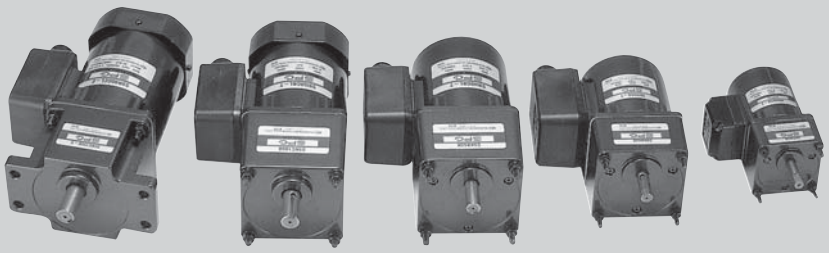
TERMINAL BOX TYPE MOTORS

INDEX



CODING SYSTEM

MOTOR

MAKER	SIZE	MOTOR TYPE	OUTPUT	SHAFT TYPE	VOLTAGE	GEAR TYPE		SPECIAL TYPE
S	9	I	40	G	B	H	-	E

MAKER
S : SPG Co., Ltd.

SIZE
6 : □60(㎜)
7 : □70(㎜)
8 : □80(㎜)
9 : □90(㎜)

MOTOR TYPE
I : Induction Motor
R : Reversible Motor

OUTPUT
03 : 3W
06 : 6W
15 : 15W
25 : 25W
40 : 40W
60 : 60W
90 : 90W
120 : 120W
150 : 150W
180 : 180W
200 : 200W

SHAFT TYPE
G : Gear Type
S : Straight Type
D : D-Cut Type
K : Key Type

VOLTAGE

A : 1ØAC 110V	60Hz	(4Pole)
B : 1ØAC 220V	60Hz	(4Pole)
C : 1ØAC 100V	50/60Hz	(4Pole)
D : 1ØAC 200V	50/60Hz	(4Pole)
E : 1ØAC 115V	60Hz	(4Pole)
X : 1ØAC 220~240V	50Hz	(4Pole)
U : 3ØAC 200V	50/60Hz	(4Pole)
T : 3ØAC 220V	50/60Hz	(4Pole)
S : 3ØAC 380~440V	50/60Hz	(4Pole)

GEAR TYPE
H : Heavy Impact
L : Light Impact

SPECIAL TYPE
E : Electro-magnetic Brake Type
T : Terminal Box Type(Terminal Block Type)
T1 : Terminal Box Type(PCB Type Terminal Block) (25~90W)
T2 : Conduit Box Type(25~90W)
B : Semi-Brake Type
S : Variable Speed Control(Pack Type)
S12 : T.G Voltage 12V Type
S24 : T.G Voltage 24V Type
V : Variable Speed Control(Unit Type)
V12 : T.G Voltage 12V Type
ES : Electro-Magnetic Brake
Variable Speed Control(Pack Type)
ES12 : T.G Voltage 12V Type
ES24 : T.G Voltage 24V Type

※ 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)

CONTROLLER TYPE	VOLTAGE	OUTPUT
SR	B	01

CONTROLLER TYPE
SR SERIES
※ NOTE) The applicable motor is for T.G. 12V.

VOLTAGE

A : 1Ø AC110V	60Hz	(4Pole)
B : 1Ø AC220V	60Hz	(4Pole)
C : 1Ø AC100V	50/60Hz	(4Pole)
D : 1Ø AC200V	50/60Hz	(4Pole)
E : 1Ø AC115V	60Hz	(4Pole)
X : 1Ø AC220~240V	50Hz	(4Pole)

OUTPUT
01 : 6W
02 : 15W~90W

SPEED CONTROLLER (SS PACK TYPE)

CONTROLLER TYPE	VOLTAGE	OUTPUT		RUN / STOP TYPE
SS	B	01	-	SRSS

CONTROLLER TYPE
SS SERIES
※ NOTE) The applicable motor is for T.G. 24V.

VOLTAGE

A : 1Ø AC110V	60Hz	(4Pole)
B : 1Ø AC220V	60Hz	(4Pole)
C : 1Ø AC100V	50/60Hz	(4Pole)
D : 1Ø AC200V	50/60Hz	(4Pole)
E : 1Ø AC115V	60Hz	(4Pole)
X : 1Ø AC220V~240V	50Hz	(4Pole)

OUTPUT
01 : 6W(Standard Type)
02 : 15W~40W(Standard Type)
03 : 6W~90W(High Output Type)

RUN / STOP TYPE
Slow Run Slow Stop

SPEED CONTROLLER (UNIT TYPE)

MAKER	CONTROLLER TYPE	OUTPUT	TYPE	VOLTAGE		T.G VOLTAGE
S	U	A	40	I	B	- V12

V12 : T.G Voltage 12V Type

A : 1Ø AC110V 60Hz (4Pole)
B : 1Ø AC220V 60Hz (4Pole)
C : 1Ø AC100V 50/60Hz (4Pole)
D : 1Ø AC200V 50/60Hz (4Pole)
E : 1Ø AC115V 60Hz (4Pole)
X : 1Ø AC220~240V 50Hz (4Pole)

I : Induction Motor
※ NOTE) Unit Type of Speed Controller does not have Reversible Motor.(715 Type : No marking)

06 : 6W **25** : 25W **90** : 90W
715 : 15W(□70) **40** : 40W **120** : 120W
15 : 15W(□80) **60** : 60W **180** : 180W

A : Analogue Type
D : Digital Type

U : Unit Type

S : SPG Co.,Ltd.

