



# 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)		(kg-cm)	(N-m)		
90	S9I40GA( )-T S9I40GA( )-T1	4	40	1 $\phi$ 110	60	Cont.	0.82	1600	2.50	0.250	2.90	0.290	10.0	
	S9I40GB( )-T S9I40GB( )-T1	4	40	1 $\phi$ 220	60	Cont.	0.41	1600	2.50	0.250	2.90	0.290	2.5	
	S9I40GC( )-T S9I40GC( )-T1	4	40	1 $\phi$ 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 $\phi$ 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 $\phi$ 220 1 $\phi$ 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 $\phi$ 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 $\phi$ 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 $\phi$ 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		
					3 $\phi$ 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
					3 $\phi$ 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
	3 $\phi$ 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 marking (File NO. E9766002E01, Certificate Institute: TÜV Rheinland) 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.
- In case 3 phase 380V motor is controlled with inverter, please be careful to use considerin
- ( ) is for marking 'L' type or 'H'. 'L' should be used with gearhead 'L' and 'H' should be used with gearhead 'H'.

## REVERSIBLE MOTOR - 30 MINUTES 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)	
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	

- Please use appropriate capacitors according to the using voltage for S9R40GE-T type since the size of the capacitors differ to the different voltages and when not used properly, it may cause malfunction. Please inform required voltage when ordering or capacitor for 115V will be delivered.
- "CE" marked at the end of the model name indicates that it is thermally protected type which has received CE marking (File NO. E9766002E01, Certificate Institute: TÜV Rhinland) 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	kg-cm	N-m																						
S9KB□B( )	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	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	9.800

## 60Hz

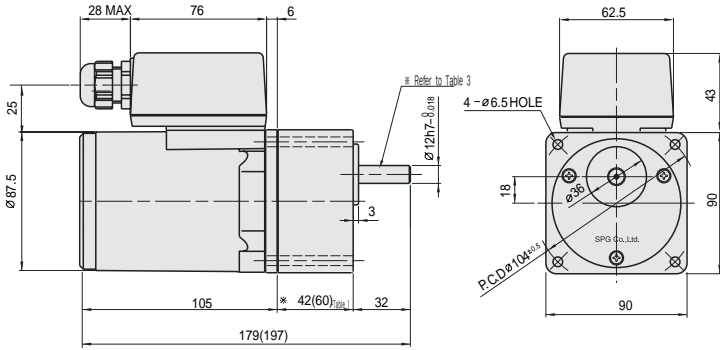
GEAR RATIO	3 3.6 5 6 7.5 9 10 12.5 15 18 20 25 30 36 40 50 60 75 90 100 120 150 180 200																									
	MODEL	rpm	kg-cm	N-m																						
S9KB□B( )	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9	
	kg-cm	6.8	8.2	11.3	13.6	17.0	20.4	22.7	28.4	34.0	40.8	40.9	51.1	61.3	73.6	81.8	100	100	100	100	100	100	100	100	100	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	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 assembled with motor and inter-decimal gearhead is 100kg · 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.
- Rotational speed based on synchronous speed (50Hz:1500rpm, 60Hz:1800rpm) divided by gear ratio. The actual rotation speed is less 2-20% than the displayed value according to 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

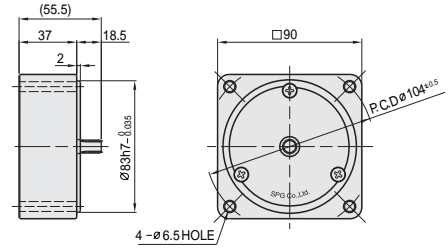
## ▼ GEARED MOTOR

※ MOTOR MODEL : S9(I,R)40□□-T  
 ※ HEAD MODEL : S9□B3□□~S9□B200□□



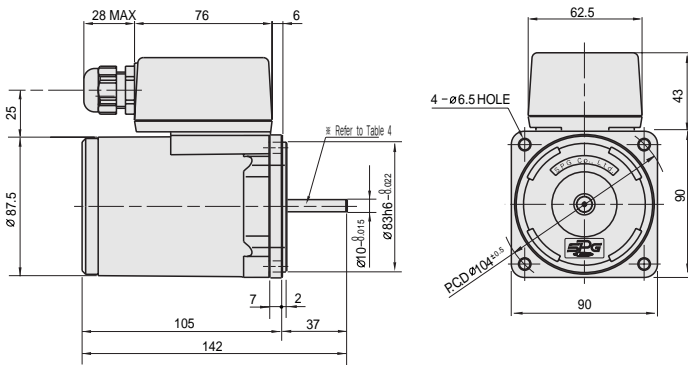
## ▼ INTER-DECIMAL GEARHEAD

※ MODEL : S9GX10B(H,L)



