



120W

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	S9I120GA S9I120GA(TP) S9I120GACE	4	120	1 ∅ 110	60	Cont.	2.10	1600	7.60	0.760	6.20	0.620	25.0
	S9I120GB S9I120GB(TP) S9I120GBCE	4	120	1 ∅ 220	60	Cont.	1.00	1600	7.50	0.750	6.00	0.600	6.0
	S9I120GC S9I120GC(TP) S9I120GCCE	4	120	1 ∅ 100	50	Cont.	2.00	1250	9.60	0.960	5.70	0.570	25.0
	60				1550			7.90	0.790				
	S9I120GD S9I120GD(TP) S9I120GDCE	4	120	1 ∅ 200	50	Cont.	1.00	1250	9.50	0.950	5.50	0.550	6.0
	60				1550			7.80	0.780				

- ❖ CE marked at the end of 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.
- ❖ Only "H" type is applicable.

50Hz

MODEL	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	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
S9KC□BH	kg-cm	23.2	27.8	38.7	46.4	58.0	69.6	77.4	87.0	104	125	139	156	188	200	200	200	200	200	200	200	200	200	200	200
S9KC□BH-S	N-m	2.276	2.731	3.793	4.552	5.689	6.827	7.586	8.534	10.24	12.29	13.65	15.36	18.43	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61

60Hz

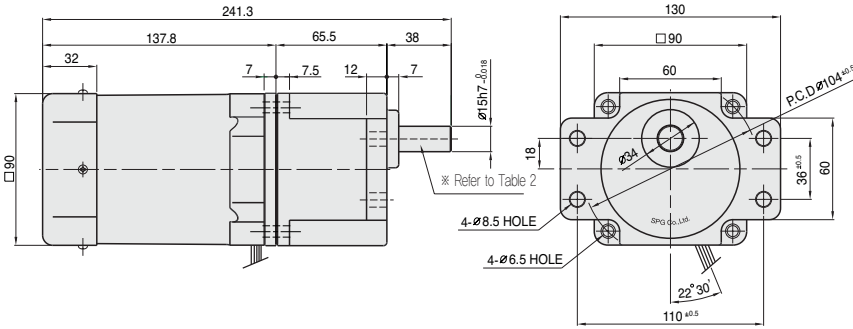
MODEL	GEAR RATIO	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	rpm	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
S9KC□BH	kg-cm	18.7	22.5	31.2	37.4	46.8	56.1	62.4	70.2	84.2	101	112	126	152	182	200	200	200	200	200	200	200	200	200	200
S9KC□BH-S	N-m	1.835	2.202	3.058	3.670	4.587	5.505	6.116	6.881	8.257	9.909	11.01	12.39	14.86	17.84	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61

- ❖ 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.
- ❖ Only "H" type is applicable.