BRAKE PACK (CONTACT TYPE)

BRAKE TYPE	VOLTAGE		MOTOR TYPE
SB	B	-	IR

IR : 1Ø Motor
I : 3Ø Motor

A : 1Ø AC 110V 60Hz (4Pole)
B : 1Ø AC 220V 60Hz (4Pole)
C : 1Ø AC 100V 50/60Hz (4Pole)
D : 1Ø AC 200V 50/60Hz (4Pole)
X : 1Ø AC 220~240V 50Hz (4Pole)
U : 3Ø AC 200V 50/60Hz (4Pole)
T : 3Ø AC 220V 50/60Hz (4Pole)
S : 3Ø AC 380~440V 50/60Hz (4Pole)

SB SERIES

GEAR HEAD

MAKER	SIZE	SHAFT TYPE	OUTPUT	GEAR RATIO	BEARING TYPE	SHAFT IMPACT TYPE		SPECIAL TYPE
S	9	K	C	36	B	H	-	S

S : Flange Type

※
H : Heavy Impact
L : Light Impact

B : Ball bearing + Metal bearing(6W~40W)
All Ball bearing(60W MIN)
B1 : All Ball bearing(6W~40W)
M : Metal bearing(6W~40W)

Reduction Ratio(36:1/36)

T : 3W **C** : 60W~120W
A : 6W~ 25W **D** : 60W~120W
B : 40W **H** : 150W~200W

S : Straight Type
D : D-Cut Type
K : Key Type

6 : □60(㎜)
7 : □70(㎜)
8 : □80(㎜)
9 : □90(㎜)

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

S : SPG Co.,Ltd.

BRAKE PACK (NON CONTACT TYPE)

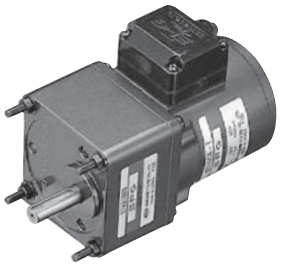
BRAKE TYPE	VOLTAGE		
SB	B	-	NCR

NCR : Non Contact Relay
ENCR : Brake type Non Contact Relay

A : 1Ø AC 110V 60Hz (4Pole)
B : 1Ø AC 220V 60Hz (4Pole)
C : 1Ø AC 100V 50/60Hz (4Pole)
D : 1Ø AC 200V 50/60Hz (4Pole)
X : 1Ø AC 220V~240V 50Hz (4Pole)

SB SERIES

CHARACTERISTICS OF TERMINAL BOX TYPE INDUCTION, REVERSIBLE MOTORS



1. Characteristics of Terminal Box Type Motors

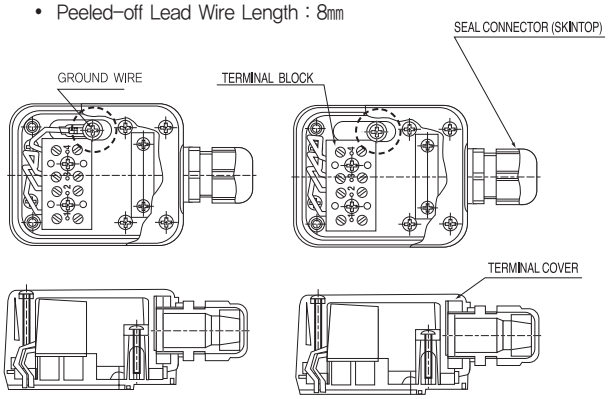
- The motor's charging section including leadwire is made airtight by the terminal box to provide the protection from dust and moisture.
- Therefore, the motor can be used in harsh environment.
- And the motor is made completely airtight with a gasket.
- The classification of the device protection structure 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 Ø6~Ø12.
- 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㎟ ~4.0㎟) shall be used for the lead wire, and the peeled-off lead wire shall be about 8㎜.

2. Diagram of Terminal Box Structure

(1) TERMINAL BLOCK BOX TYPE (T TYPE)

1) □80 15W ~ □90 90W

- Material of Terminal Box : Aluminum
- Applicable Cable Diameter : Ø6~Ø12
- Applicable Lead Wire : AWG 24~12(0.2~4.0㎟)
- Peeled-off Lead Wire Length : 8㎜

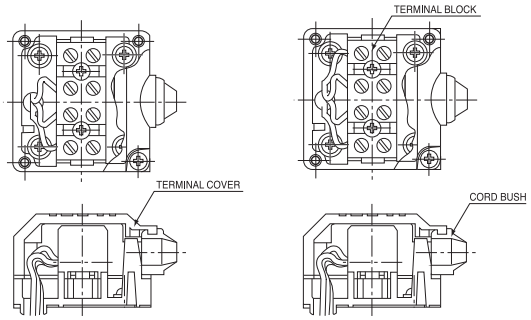


In case of Single-phase Reversible Motor
In case of Three-phase Reversible Motor

In case of Single-phase Induction Motor

2) □60 6W ~ □70 15W

- Material of Terminal Box : Plastic
- Applicable Cable Diameter : Ø6.8 ~ Ø8.6

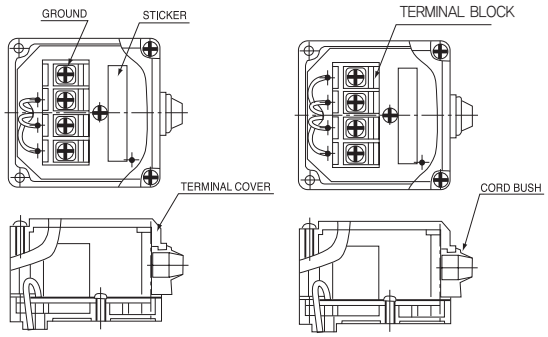


In case of Single-phase Reversible Motor

In case of Single-phase Induction Motor

(2) PCB TERMINAL BOX TYPE (T1 TYPE) : □80 25W ~ □90 90W

- Material of Terminal Box : Plastic
- Applicable Cable Diameter: : Ø6.8 ~ Ø8.6



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

In case of Single-phase Induction Motor

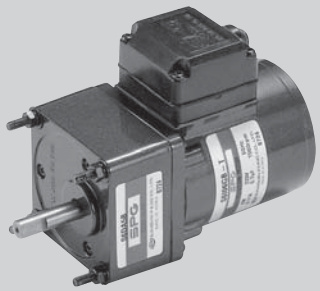
(3) CONDUIT BOX TYPE (T2 TYPE) : □80 25W ~ □90 90W

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	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 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℃ or less increase measured by thermometer after rated operation.
Insulation Class	Class B(130℃)
Overheat Protection Device	Built-in thermal protector (automatic return type) : Open 120℃±5℃ Close 76℃±15℃
Ambient Temperature	-10℃ ~ 40℃
Ambient Humidity	85% maximum(non condensing)



