.500	6.30	0.630	

- ❖ Appropriate capacitors shall be used according to the voltage for S9R60GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.
- ❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE.
S9R60GE-TCE is available only for 115V specification.
- ❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.
S9R60GE-T, S9R60GX-T is thermally protected type with TP mounted.
- ❖ Above data is measured with friction brake mounted.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	12.2	14.6	20.3	24.3	30.4	36.5	40.5	45.6	54.8	65.7	73.0	82.5	99.0	119	132	165	198	200	200	200	200	200	200	200
S9KCB()-S		N-m	1.196	1.431	1.989	2.381	2.989	3.577	3.969	4.469	5.370	6.439	7.154	8.085	9.702	11.66	12.94	16.17	19.40	19.60	19.60	19.60	19.60	19.60	19.60

60Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	9.72	11.7	16.2	19.4	24.3	29.2	32.4	36.5	43.8	52.6	58.4	66.0	79.2	95.0	106	132	158	177	200	200	200	200	200	200
S9KCB()-S		N-m	0.953	1.147	1.588	1.901	2.381	2.862	3.175	3.577	4.292	5.155	5.723	6.468	7.762	9.310	10.39	12.94	15.48	17.35	19.60	19.60	19.60	19.60	19.60

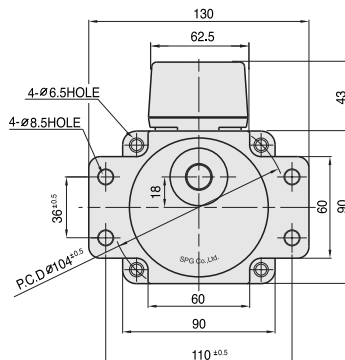
- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 200 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with motor 'L' and 'H' should be used with motor 'H'.

DIMENSIONS

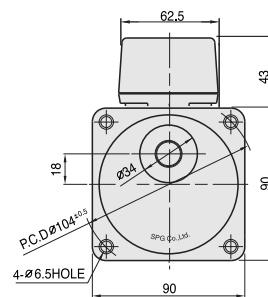
+ GEARED MOTOR

※MOTOR MODEL : S9(I,R)60G□□-T

※ HEAD MODEL □ : S9□C3B□-S~S9□C200B□-S

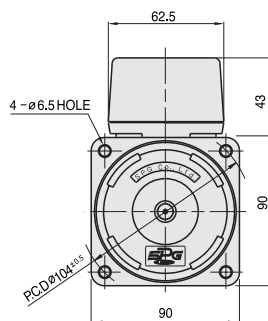


*HEAD MODEL : S9□C3B□~S9□C200B□



+ MOTOR

※MOTOR MODEL : S9(I,R)60□□□-T



+ INTER-DECIMAL GEAR HEAD

※ MODEL : S9GX10B(H,L)-S



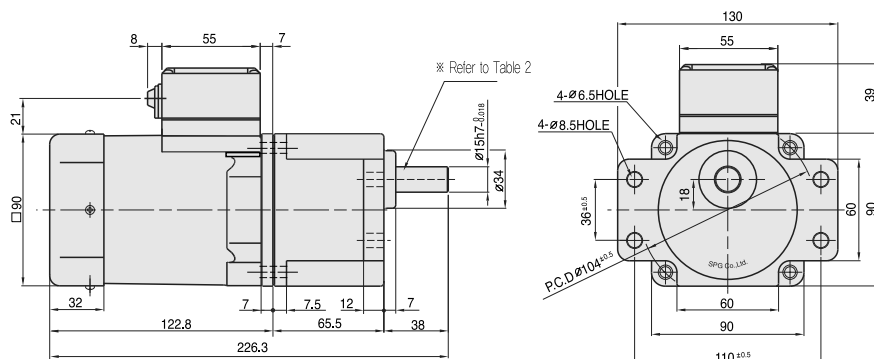
PART		WEIGHT(kg)
MOTOR		2,60
REVERSIBLE MOTOR		2,65
DECIMAL GEAR HEAD		0,65
GEAR HEAD	S9□C3B□ ~S9□C10B□	1,21
	S9□C12.5B□ ~S9□C20B□	1,30
	S9□C25B□ ~S9□C60B□	1,40
	S9□C75B□ ~S9□C200B□	1,45

