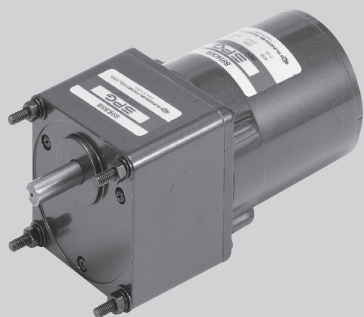


Powermec



40W

INDUCTION MOTOR □ 90mm LEAD WIRE TYPE

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() S9I40GA()(TP) S9I40GA()CE	4	40	1 ∅ 110	60	Cont.	0.82	1600	2.50	0.250	2.90	0.290	10.0		
	S9I40GB() S9I40GB()(TP) S9I40GB()CE	4	40	1 ∅ 220	60	Cont.	0.41	1600	2.50	0.250	2.90	0.290	2.5		
	S9I40GC() S9I40GC()(TP) S9I40GC()CE	4	40	1 ∅ 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() S9I40GD()(TP) S9I40GD()CE	4	40	1 ∅ 200	50	Cont.	0.41	1300	3.10	0.310	2.40	0.240	2.5		
	60				0.43		1550	2.60	0.260						
	S9I40GE() S9I40GE()CE	4	40	1 ∅ 100	50	Cont.	0.82	1300	3.10	0.310	2.40	0.240	10.0		
	60				0.85		1550	2.60	0.260						
	60				0.91		1550	2.60	0.260						
	S9I40GX() S9I40GX()CE	4	40	1 ∅ 220	50	Cont.	0.34	1250	3.15	0.315	1.80	0.180	2.0		
	1 ∅ 240			0.37			3.35		0.335	2.10	0.210				
	S9I40GU() S9I40GU()CE	4	40	3 ∅ 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() S9I40GT()CE	4	40	3 ∅ 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				
	50				0.21		1300	3.20	0.320	6.30	0.630				
	S9I40GS() S9I40GS()CE	4	40	3 ∅ 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 ∅ 400	50	Cont.	0.21	1300	3.30	0.330	6.90	0.690		5.25	0.525
					60		0.19	1550	2.80	0.280	5.25	0.525			
3 ∅ 415				50	Cont.	0.21	1350	3.10	0.310	7.30	0.730	7.30		0.730	
				60		0.19	1600	2.60	0.260	5.70	0.570				
3 ∅ 440				50	Cont.	0.21	1350	3.20	0.320	8.20	0.820	8.20		0.820	
				60		0.19	1600	2.70	0.270	6.30	0.630				

❖ S9I40GE is UL approved (UL FILE No. E172720) thermally protected type.

❖ Appropriate capacitors shall be used according to the voltage for S9I40GE 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 model name indicates that it is thermally protected type which has received CE with built-in TP. S9I40GE()CE 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. S9I40GE, S9I40GX, S9I40GS 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.

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□B()	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□B()	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.

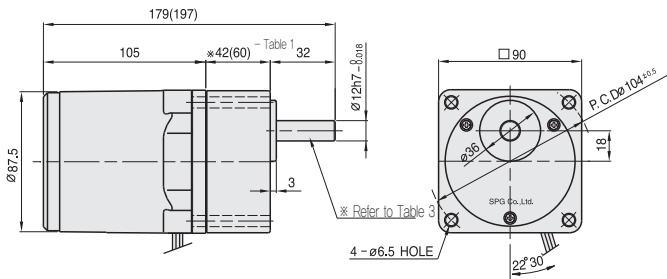
The actual rotation speed can be 2~20% less than displayed value depending on the load.

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

DIMENSIONS

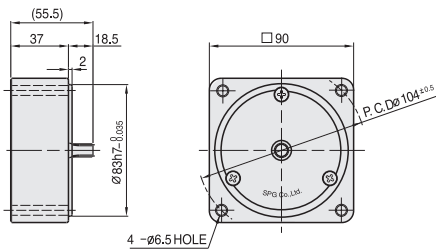
+ GEARED MOTOR

* MOTOR MODEL : S9140G□□
 * HEAD MODEL : S9□B3□□~S9□B200□□



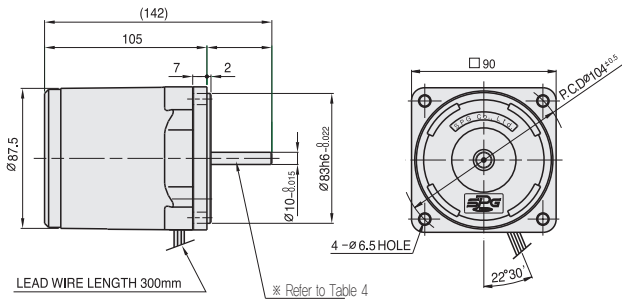
+ INTER-DECIMAL GEAR HEAD

* MODEL : S9GX10B(H,L)



+ MOTOR

* MOTOR MODEL : S9140□□□



+ SPEC for output shaft of gearhead - (Table3)

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

+ *26(35) - (Table1)

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

+ WEIGHT - (Table2)

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

+ SPEC for output shaft of motor - (Table4)

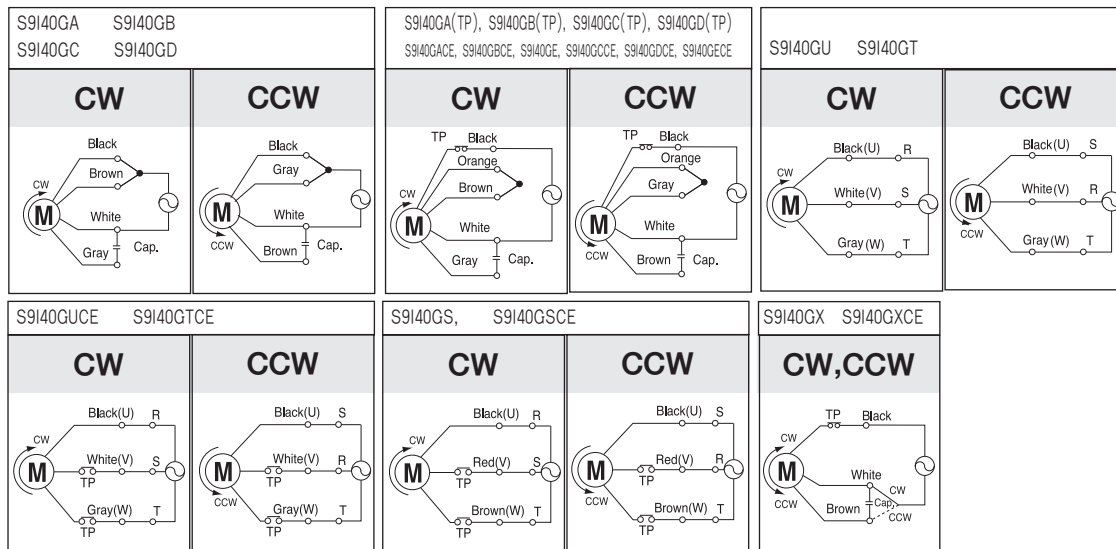
MODEL	TYPES OF OUTPUT SHAFT
GEAR TYPE	
S9140G□□	
STRAIGHT TYPE	
S9140S□	
D-CUT TYPE	
S9140D□	
KEY TYPE	
S9140K□	

+ KEY SPEC

GEAR HEAD	MOTOR

SCHEMATIC DIAGRAMS

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



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