6W

INDUCTION MOTOR, REVERSIBLE MOTOR
□60㎜ TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
60	S6I06GA-T	4	6	1Ø 110	60	Cont.	0.20	1550	0.40	0.040	0.55	0.055	2.5
	S6I06GB-T	4	6	1Ø 220	60	Cont.	0.10	1550	0.40	0.040	0.55	0.055	0.7
	S6I06GC-T	4	6	1Ø 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	1Ø 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	1Ø 100	50	Cont.	0.18	1200	0.50	0.050	0.52	0.052	2.5
					60		0.19	1500	0.42	0.042			
				1Ø 115	60		0.19	1500	0.42	0.042	0.55	0.055	2.0
	S6I06GX-T S6I06GX-TCE	4	6	1Ø 220	50	Cont.	0.08	1200	0.50	0.050	0.50	0.050	0.6
				1Ø 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	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
60	S6R06GA-T S6R06GA-TCE	4	6	1Ø 110	60	30min.	0.22	1550	0.40	0.040	0.60	0.060	3.0
	S6R06GB-T S6R06GB-TCE	4	6	1Ø 220	60	30min.	0.11	1550	0.40	0.040	0.60	0.060	0.8
	S6R06GC-T	4	6	1Ø 100	50	30min.	0.21	1200	0.50	0.050	0.45	0.045	3.0
	S6R06GC-TCE				60			1500	0.42	0.042			
	S6R06GD-T	4	6	1Ø 200	50	30min.	0.10	1200	0.45	0.045	0.53	0.053	0.8
	S6R06GD-TCE				60			1500	0.42	0.042			
	S6R06GE-T	4	6	1Ø 100	50	30min.	0.19	1200	0.50	0.050	0.52	0.052	3.5
	S6R06GE-TCE				60		0.22	1500	0.30	0.030			
				1Ø 115	60		0.18	1500	0.42	0.042	0.50	0.050	2.3
	S6R06GX-T	4	6	1Ø 220	50	30min.	0.09	1200	0.47	0.047	0.50	0.050	0.7
	S6R06GX-TCE			1Ø 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
S6DA□B	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
	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	2.942

60Hz

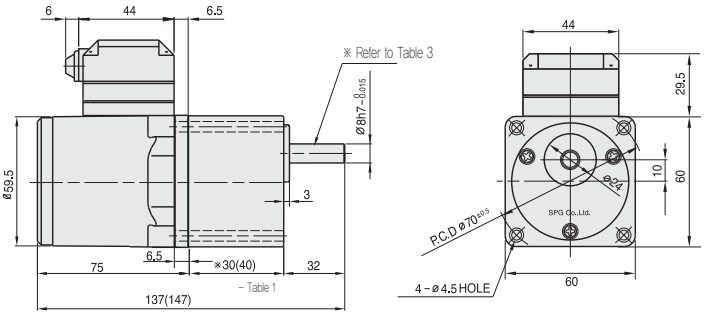
GEAR RATIO		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	250
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9	7.2
S6DA□B	kg-cm	1.0	1.3	1.7	2.1	2.6	3.1	3.5	4.4	5.2	6.3	6.3	7.8	9.4	11.3	12.6	14.2	17.0	21.3	25.5	28.4	30.0	30.0	30.0	30.0	30.0
	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	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

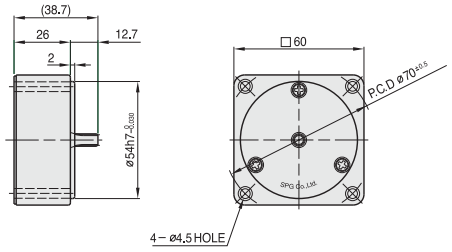
GEARED MOTOR

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



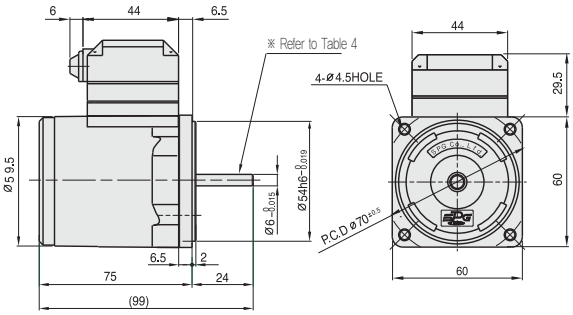
INTER-DECIMAL GEAR HEAD

※MODEL : S6GX10B



MOTOR

※MOTOR MODEL : S6(I,R)06□□-T



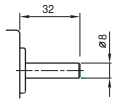
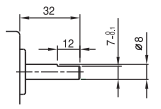
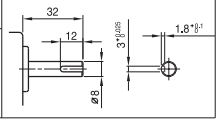
※26(35) - (Table 1)

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

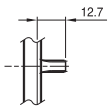
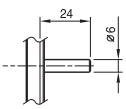
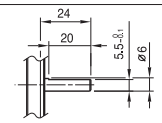
WEIGHT - (Table 2)

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

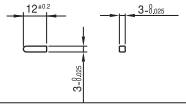
SPEC for output shaft of gearhead - (Table 3)

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


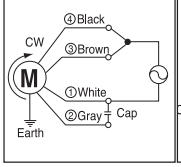
SCHEMATIC DIAGRAMS

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.

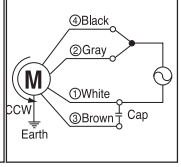
■INDUCTION MOTOR

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

CW

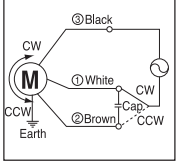


CCW



S6I06GX-TCE
S6I06GX-T

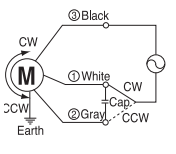
CW,CCW



■REVERSIBLE MOTOR

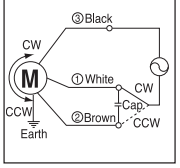
S6R06GA-T S6R06GB-T
S6R06GC-T S6R06GD-T
S6R06GA-TCE S6R06GB-TCE S6R06GC-TCE
S6R06GD-TCE S6R06GE-T S6R06GE-TCE

CW,CCW

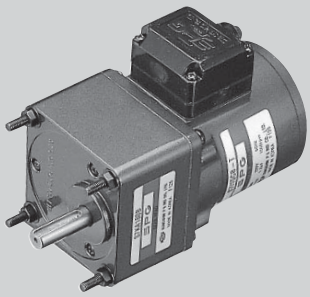


S6R06GX-TCE
S6R06GX-T

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.