DIMENSIONS

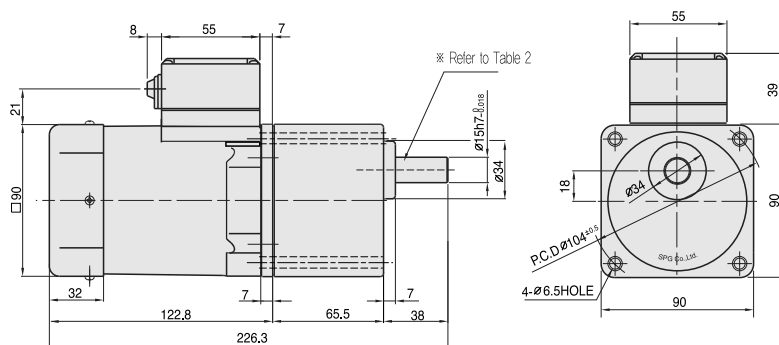
✚ GEARED MOTOR

※ MOTOR MODEL : S9(I,R)60G□□-T1

※ HEAD MODEL : S9□C3B□-S-S9□C200B□-S

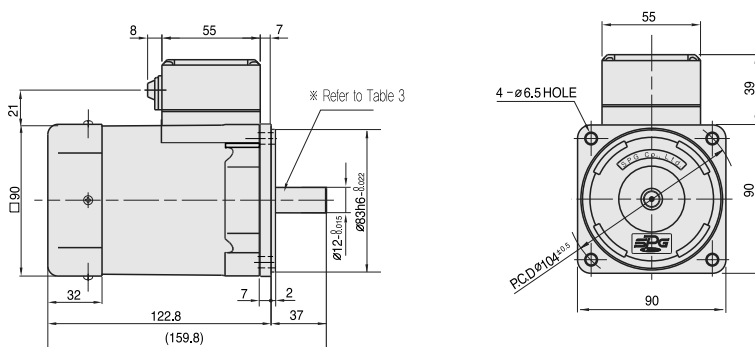


※ HEAD MODEL □ : S9□C3B□-S9□C200B□



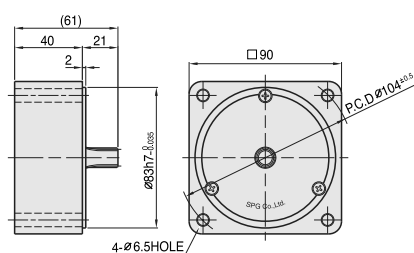
✚ MOTOR

※ MOTOR MODEL : S9(I,R)60□□□-T1



✚ INTER-DECIMAL GEAR HEAD

※ MODEL : S9GX10B(H,L)-S



✚ WEIGHT - (Table1)

PART		WEIGHT(kg)
MOTOR		2.55
REVERSIBLE MOTOR		2.60
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 gearhead - (Table2)

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

✚ SPEC for output shaft of motor - (Table3)

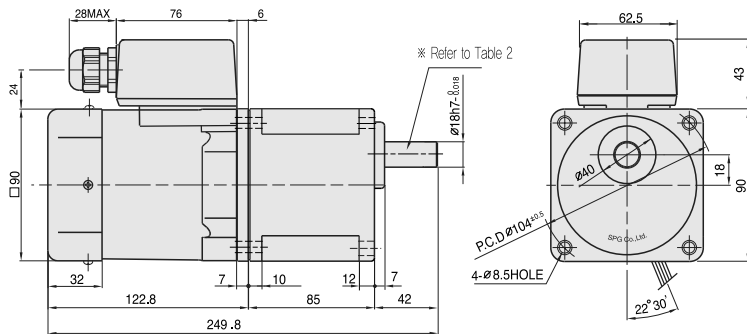
MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9(I,R)60G□□-T S9(I,R)60G□□-T1	
STRAIGHT TYPE	
S9(I,R)60S□-T S9(I,R)60S□-T1	
D-CUT TYPE	
S9(I,R)60D□-T S9(I,R)60D□-T1	
KEY TYPE	
S9(I,R)60K□-T S9(I,R)60K□-T1	

DIMENSIONS

+ GEARED MOTOR

※ MOTOR MODEL : S9(L,R)60G□H-T

※HEAD MODEL : S9□D3B~S9□D200B



+ WEIGHT – (Table2)

PART		WEIGHT(kg)
MOTOR		2.60
GEAR HEAD	S9□D3B ~S9□D10B	1.65
	S9□D12.5B ~S9□D20B	1.80
	S9□D25B ~S9□D60B	1.90
	S9□D75B ~S9□D200B	1.95

+ KEY SPEC

GEAR HEAD

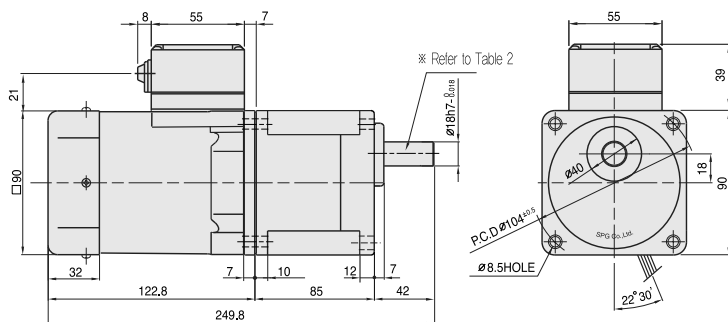
Technical drawing of a gear head showing two views: a front view and a side view. The front view shows a cylindrical gear with a diameter of 27.5 ± 0.2 and a width of $5 - 0.03$. The side view shows a smaller cylindrical component with a diameter of $5 - 0.03$.

DIMENSIONS

+ GEARED MOTOR

※MOTOR MODEL : S9(I,R)60G□H-T1

※HEAD MODEL : S9□D3B~S9□D200B



+ WEIGHT – (Table 1)

PART		WEIGHT(kg)
MOTOR		2.55
GEAR HEAD	S9□D3B ~S9□D10B	1.65
	S9□D12.5B ~S9□D20B	1.80
	S9□D25B ~S9□D60B	1.90
	S9□D75B ~S9□D200B	1.95

+ KEY SPEC

GEAR HEAD

+ SPEC for output shaft of gearhead – (Table 2)

MODEL	TYPES OF OUTPUT SHAFT	MODEL	TYPES OF OUTPUT SHAFT	MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE		D-CUT TYPE		KEY TYPE	
S9SD3B ~S9SD200B		S9DD3B ~S9DD200B		S9KDB ~S9KD200B	

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	12.2	14.6	20.3	24.3	30.4	36.5	40.5	45.6	54.8	65.7	73.0	82.5	99.0	119	132	165	198	221	266	295	300	300	300	300
S9KD□□	N·m	1.196	1.431	1.989	2.381	2.989	3.577	3.969	4.469	5.370	6.439	7.154	8.085	9.702	11.66	12.94	16.17	19.40	21.67	26.09	28.93	29.42	29.42	29.42	29.42

60Hz

GEAR RATIO	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	45	36	30	24	20	18	15	12	10	9
MODEL	kg-cm	9.72	11.7	16.2	19.4	24.3	29.2	32.4	36.5	43.8	52.6	58.4	66.0	79.2	95.0	106	132	158	177	212	236	283	300	300
	N·m	0.953	1.147	1.588	1.901	2.381	2.862	3.175	3.577	4.292	5.155	5.723	6.468	7.762	9.310	10.39	12.94	15.48	17.35	20.79	23.14	27.75	29.42	29.42

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 300 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ Only "H" type is applicable. Please use "H" type motor.