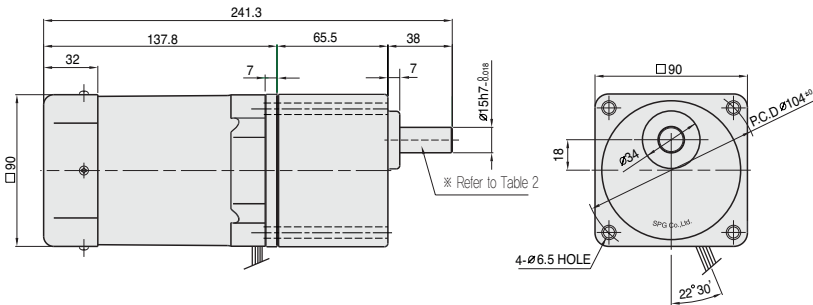
DIMENSIONS

+ GEARED MOTOR

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

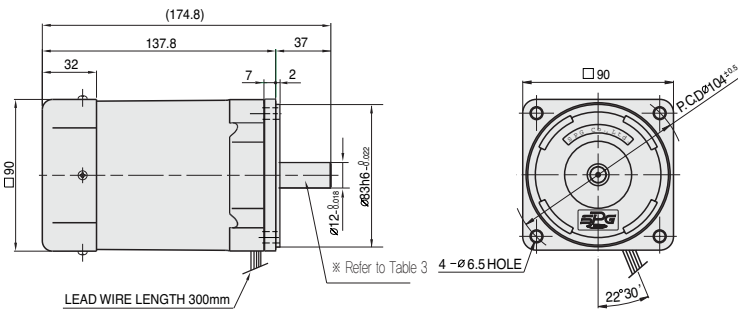


* HEAD MODEL □ : S9□C3BH~S9□C200BH



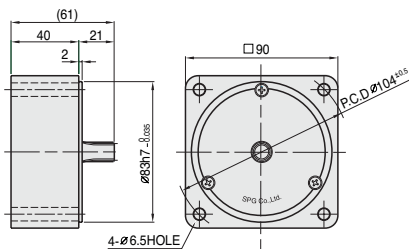
+ MOTOR

* MOTOR MODEL : S9I120□□



+ INTER-DECIMAL GEAR HEAD

* MODEL : S9GX10BH-S



+ WEIGHT - (Table 1)

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

+ KEY SPEC

GEAR HEAD	MOTOR

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

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

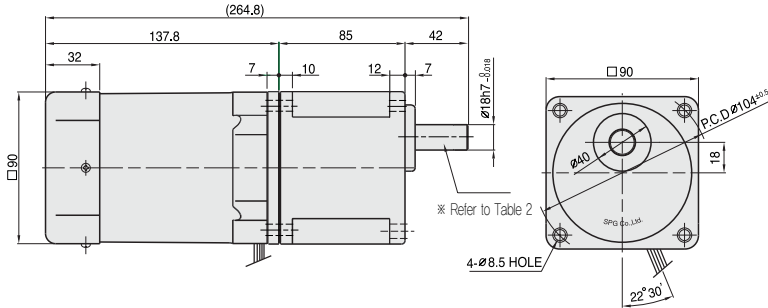
+ SPEC for output shaft of motor - (Table 3)

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

DIMENSIONS

+ GEARED MOTOR

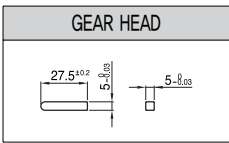
* MOTOR MODEL : S9I120G□
 * HEAD MODEL □ : S9□D3B~S9□D200B



+ WEIGHT - (Table1)

PART		WEIGHT(kg)
MOTOR		2.93
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



+ 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	S9KD3B ~S9KD200B	KEY TYPE

50Hz

MODEL	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
	S9KD□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
	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
	N·m	2.276	2.731	3.793	4.552	5.689	6.827	7.586	8.534	10.24	12.29	13.65	15.36	18.43	22.12	24.58	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42	29.42

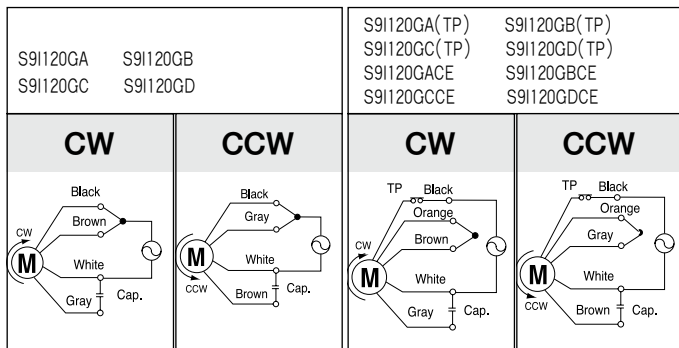
60Hz

MODEL	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
	S9KD□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
	kg-cm	18.7	22.5	31.2	37.4	46.8	56.1	62.4	70.2	84.2	101	112	126	152	182	202	252	300	300	300	300	300	300	300	
	N·m	1.835	2.202	3.058	3.670	4.587	5.505	6.116	6.881	8.757	9.909	11.01	12.39	14.86	17.84	19.82	24.77	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 of the assembled motor and gearhead.
- ❖ The permissible torque of the motor and inter-decimal gearhead is 5 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.

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.