15W

INDUCTION MOTOR, REVERSIBLE MOTOR
□70㎜ TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
70	S7I15GA-T	4	15	1Ø 110	60	Cont.	0.34	1600	1.00	0.100	1.10	0.110	5.0
	S7I15GB-T	4	15	1Ø 220	60	Cont.	0.19	1550	1.10	0.110	1.10	0.110	1.2
	S7I15GC-T	4	15	1Ø 100	50	Cont.	0.35	1250	1.20	0.120	0.90	0.090	5.0
					60		0.34	1550	1.00	0.100			
	S7I15GD-T	4	15	1Ø 200	50	Cont.	0.19	1200	1.25	0.125	0.90	0.090	1.2
					60		0.18	1500	1.20	0.120			
	S7I15GX-T	4	15	1Ø 220	50	Cont.	0.16	1200	1.25	0.125	0.75	0.075	0.9
	S7I15GX-TCE			1Ø 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 modelname indicates that it is standard motor with Thermal Protector mounted.
S7I15GX-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	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
70	S7R15GA-T S7R15GA-T(TP) S7R15GA-TCE	4	15	1Ø 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	1Ø 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	1Ø 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	1Ø 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	1Ø 100	50	30min.	0.37	1200	1.25	0.125	0.95	0.095	6.0
					60		0.41	1500	1.0	0.100			
				1Ø 115	60		0.35	1550	1.0	0.100			4.5
	S7R15GX-T S7R15GX-TCE	4	15	1Ø 220	50	30min.	0.17	1200	1.25	0.125	0.9	0.090	1.2
				1Ø 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 / MODEL		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	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
S7KA□B	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
	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	4.900

60Hz

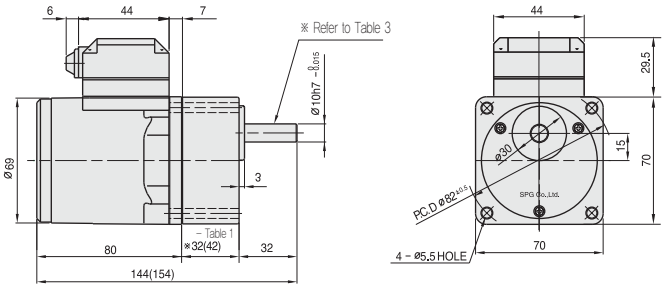
GEAR RATIO / MODEL		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S7KA□B	kg-cm	3.0	3.6	5.1	6.1	7.6	9.1	10.1	12.7	15.2	18.2	18.2	22.8	27.3	32.8	36.5	41.0	49.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	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	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

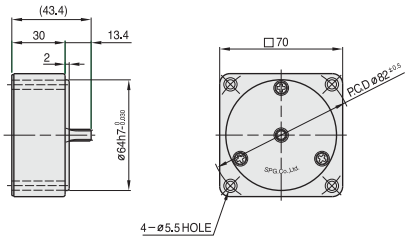
GEARED MOTOR

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



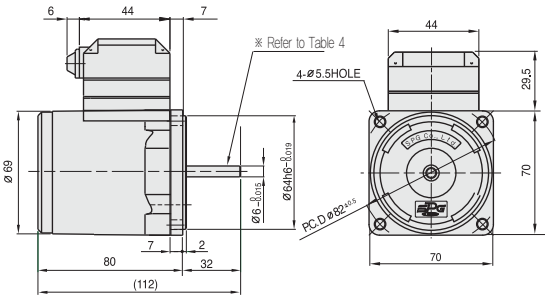
NTER-DECIMAL GEAR HEAD

※MODEL : S7GX10B



MOTOR

※MOTOR MODEL : S7(I,R)15□□-T



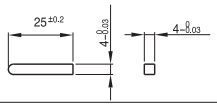
※26(35) - (Table1)

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

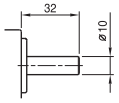
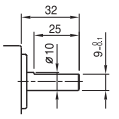
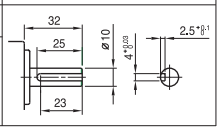
WEIGHT - (Table2)

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

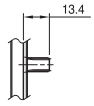
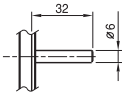
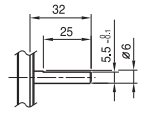
KEY SPEC

GEAR HEAD


SPEC for output shaft of gearhead - (Table3)

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

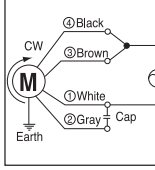
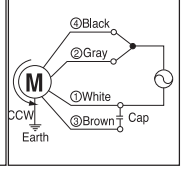
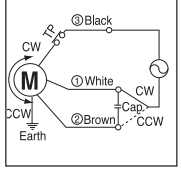
SPEC for output shaft of motor - (Table4)

MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE S7(I,R)15G□-T	
STRAIGHT TYPE S7(I,R)15S□-T	
D-CUT TYPE S7(I,R)15D□-T	

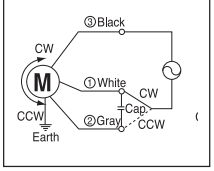
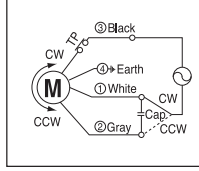
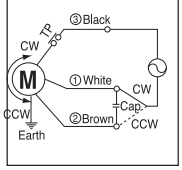
SCHEMATIC DIAGRAMS

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.