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

■ INDUCTION MOTOR

S9I60GA()-T S9I60GB()-T S9I60GC()-T S9I60GD()-T S9I60GA()-T1 S9I60GB()-T1 S9I60GC()-T1 S9I60GD()-T1		S9I60GX()-T S9I60GX()-TCE S9I60GX()-T1 S9I60GX()-T1CE		S9I60GU()-T S9I60GT()-T S9I60GU()-T1 S9I60GT()-T1		S9I60GU()-TCE S9I60GU()-T1CE	S9I60GT()-TCE S9I60GT()-T1CE
CW		CCW		CW,CCW		CW	

■ REVERSIBLE MOTOR

S9I60GS()-TCE S9I60GS()-T S9I60GS()-T1CE S9I60GS()-T1		S9R60GA()-T, S9R60GB()-T S9R60GA()-T1, S9R60GB()-T1 S9R60GC()-T, S9R60GD()-T S9R60GC()-T1, S9R60GD()-T1		S9R60GX()-T, S9R60GX()-TCE S9R60GX()-T1, S9R60GX()-T1CE	S9R60GA()-T(TP), S9R60GB()-T(TP), S9R60GC()-T(TP), S9R60GD()-T(TP), S9R60GA()-T1(TP), S9R60GB()-T1(TP), S9R60GC()-T1(TP), S9R60GD()-T1(TP), S9R60GA()-TCE, S9R60GB()-TCE, S9R60GC()-TCE S9R60GD()-TCE, S9R60GE()-T, S9R60GE()-TCE S9R60GA()-T1CE, S9R60GB()-T1CE, S9R60GC()-T1CE S9R60GD()-T1CE, S9R60GE()-T1, S9R60GE()-T1CE
CW		CCW		CW,CCW	

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.



90W

INDUCTION MOTOR, REVERSIBLE MOTOR

□ 90mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting (kg-cm)	Torque (N-m)	Capacitor (uF)
			(W)	(V)	(Hz)		Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)				
90	S9I90GA()-T S9I90GA()-T1	4	90	1 Ø 110	60	Cont.	2.00	1600	5.60	0.560	5.70	0.570	25.0
	S9I90GB()-T S9I90GB()-T1	4	90	1 Ø 220	60	Cont.	1.00	1600	5.60	0.560	5.70	0.570	6.0
	S9I90GC()-T S9I90GC()-T1	4	90	1 Ø 100	50 60	Cont.	1.80 2.00	1300 1550	6.90 5.80	0.690 0.580	5.00	0.500	25.0
	S9I90GD()-T S9I90GD()-T1	4	90	1 Ø 200	50 60	Cont.	0.90 1.00	1300 1550	6.90 5.80	0.690 0.580	5.00	0.500	6.0
	S9I90GX()-T S9I90GX()-T1 S9I90GX()-TCE S9I90GX()-T1CE	4	90	1 Ø 220 1 Ø 240	50	Cont.	0.68 0.72	1300	6.90 7.20	0.690 0.720	4.80 5.20	0.480 0.520	5.0
	S9I90GU()-T S9I90GU()-T1 S9I90GU()-TCE S9I90GU()-T1CE	4	90	3 Ø 200	50 60	Cont.	0.63 0.60	1300 1550	6.90 6.00	0.690 0.600	10.60 8.90	1.060 0.890	—
	S9I90GT()-T S9I90GT()-T1 S9I90GT()-TCE S9I90GT()-TCE1	4	90	3 Ø 220	50 60	Cont.	0.68 0.55	1350 1600	6.80 5.70	0.680 0.570	13.00 10.50	1.300 1.050	—
	S9I90GS()-T S9I90GS()-T1 S9I90GS()-TCE S9I90GS()-TCE	4	90	3 Ø 380	50 60	Cont.	0.32 0.30	1300 1550	6.80 5.70	0.680 0.570	10.55 8.20	1.055 0.820	—
							3 Ø 400	50 60	Cont.	0.35 0.32	1300 1550	6.90 5.80	
				3 Ø 415	50 60	Cont.				0.33 0.29	1350 1600	6.80 5.70	
							3 Ø 440	50 60	Cont.	0.35 0.31	1350 1600	6.90 5.80	

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.

S9I40GX, S9I40GX-T, S9I40GS-T is thermally protected type with TP mounted.

❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

REVERSIBLE MOTOR-30MINUTES RATING

SIZE mm sq.	Type	Poles	Output (W)	Voltage (V)	Frequency (Hz)	Duty	Rated Load				Starting Torque		Capacitor (uF)
							Current (A)	Speed (rpm)	Torque		(kg-cm)	(N-m)	
90	S9R90GA()-T S9R90GA()-T1 S9R90GA()-T1(TP) S9R90GA()-T1(TP) S9R90GA()-TCE S9R90GA()-TICE	4	90	1 Ø 110	60	30min.	2.25	1550	5.80	0.580	8.50	0.850	30.0
	S9R90GB()-T S9R90GB()-T1 S9R90GB()-T1(TP) S9R90GB()-T1(TP) S9R90GB()-TCE S9R90GB()-TICE	4	90	1 Ø 220	60	30min.	1.00	1550	5.80	0.580	8.50	0.850	7.0
	S9R90GC()-T S9R90GC()-T1 S9R90GC()-T1(TP) S9R90GC()-T1(TP) S9R90GC()-TCE S9R90GC()-TICE	4	90	1 Ø 100	50	30min.	2.10	1200	7.50	0.750	6.50	0.650	30.0
					60		2.25	1500	6.00	0.600			
	S9R90GD()-T S9R90GD()-T1 S9R90GD()-T1(TP) S9R90GD()-T1(TP) S9R90GD()-TCE S9R90GD()-TICE	4	90	1 Ø 200	50	30min.	0.90	1200	7.50	0.750	6.50	0.650	7.0
					60		1.00	1500	6.00	0.600			
	S9R90GE()-T S9R90GE()-T1 S9R90GE()-TCE S9R90GE()-TICE	4	90	1 Ø 100	50	30min.	1.80	1200	7.50	0.750	6.50	0.650	30.0
					60		1.90	1500	6.00	0.600			
				1 Ø 115	60		1.80	1550	6.00	0.600	8.00	0.800	25.0
	S9R90GX()-T S9R90GX()-T1 S9R90GX()-TCE S9R90GX()-TICE	4	90	1 Ø 220	50	30min.	0.82	1250	7.20	0.720	6.50	0.650	6.0
				1 Ø 240			0.86		7.40	0.740	8.00	0.800	

- ❖ Appropriate capacitors shall be used according to the voltage for S9R60GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.
- ❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE.
S9R60GE-TCE is available only for 115V specification.
- ❖ TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.
S9R60GE-T, S9R60GX-T is thermally protected type with TP mounted.
- ❖ Above data is measured with friction brake mounted.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
S9K□□B ()	kg-cm	18.2	21.9	30.4	36.5	45.6	54.7	60.8	68.4	82.1	98.6	110	124	149	178	198	200	200	200	200	200	200	200	200	200
S9K□□B ()-S	N·m	1.784	2.146	2.979	3.577	4.469	5.361	5.958	6.703	8.046	9.663	10.78	12.15	14.60	17.44	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

60Hz

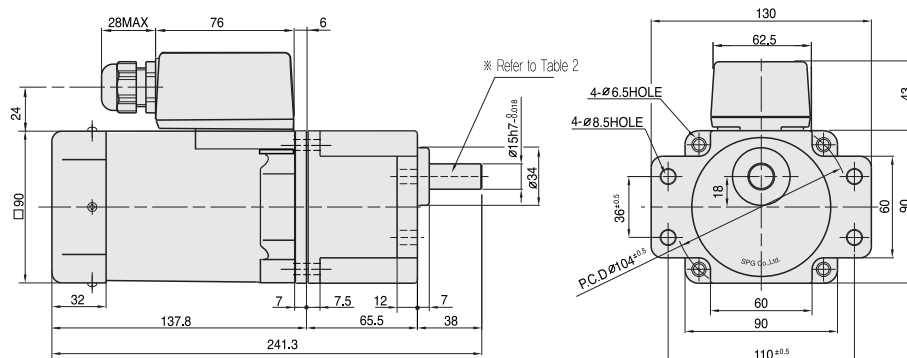
GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S9KC□B()	kg-cm	14.6	17.5	24.3	29.2	36.5	43.7	48.6	54.8	65.7	78.8	87.6	99.0	119	143	158	198	200	200	200	200	200	200	200	200
S9KC□B()-S	N·m	1.431	1.715	2.381	2.862	3.577	4.675	4.763	5.370	6.439	7.722	8.585	9.702	11.66	14.01	15.48	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 200 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ () is for marking 'L' type or 'H'. 'L' should be used with motor 'L' and 'H' should be used with motor 'H'.