## ▼ MOTOR

※ MOTOR MODEL : S9(I,R)40□□-T



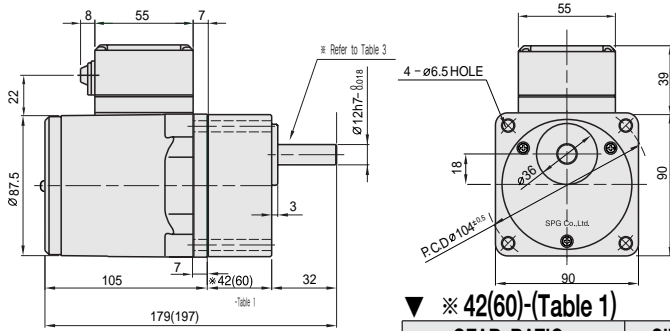
## ▼ WEIGHT-(Table 2)

PART	WEIGHT(Kg)	
INDUCTION MOTOR	2.45	
REVERSIBLE MOTOR	2.50	
DECIMAL GEARHEAD	0.60	
GEAR	S9□ B3□□	0.73
	~S9□ B18□□	
HEAD	S9□ B20□□	1.03
	~S9□ B40□□	
	S9□ B50□□	
	~S9□ B200□□	1.13

# DIMENSIONS

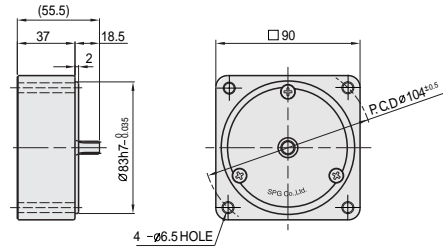
## GEARED MOTOR

※ MOTOR MODEL : S9(I,R)40G□□-T1  
 ※ HEAD MODEL : S9□B3□□~S9□B200□



## INTER-DECIMAL GEARHEAD

※ MODEL : S9GX10B(H,L)



## ※ 42(60)-(Table 1)

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

## ▼ 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□□	

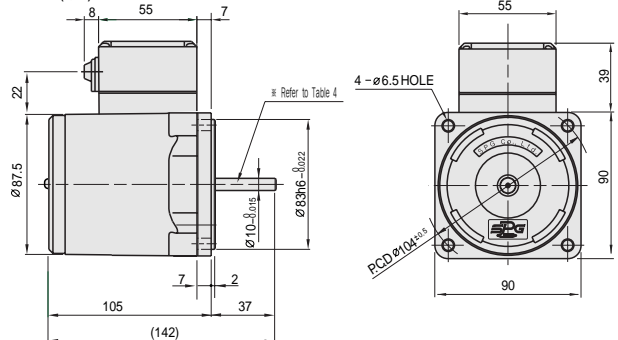
## MODEL TYPES OF OUTPUT SHAFT

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	

## ▼ SPEC for output shaft of motor-(Table 4)

## ▼ MOTOR

※ MOTOR MODEL : S9(I,R)40□□□-T1



## ▼ KEY SPEC

GEARHEAD	MOTOR

## ▼ WEIGHT-(Table 2)

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

# 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
<b>CW</b> 	<b>CCW</b> 	<b>CW,CCW</b> 	<b>CW</b> 	<b>CCW</b> 

## 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( )-T1(TP), S9R40GB( )-T1(TP), S9R40GC( )-T1(TP), S9R40GD( )-T1(TP), S9R40GX( )-T1(TP), S9R40GX( )-T1(TP), S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE, S9R40GX( )-T1CE
<b>CW</b> 	<b>CCW</b> 	<b>CW,CCW</b> 	<b>CW,CCW</b> 

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. ①, ②, ③, ④: Terminal NO.