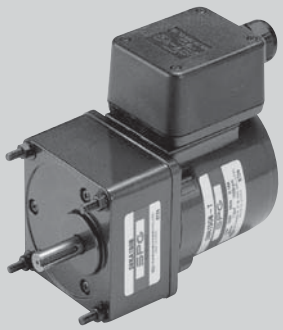
■ INDUCTION MOTOR

S7I15GA-T S7I15GB-T S7I15GC-T S7I15GD-T		S7I15GX-TCE S7I15GX-T
CW	**CCW**	**CW,CCW**
		

■ REVERSIBLE MOTOR

S7R15GA-T S7R15GB-T S7R15GC-T S7R15GD-T	S7R15GA-TCE S7R15GB-TCE S7R15GC-TCE S7R15GD-TCE S7R15GE-T S7R15GE-TCE	S7R15GX-TCE S7R15GX-T
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.



15W

INDUCTION MOTOR, REVERSIBLE MOTOR
□80㎜ TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
80	S8I15GA-T S8I15GA-T1	4	15	1Ø 110	60	Cont.	0.43	1600	1.00	0.100	1.20	0.120	4.0
	S8I15GB-T S8I15GB-T1	4	15	1Ø 220	60	Cont.	0.22	1600	1.00	0.100	1.20	0.120	1.0
	S8I15GC-T S8I15GC-T1	4	15	1Ø 100	50	Cont.	0.51	1300	1.20	0.120	0.95	0.095	4.0
					60		0.43	1550	1.00	0.100			
	S8I15GD-T S8I15GD-T1	4	15	1Ø 200	50	Cont.	0.25	1300	1.20	0.120	0.95	0.095	1.0
					60		0.22	1550	1.00	0.100			
	S8I15GX-T S8I15GX-T S8I15GX-TCE S8I15GX-T1CE	4	15	1Ø 220	50	Cont.	0.16	1200	1.30	0.130	0.95	0.095	1.0
				1Ø 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 modelname indicates that it is standard motor with Thermal Protector mounted.
S8I15GX-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	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
80	S8R15GA-T S8R15GA-T1 S8R15GA-T(TP) S8R15GA-T1(TP) S8R15GA-TCE S8R15GA-T1CE	4	15	1Ø 110	60	30min.	0.49	1550	1.00	0.100	1.20	0.120	6.0
	S8R15GB-T S8R15GB-T1 S8R15GB-T(TP) S8R15GB-T1(TP) S8R15GB-TCE S8R15GB-TCE1	4	15	1Ø 220	60	30min.	0.25	1550	1.00	0.100	1.20	0.120	1.5
	S8R15GC-T S8R15GC-T1 S8R15GC-T(TP) S8R15GC-T(TP)1 S8R15GC-TCE S8R15GC-T1CE	4	15	1Ø 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-T(TP) S8R15GD-T1(TP) S8R15GD-TCE S8R15GD-T1CE	4	15	1Ø 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	1Ø 100	50	30min.	0.59	1250	1.30	0.130	0.95	0.095	6.0
					60		0.48	1550	1.20	0.120			
				1Ø 115	60		0.52	1600	1.10	0.110			4.5
	S8R15GX-T S8R15GX-T1 S8R15GX-TCE S8R15GX-T1CE	4	15	1Ø 220	50	30min.	0.16	1200	1.30	0.130	1.10	0.110	1.2
				1Ø 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		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
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

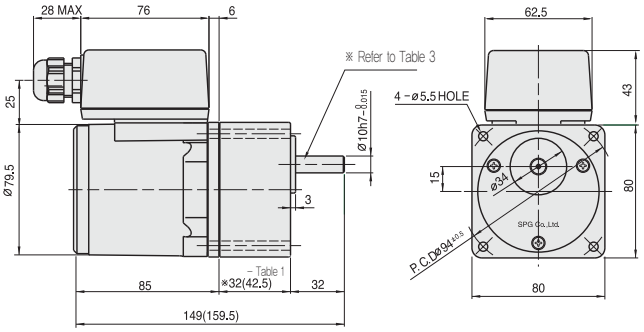
GEAR RATIO / MODEL		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
MODEL	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S8KA□B	kg-cm	2.9	3.5	4.9	5.8	7.3	8.7	9.7	12.2	14.6	17.5	17.5	21.9	26.3	31.5	35.0	39.6	47.5	59.4	71.3	79.2	80	80	80	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

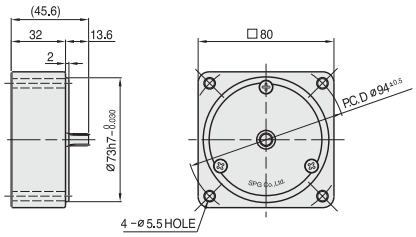
GEARED MOTOR

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



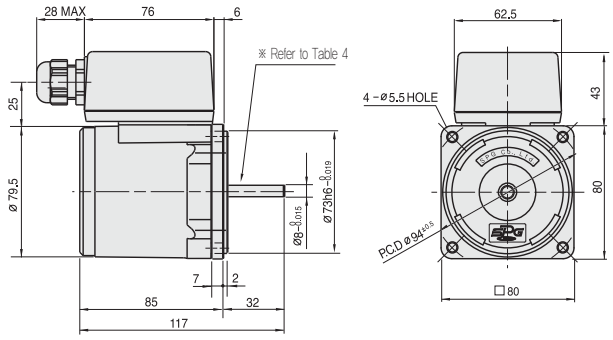
INTER-DECIMAL GEAR HEAD

※MODEL : S8GX10B



MOTOR

※MOTOR MODEL : S6R06□□-E



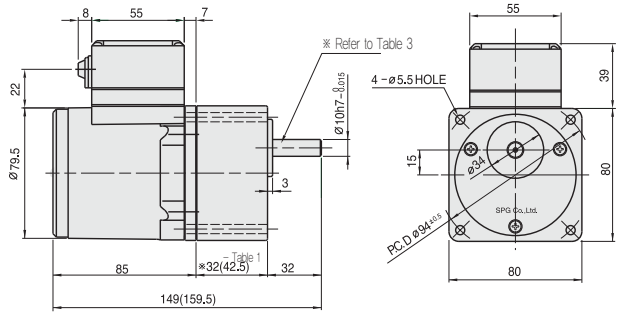
WEIGHT - (Table 2)