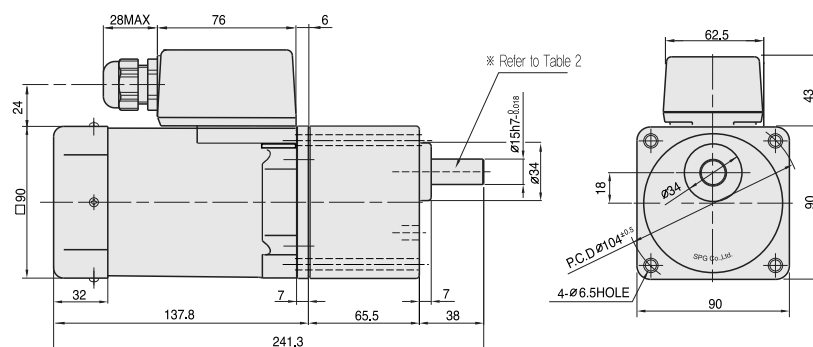
DIMENSIONS

✦ GEARED MOTOR

- ※ MOTOR MODEL : S9(I,R)90G□□-T
 ※ HEAD MODEL : S9□C3B□-S~S9□C200B□-S

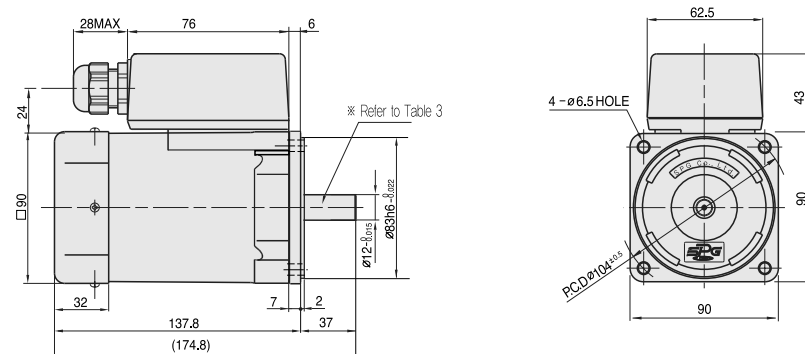


- ※ HEAD MODEL □ : S9□C3B□~S9□C200B□



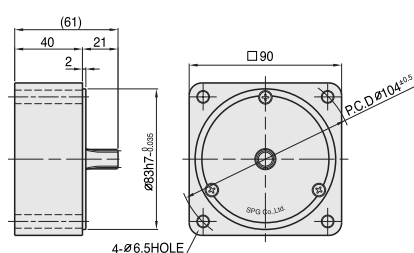
✦ MOTOR

- ※ MOTOR MODEL : S9(I,R)90□□□-T



✦ INTER-DECIMAL GEAR HEAD

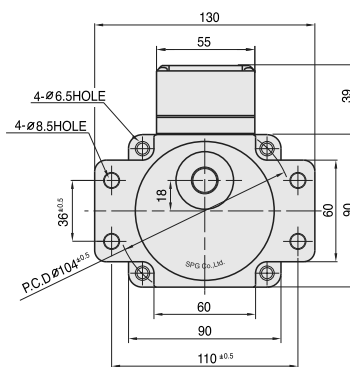
- ※ MODEL : S9GX10B(H,L)-S



✦ WEIGHT - (Table1)

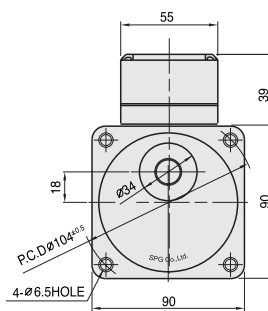
PART		WEIGHT(kg)
MOTOR		3.10
REVERSIBLE MOTOR		3.15
DECIMAL GEAR HEAD		0.65
GEAR HEAD	S9□C3B□ ~S9□C10B□	1.21
	S9□C12.5B□ ~S9□C20B□	1.30
	S9□C25B□ ~S9□C60B□	1.40
	S9□C75B□ ~S9□C200B□	1.45

※ MOTOR MODEL : S9(I,R)90G□□-T1
※ HEAD MODEL : S9□C3B□-S~S9□C200B□-S

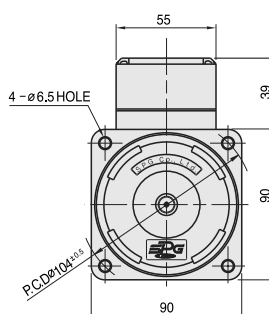
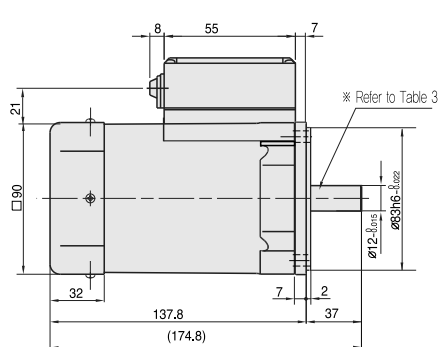


Technical drawing of a mechanical part, likely a bearing housing, showing dimensions in millimeters. The drawing includes a side view and a cross-sectional view. Key dimensions include:

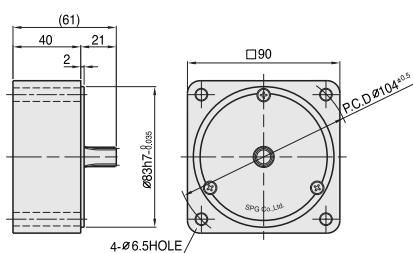
- Overall length: 241.3
- Overall width: 90
- Section widths (from left to right): 8, 55, 7, 32, 137.8, 65.5, 38
- Internal features: A central bore with a diameter of $\phi 57.5_{-0.018}^{+0.015}$ and a smaller bore with a diameter of $\phi 34$.
- Note: * Refer to Table 2



※MOTOR MODEL : S9(I,R)90□□□-T1



※MODEL : S9GX10B(H,L)-S



PART		WEIGHT(kg)
MOTOR		3.05
REVERSIBLE MOTOR		3.10
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

GEAR HEAD	MOTOR

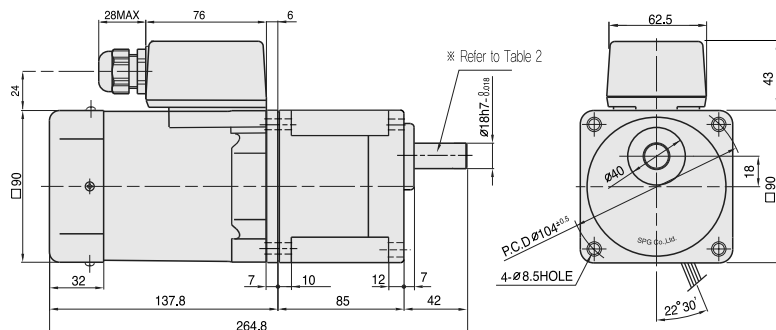
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SC3B□ ~S9SC200B□	
D-CUT TYPE	
S9DC3B□ ~S9DC200B□	
KEY TYPE	
S9KC3B□ ~S9KC200B□	

