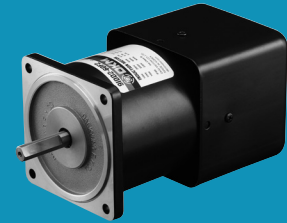


Speed Control Reversible Motor



S.C. Reversible Motor

Index

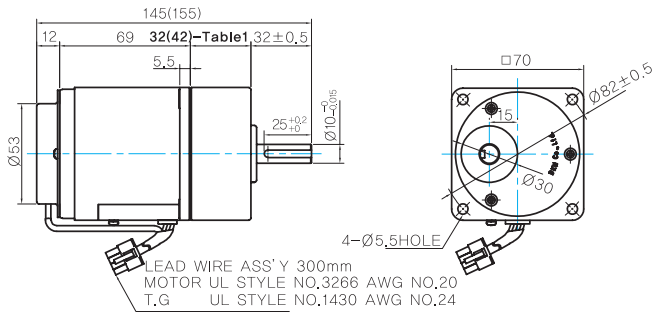
Speed Control Reversible Motor 6W (□70mm)	B-223
Speed Control Reversible Motor 10W (□70mm)	B-225
Speed Control Reversible Motor 15W (□70mm)	B-227
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GEARED MOTOR

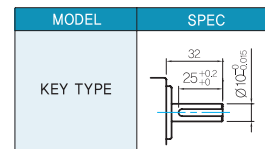
G TYPE GEARBOX

● MOTOR MODEL:
7SRDG□-6G (NO FAN)