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

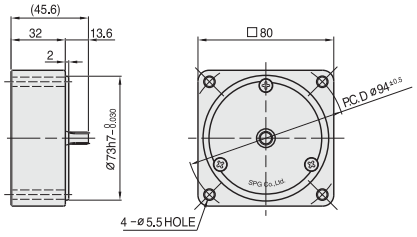
GEARED MOTOR

※MOTOR MODEL : S8(I,R)15G□-T1
※HEAD MODEL : S8□A3□~S8□A200□



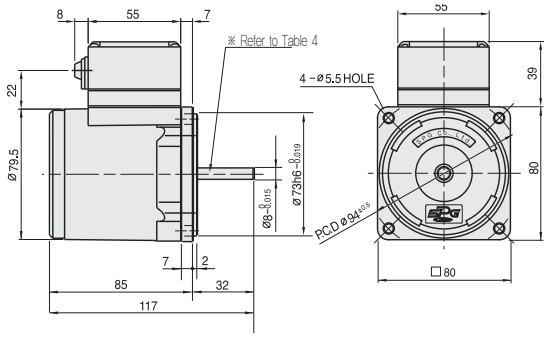
INTER-DECIMAL GEAR HEAD

※MODEL : S8GX10B



MOTOR

※MOTOR MODEL : S8(I,R)15□□-T1



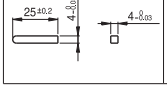
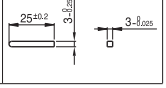
※26(35) - (Table1)

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

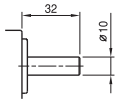
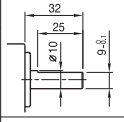
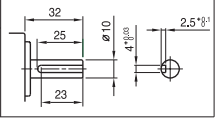
WEIGHT - (Table2)

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

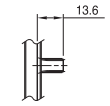
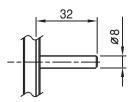
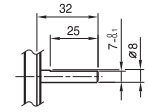
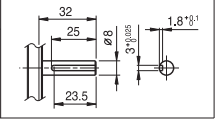
KEY SPEC

GEAR HEAD	MOTOR
	

SPEC for output shaft of gearhead - (Table3)

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

SPEC for output shaft of motor - (Table4)

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	

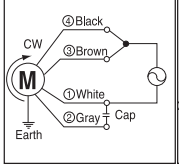
SCHEMATIC DIAGRAMS

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.

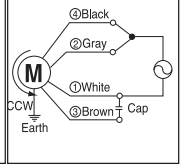
■ INDUCTION MOTOR

S8I15GA-T S8I15GB-T
S8I15GA-T1 S8I15GB-T1
S8I15GC-T S8I15GD-T
S8I15GC-T1 S8I15GD-T1

CW

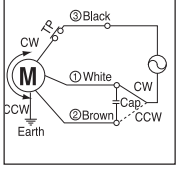


CCW



S8I15GX-T
S8I15GX-T1
S8I15GX-TCE
S8I15GX-T1CE

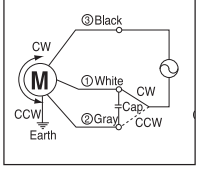
CW,CCW



■ REVERSIBLE MOTOR

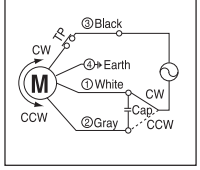
S8R15GA-T S8R15GC-T
S8R15GD-T S8R15GA-T1
S8R15GB-T S8R15GC-T1
S8R15GD-T1 S8R15GB-T1

CW,CCW



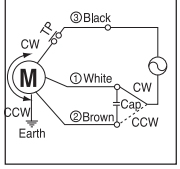
S8R15GA-TCE S8R15GB-TCE
S8R15GC-TCE S8R15GD-TCE
S8R15GE-T S8R15GE-TCE
S8R15GA-T1CE S8R15GB-T1CE
S8R15GC-T1CE S8R15GD-T1CE
S8R15GE-T1 S8R15GE-T1CE

CW,CCW

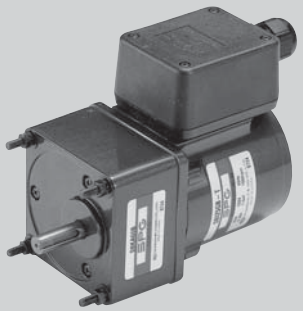


S8R15GX-TCE
S8R15GX-T1CE
S8R15GX-T
S8R15GX-T1

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.



25W

INDUCTION MOTOR, REVERSIBLE MOTOR
□80㎜ TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
80	S8I25GA-T S8I25GA-T1	4	25	1ø 110	60	Cont.	0.51	1600	1.60	0.160	1.80	0.180	6.0
	S8I25GB-T S8I25GB-T1	4	25	1ø 220	60	Cont.	0.23	1550	1.65	0.165	1.80	0.180	1.5
	S8I25GC-T S8I25GC-T1	4	25	1ø 100	50	Cont.	0.57	1250	2.00	0.200	1.45	0.145	6.0
					60		0.52	1550	1.65	0.165			
	S8I25GD-T S8I25GD-T1	4	25	1ø 200	50	Cont.	0.30	1250	2.00	0.200	1.45	0.145	1.5
					60		0.29	1500	1.70	0.170			
	S8I25GX-T S8I25GX-T1 S8I25GX-TCE S8I25GX-T1CE	4	25	1ø 220	50	Cont.	0.23	1200	2.10	0.210	1.10	0.110	1.3
				1ø 240			0.25		2.20	0.220	1.30	0.180	
	S8I25GU-T S8I25GU-T1 S8I25GU-TCE S8I25GU-T1CE	4	25	3ø 200	50	Cont.	0.26	1300	1.95	0.195	3.50	0.350	–
					60		0.24	1550	1.65	0.165	2.90	0.290	
	S8I25GT-T S8I25GT-T1 S8I25GT-TCE S8I25GT-T1CE	4	25	3ø 220	50	Cont.	0.28	1350	1.90	0.190	4.20	0.420	–
					60		0.24	1600	1.60	0.160	3.50	0.350	
	S8I25GS-T S8I25GS-T1 S8I25GS-TCE S8I25GS-T1CE	4	25	3ø 380	50	Cont.	0.14	1250	2.00	0.200	3.15	0.315	–
					60		0.12	1500	1.70	0.170	2.50	0.250	
				3ø 400	50	Cont.	0.14	1250	2.10	0.210	3.50	0.350	
					60		0.12	1500	1.80	0.180	2.75	0.275	
				3ø 415	50	Cont.	0.15	1300	1.95	0.195	3.75	0.375	
					60		0.13	1550	1.65	0.165	3.00	0.300	
				3ø 440	50	Cont.	0.15	1300	2.10	0.210	4.40	0.440	
					60		0.13	1550	1.80	0.180	3.40	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	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
80	S8R25GA-T S8R25GA-T S8R25GA-T(TP) S8R25GA-T1(TP) S8R25GA-TCE S8R25GA-T1CE	4	25	1Ø 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	1Ø 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	1Ø 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	1Ø 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-TCE S8R25GE-T1CE	4	25	1Ø 100	50	30min.	0.60	1250	2.10	0.210	1.30	0.130	8.0
					60		0.65	1450	1.80	0.180			
				1Ø 115	60		0.63	1550	1.70	0.170			7.0
	S8R25GX-T S8R25GX-T S8R25GX-TCE S8R25GX-T1CE	4	25	1Ø 220	50	30min.	0.26	1200	2.00	0.200	1.70	0.170	2.0
				1Ø 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 / MODEL		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	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	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
	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	7.840