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9(I,R)90G□□-T S9(I,R)90G□□-T1	
STRAIGHT TYPE	
S9(I,R)90S□□-T S9(I,R)90S□□-T1	
D-CUT TYPE	
S9(I,R)90D□□-T S9(I,R)90D□□-T1	
KEY TYPE	
S9(I,R)90K□□-T S9(I,R)90K□□-T1	

DIMENSIONS

+ GEARED MOTOR

※ MOTOR MODEL : S9(I,R)90G□H-T
 ※ HEAD MODEL : S9□D3B~S9□D200B



+ WEIGHT - (Table2)

PART		WEIGHT(kg)
MOTOR		3.10
GEAR HEAD	S9□D3B ~S9□D10B	1.65
	S9□D12.5B ~S9□D20B	1.80
	S9□D25B ~S9□D60B	1.90
	S9□D75B ~S9□D200B	1.95

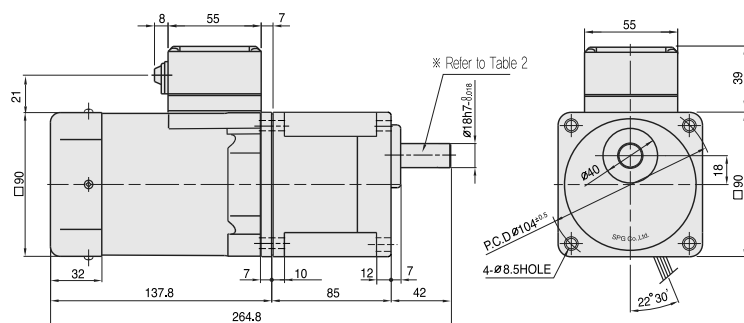
+ KEY SPEC

GEAR HEAD

DIMENSIONS

+ GEARED MOTOR

※ MOTOR MODEL : S9(I,R)90G□H-T1
 ※ HEAD MODEL : S9□D3B~S9□D200B



+ WEIGHT - (Table1)

PART		WEIGHT(kg)
MOTOR		3.05
GEAR HEAD	S9□D3B ~S9□D10B	1.65
	S9□D12.5B ~S9□D20B	1.80
	S9□D25B ~S9□D60B	1.90
	S9□D75B ~S9□D200B	1.95

+ KEY SPEC

GEAR HEAD

+ SPEC for output shaft of gearhead - (Table2)

MODEL	TYPES OF OUTPUT SHAF	MODEL	TYPES OF OUTPUT SHAF	MODEL	TYPES OF OUTPUT SHAF
S9SD3B ~S9SD200B	STRAIGHT TYPE	S9DD3B ~S9DD200B	D-CUT TYPE	S9KDB ~S9KD200B	KEY TYPE

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
S9KD 	kg-cm	18.2	21.9	30.4	36.5	45.6	54.7	60.8	68.4	82.1	98.6	110	124	149	178	198	248	297	300	300	300	300	300	300	300
	N·m	1.784	2.146	2.979	3.577	4.469	5.361	5.958	6.703	8.046	9.663	10.78	12.15	14.60	17.44	19.40	24.32	29.13	29.42	29.42	29.42	29.42	29.42	29.42	29.42

60Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	14.6	17.5	24.3	29.2	36.5	43.7	48.6	54.8	65.7	78.8	87.6	99.0	119	143	158	198	238	266	300	300	300	300	300	300
S9KD□B	N·m	1.431	1.715	2.381	2.862	3.577	4.675	4.763	5.370	6.439	7.722	8.585	9.702	11.66	14.01	15.48	19.40	23.34	26.09	29.42	29.42	29.42	29.42	29.42	29.42

- ❖ The code in □ of gearhead model is for gear ratio.
- ❖ It is the permissible torque (in small letters to be consistent with others) of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 300 kg-cm.
- ❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- ❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
- ❖ The actual rotation speed can be 2~20% less than displayed value depending on the load.
- ❖ Only "H" type is applicable. Please use "H" type motor.

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.

■ INDUCTION MOTOR

S9I90GA()-T S9I90GB()-T S9I90GC()-T S9I90GD()-T S9I90GA()-T1S9I90GB()-T1 S9I90GC()-T1 S9I90GD()-T1		S9I90GX()-T S9I90GX()-TCE S9I90GX()-T1 S9I90GX()-T1CE		S9I90GU()-T S9I90GT()-T S9I90GU()-T1 S9I90GT()-T1		S9I90GU()-TCE S9I90GU()-T1CE	S9I90GT()-TCE S9I90GT()-T1CE
CW		CCW		CW,CCW		CW	CCW

■ REVERSIBLE MOTOR

S9I90GS()-TCE S9I90GS()-T S9I90GS()-T1CE S9I90GS()-T1		S9R90GA()-T, S9R90GB()-T S9R90GA()-T1, S9R90GB()-T1 S9R90GC()-T, S9R90GD()-T S9R90GC()-T1, S9R90GD()-T1		S9R90GX()-T, S9R90GX()-TCE S9R90GX()-T1, S9R90GX()-T1CE	S9R90GA()-T(TP), S9R90GB()-T(TP), S9R90GC()-T(TP), S9R90GD()-T(TP), S9R90GA()-T1(TP), S9R90GB()-T1(TP), S9R90GC()-T1(TP), S9R90GD()-T1(TP), S9R90GA()-TCE, S9R90GB()-TCE, S9R90GC()-TCE S9R90GD()-TCE, S9R90GE()-T, S9R90GE()-TCE S9R90GA()-T1CE, S9R90GB()-T1CE, S9R90GC()-T1CE S9R90GD()-T1CE, S9R90GE()-T1, S9R90GE()-T1CE
CW		CCW		CW,CCW	

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.