60Hz

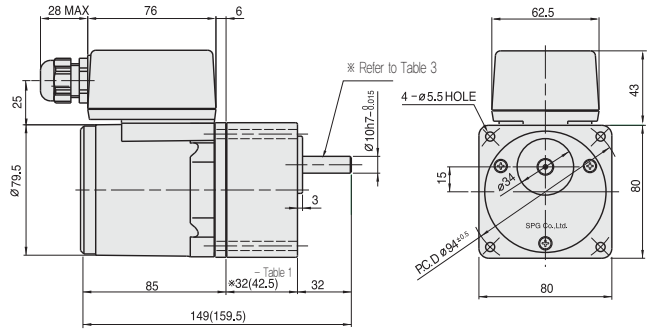
GEAR RATIO / MODEL		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S8KA□B	kg-cm	4.4	5.2	7.3	8.7	10.9	13.1	14.6	18.2	21.9	26.2	26.3	32.9	39.4	47.3	52.6	59.4	71.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	N·m	0.431	0.510	0.715	0.853	1.068	1.284	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

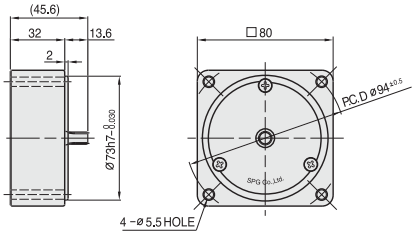
✚ GEARED MOTOR

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



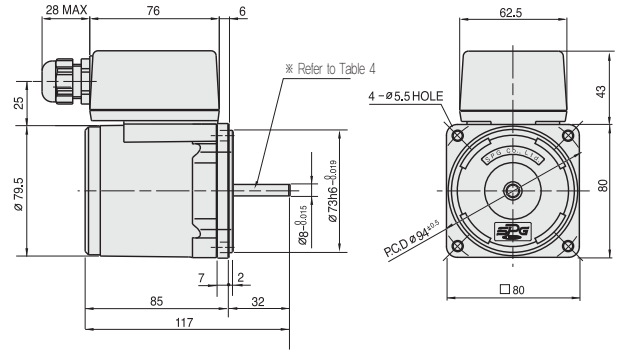
✚ INTER-DECIMAL GEAR HEAD

※MODEL : S8GX10B



✚ MOTOR

※MOTOR MODEL : S8(I,R)25□□-T

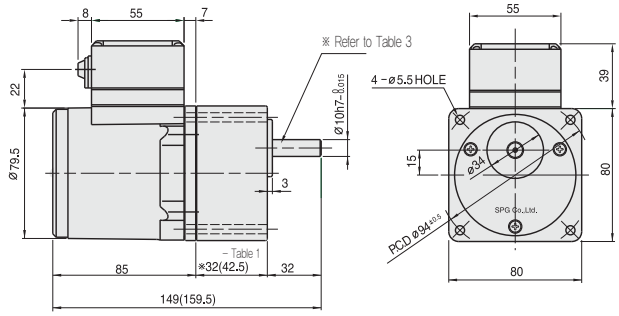


✚ WEIGHT - (Table2)

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

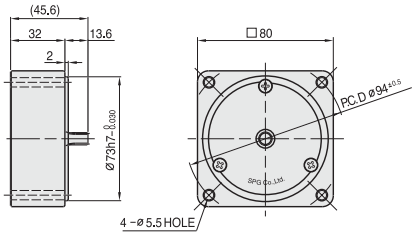
✚ GEARED MOTOR

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



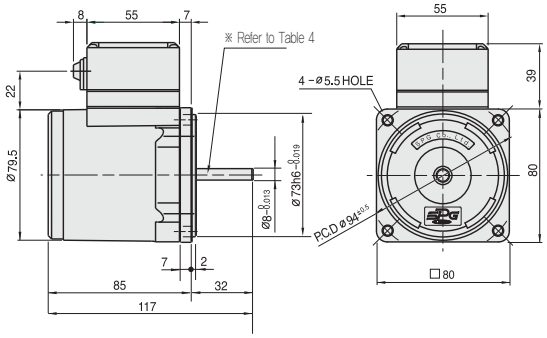
✚ INTER-DECIMAL GEAR HEAD

※ MODEL : S8GX10B



✚ MOTOR

※MOTOR MODEL : S8(I,R)25 □□-T1



✚ WEIGHT - (Table2)

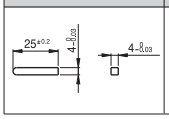
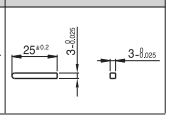
PART		WEIGHT(kg)
MOTOR		1.55
REVERSIBLE MOTOR		1.60
DECIMAL GEAR HEAD		0.43
GEAR HEAD	S8□A3□ ~S8□A18□	0.43
	S8□A20□ ~S8□A40□	0.57
	S8□A50□ ~S8□A200□	0.61

DIMENSIONS

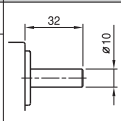
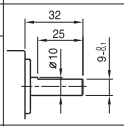
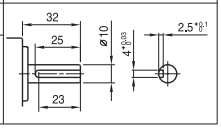
✚ ※26(35) – (Table1)

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

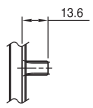
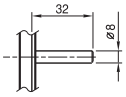
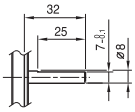
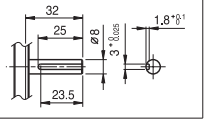
✚ KEY SPEC

GEAR HEAD	MOTOR
	

✚ 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□	

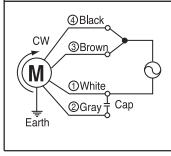
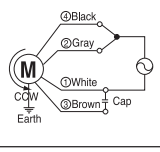
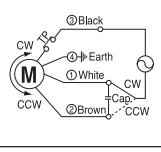
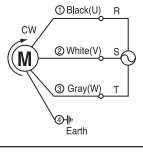
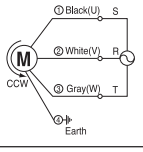
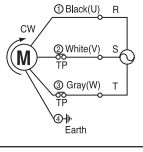
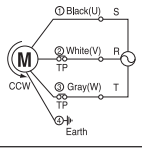
✚ SPEC for output shaft of motor – (Table4)

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,R25K□–T1	

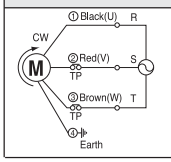
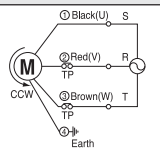
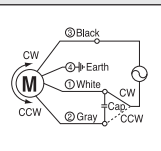
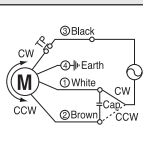
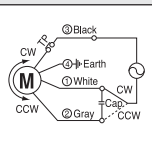
SCHEMATIC DIAGRAMS

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.

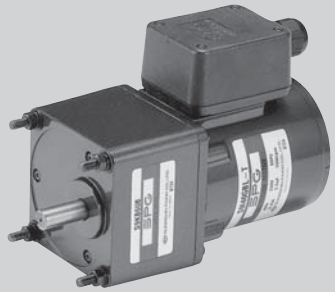
■INDUCTION MOTOR

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 S8I25GT-TCE S8I25GU-T1CE S8I25GT-T1CE	
CW	**CCW**	**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 , S8R25GE-T , S8R25GE-TCE S8R25GA-T1CE , S8R25GB-T1CE , S8R25GC-T1CE S8R25GD-T1CE , S8R25GE-T1 , S8R25GE-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
□90㎜ TERMINAL BOX TYPE

INDUCTION MOTOR - CONTINUOUS RATING

SIZE mm sq.	Type	Poles	Output	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
90	S9I40GA( )-T S9I40GA( )-T1	4	40	1ø 110	60	Cont.	0.82	1600	2.50	0.250	2.90	0.290	10.0
	S9I40GB( )-T S9I40GB( )-T1	4	40	1ø 220	60	Cont.	0.41	1600	2.50	0.250	2.90	0.290	2.5
	S9I40GC( )-T S9I40GC( )-T1	4	40	1ø 100	50	Cont.	0.80	1300	3.10	0.310	2.40	0.240	10.0
					60		0.85	1550	2.60	0.260			
	S9I40GD( )-T S9I40GD( )-T1	4	40	1ø 200	50	Cont.	0.41	1300	3.10	0.310	2.40	0.240	2.5
					60		0.43	1550	2.60	0.260			
	S9I40GX( )-T S9I40GX( )-T1 S9I40GX( )-TCE S9I40GX( )-T1CE	4	40	1ø 220	50	Cont.	0.34	1250	3.15	0.320	1.80	0.180	2.0
				1ø 240			0.37		3.35	0.355	2.10	0.210	
	S9I40GU( )-T S9I40GU( )-T1 S9I40GU( )-TCE S9I40GU( )-T1CE	4	40	3ø 200	50	Cont.	0.36	1300	3.10	0.310	6.30	0.630	—
					60		0.33	1550	2.60	0.260	5.20	0.520	
	S9I40GT( )-T S9I40GT( )-T1 S9I40GT( )-TCE S9I40GT( )-T1CE	4	40	3ø 220	50	Cont.	0.39	1350	3.00	0.300	7.60	0.760	—
					60		0.33	1600	2.50	0.250	6.10	0.610	
	S9I40GS( )-T S9I40GS( )-T1 S9I40GS( )-TCE S9I40GS( )-T1CE	4	40	3ø 380	50	Cont.	0.21	1300	3.20	0.320	6.30	0.630	—
					60		0.19	1550	2.70	0.270	4.85	0.485	
				3ø 400	50	Cont.	0.21	1300	3.30	0.330	6.90	0.690	
					60		0.19	1550	2.80	0.280	5.25	0.525	
				3ø 415	50	Cont.	0.21	1350	3.10	0.310	7.30	0.730	
					60		0.19	1600	2.60	0.260	5.70	0.570	
				3ø 440	50	Cont.	0.21	1350	3.20	0.320	8.20	0.820	
					60		0.19	1600	2.70	0.270	6.30	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	Voltage	Frequency	Duty	Rated Load				Starting Torque		Capacitor
							Current	Speed	Torque				
			(W)	(V)	(Hz)		(A)	(rpm)	(kg-cm)	(N-m)	(kg-cm)	(N-m)	(uF)
90	S9R40GA( )-T S9R40GA( )-T1 S9R40GA( )-T(TP) 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( )-T S9R40GB( )-T1 S9R40GB( )-T(TP) 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( )-T S9R40GC( )-T1 S9R40GC( )-T(TP) 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( )-T S9R40GD( )-T1 S9R40GD( )-T(TP) 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( )-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( )-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 / MODEL		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	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
S9KB□B( )	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
	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 / MODEL		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	50	45	36	30	24	20	18	15	12	10	9
S9KB□B( )	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
	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'.