150W

INDUCTION MOTOR

□ 90mm TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting	Torque	Capacitor
			(W)	(V)	(Hz)		Current (A)	Speed (rpm)	Torque (kg-cm) (N-m)				
90	S9I150GU-T S9I150GU-T1 S9I150GU-TCE S9I150GU-T1CE	4	150	3 Ø 200	50	Cont.	1.0	1250	11.70	1.170	18.0	1.800	—
	60	0.9	1500	9.70	0.970		15.0	1.500					
	S9I150GT-T S9I150GT-T1 S9I150GT-TCE S9I150GT-T1CE	4	150	3 Ø 220	50	Cont.	1.0	1300	11.30	1.130	22.0	2.200	—
	60	0.9	1550	9.40	0.940		19.0	1.900					
	S9I150GS-T S9I150GS-T1 S9I150GS-TCE S9I150GS-T1CE	4	150	3 Ø 380	50	Cont.	0.46	1250	11.70	1.170	18.00	1.800	—
				60	0.42		1500	9.70	0.970	15.00	1.500		
				3 Ø 400	50	Cont.	0.49	1250	11.70	1.170	19.00	1.900	
					60		0.43	1500	9.70	0.970	16.00	1.900	

❖ Above model is a TP embedded and thermally protected type.

❖ CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.

❖ Only "H" type is applicable.

❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10	8	7.5
	kg-cm	23.1	27.7	38.5	46.2	57.7	69.3	77.0	86.6	104	125	139	156	187	224	249	300	300	300	300	300	300	300	300	300
S9KH□B	N-m	2.26	2.72	3.77	4.53	5.66	6.79	7.55	8.49	10.24	12.29	13.65	15.36	18.34	21.97	24.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42

60Hz

GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	kg-cm	23.2	27.8	38.7	46.4	58.0	69.6	77.4	87.0	104	125	139	156	188	225	250	300	300	300	300	300	300	300	300	300
S9KH□B	N-m	2.28	2.73	3.79	4.55	5.69	6.83	7.59	8.53	10.24	12.29	13.65	15.36	18.43	22.06	24.52	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42

❖ The code in □ of gearhead model is for gear ratio.

❖ It is the permissible torque (in small letters to be consistent with others) of the assembled motor and gearhead.

❖ The permissible torque of the motor and inter-decimal gearhead is 200 kg-cm.

❖ ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor.
Others indicate rotation in the opposite direction.

❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.

The actual rotation speed can be 2~20% less than displayed value depending on the load.

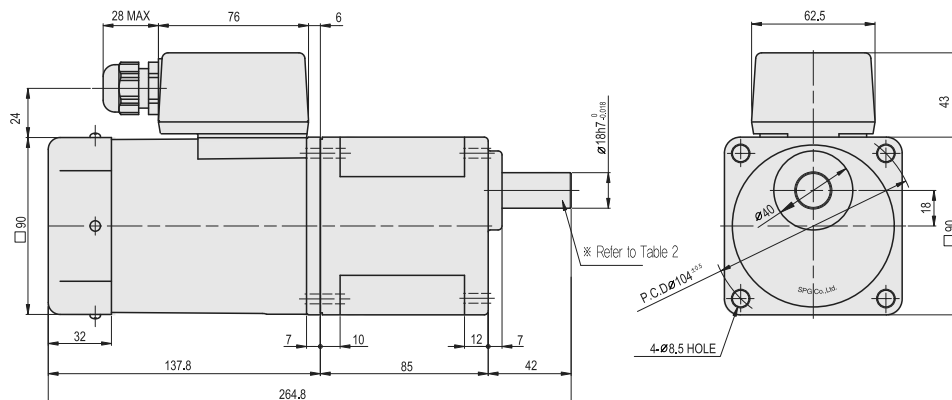
❖ For a three-phase 380V~440V motor, be cautious when using the inverter. When inverter is used, the insulation of winding becomes hot and may cause damage to motor.

DIMENSIONS

✚ GEARED MOTOR

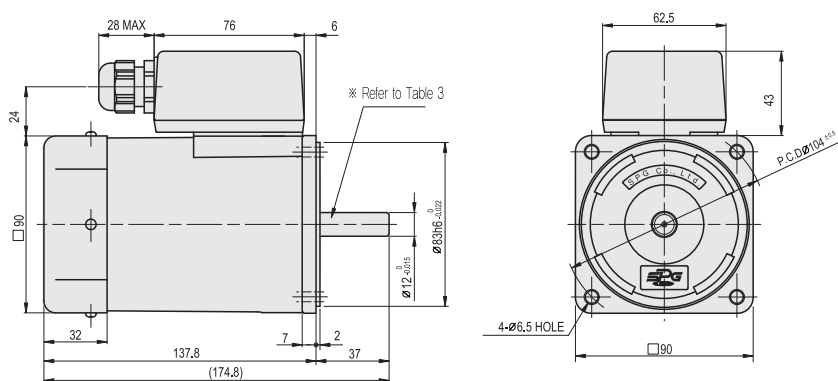
※ MOTOR MODEL : S9I150G□-T

※ HEAD MODEL : S9□H3B~S9□H200B



✚ MOTOR

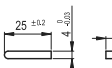
※ MOTOR MODEL : S9I150□□-T



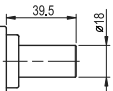
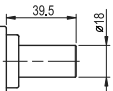
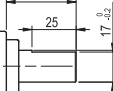
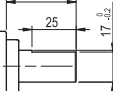
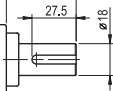
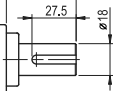
✚ WEIGHT - (Table1)

PART		WEIGHT(kg)
MOTOR		3.10
GEAR HEAD	S9□H3B ~S9□H10B	1.65
	S9□H12.5B ~S9□H20 B	1.80
	S9□H25B ~S9□H60B	1.90
	S9□H75B ~S9□H200B	1.95

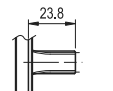
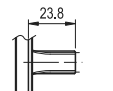
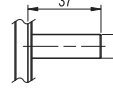
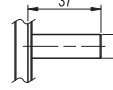
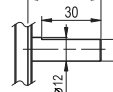
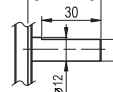
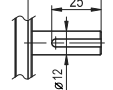
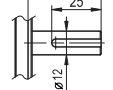
✚ KEY SPEC

GEAR HEAD	MOTOR
	

✚ 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)

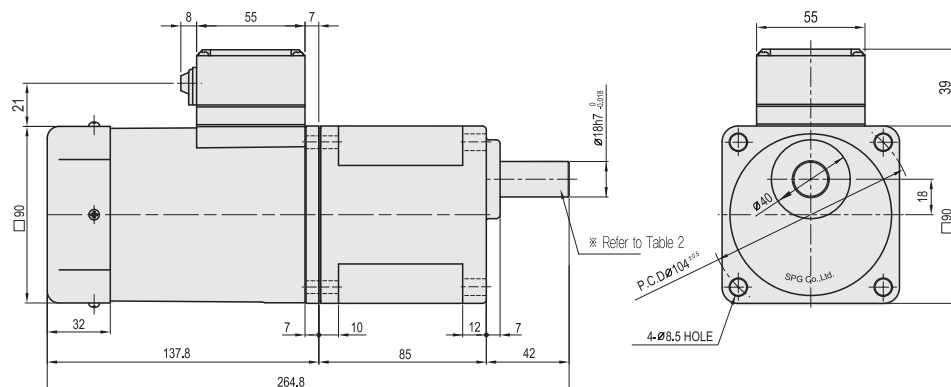
MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I150G□-T	
STRAIGHT TYPE	
S9I150S□-T	
D-CUT TYPE	
S9I150D□-T	
KEY TYPE	
S9I150K□-T	

DIMENSIONS

✦ GEARED MOTOR

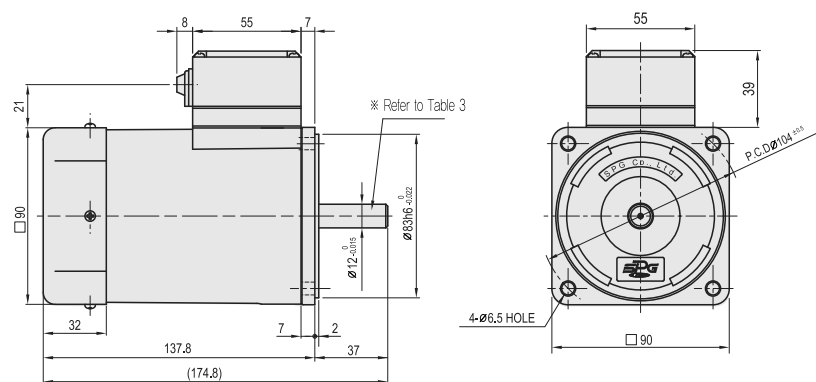
※ MOTOR MODEL : S9I150G□-T1

※ HEAD MODEL : S9□H3B~S9□H200B



✦ MOTOR

※ MOTOR MODEL : S9I150□□-T1



✦ WEIGHT - (Table1)

PART		WEIGHT(kg)
MOTOR		3.05
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

GEAR HEAD	MOTOR

✦ SPEC for output shaft of gearhead - (Table2)

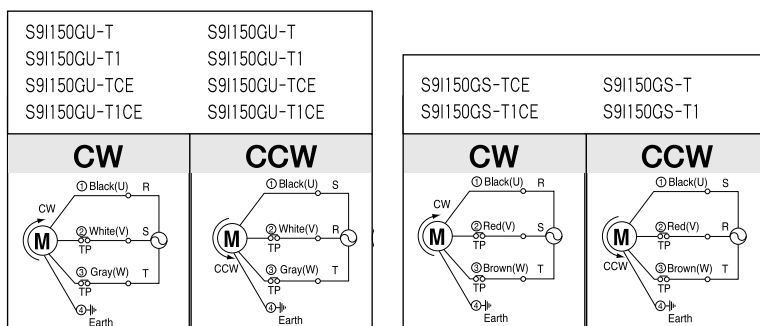
MODEL	TYPES OF OUTPUT SHAFT
STRAIGHT TYPE	
S9SH3B ~S9SH200B	
D-CUT TYPE	
S9DH3B ~S9DH200B	
KEY TYPE	
S9KH3B ~S9KH200B	

✦ SPEC for output shaft of motor - (Table3)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9I150G□-T1	
STRAIGHT TYPE	
S9I150S□-T1	
D-CUT TYPE	
S9I150D□-T1	
KEY TYPE	
S9I150K□-T1	

SCHEMATIC DIAGRAMS

The direction of motor rotation is as viewed from the front shaft end of the motor.
Circled number is the terminal number inside terminal box.



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.