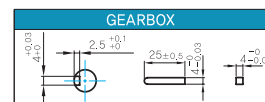
● GEARBOX MODEL:
7GBK□BMH



GEARBOX OUTPUT SHAFT



KEY SPEC



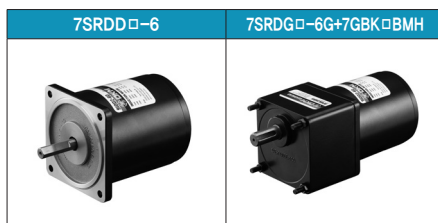
WEIGHT

PART	WEIGHT(Kg)
MOTOR	0,93
GEAR BOX	
7GBK3BMH - 7GBK18BMH	0,36
7GBK25BMH - 7GBK30BMH	0,44
7GBK36BMH - 7GBK180BMH	0,5

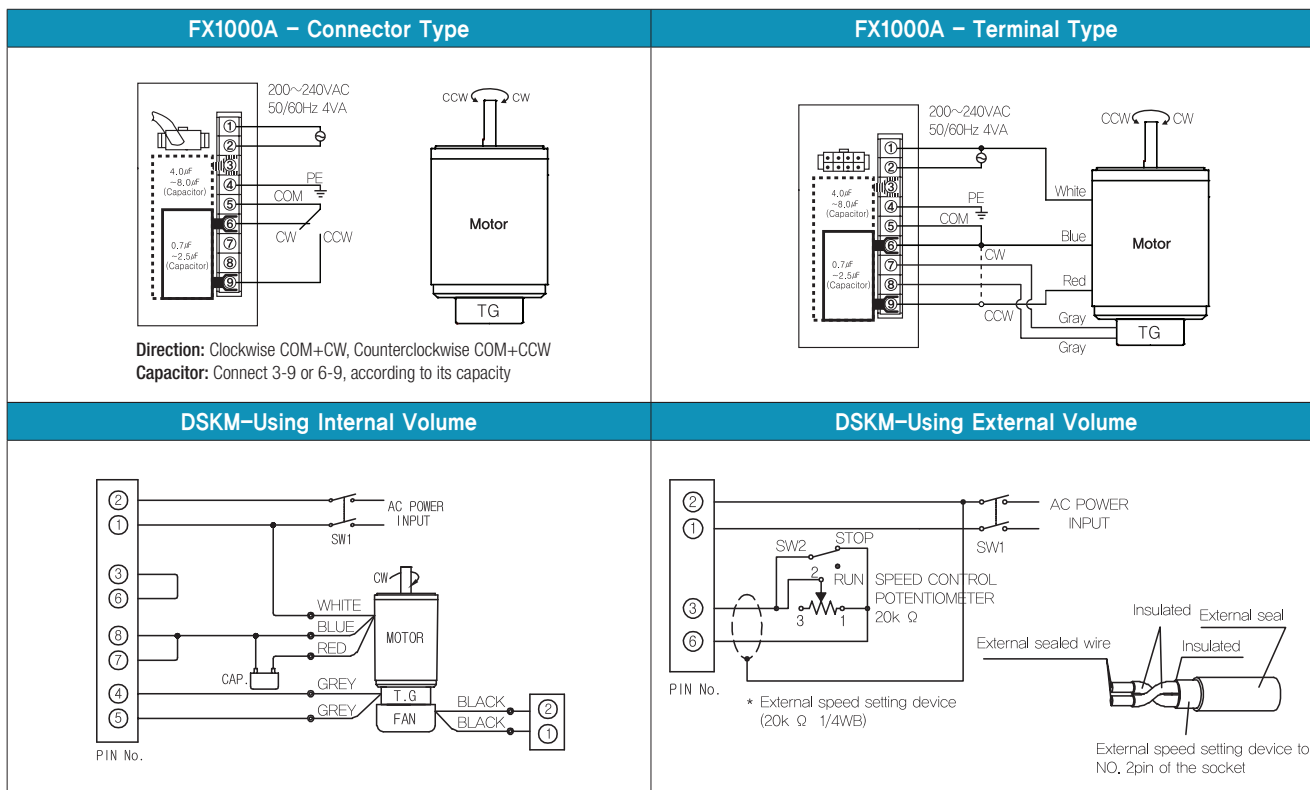
32(42)-Table1

SIZE(mm)	GEAR RATIO
32	7GBK3BMH - 7GBK18BMH
42	7GBK25BMH - 7GBK180BMH

Motor Images



Connection Diagrams



1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

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

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

B AC Motors

S.C. Reversible Motor 10W (□70mm)

10W Speed Control Reversible Motor 10W(□70mm)

Motor Specification

Model 7SRDG□-10G: Gear Type Shaft 7SRDD□-10: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
7SRDGA-10G	10	1φ110	60	4	30min.	90-1700	0.60	0.060	0.82	0.082	0.50	0.050	3.5 / 250
7SRDGD-10G	10	1φ220	60	4	30min.	90-1700	0.80	0.080	0.82	0.082	0.50	0.050	1.2 / 450
7SRDGE-10G	10	1φ220	50	4	30min.	90-1400	0.58	0.058	0.70	0.070	0.35	0.035	1.0 / 450
		0.70					0.070	0.75	0.075	0.40	0.040		

- 1) Enter the phase & voltage code in the in the box (□) within the motor model name.
- 2) All models contain a built-in thermal protector.
- 3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

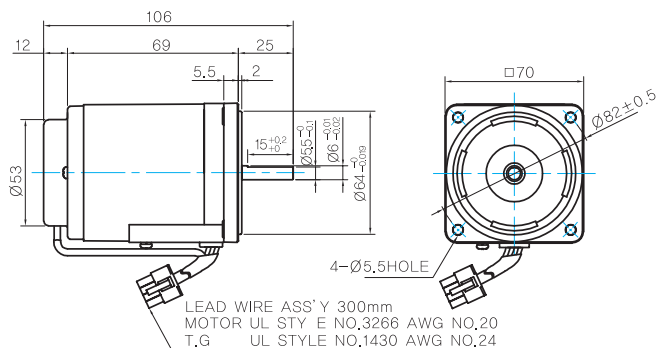
Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180		
7SRDG□ -10G	7GBK□ BMH	1200	110	60	kgfcm	2.0	2.5	4.1	5.1	6.1	8.5	10.2	12.3	15.4	18.5	20.1	27.9	33.5	41.8	50.0	50.0	50.0	50.0	50.0	50.0	
					N.m	0.20	0.24	0.40	0.50	0.60	0.83	1.00	1.20	1.51	1.81	1.97	2.73	3.28	4.10	4.90	4.90	4.90	4.90	4.90	4.90	4.90
			220	60	kgfcm	2.0	2.5	4.1	5.1	6.1	8.5	10.2	12.3	15.4	18.5	20.1	27.9	33.5	41.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0
		N.m	0.20	0.24	0.40	0.50	0.60	0.83	1.00	1.20	1.51	1.81	1.97	2.73	3.28	4.10	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	
		220/ 240	50	kgfcm	1.9	2.2	3.7	4.7	5.6	7.8	9.3	11.2	14.1	16.9	18.4	25.5	30.6	38.3	45.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
		N.m	0.18	0.22	0.37	0.46	0.55	0.76	0.92	1.10	1.38	1.65	1.80	2.50	3.00	3.75	4.50	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	
90	60	kgfcm	1.2	1.5	2.5	3.1	3.7	5.2	6.2	7.5	9.4	11.3	12.2	17.0	20.4	25.5	30.6	34.0	40.8	50.0	50.0	50.0	50.0	50.0		
		N.m	0.12	0.15	0.24	0.31	0.37	0.51	0.61	0.73	0.92	1.10	1.20	1.67	2.00	2.50	3.00	3.33	4.00	4.90	4.90	4.90	4.90	4.90		
		220/ 240	50	kgfcm	1.0	1.2	2.0	2.5	3.0	4.2	5.0	6.0	8.3	10.0	12.0	16.6	19.9	24.9	29.9	33.2	39.8	49.8	50.0	50.0		
N.m	0.10	0.12	0.20	0.24	0.29	0.41	0.49	0.59	0.81	0.98	1.17	1.63	1.95	2.44	2.93	3.25	3.90	4.88	4.90	4.90	4.90	4.90	4.90			

- 1) Enter the phase & voltage code in the box (□) within the motor model name.
- 2) Enter the gear ratio in the box (□) within the Gearbox model name.
- 3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.
- 4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.
The actual speed is 2-20% less than the displayed value, depending on the size of the load.

Dimensions

MOTOR ONLY

● MOTOR MODEL: 7SRDD□-10 (NO FAN)



● MOTOR OUTPUT SHAFT

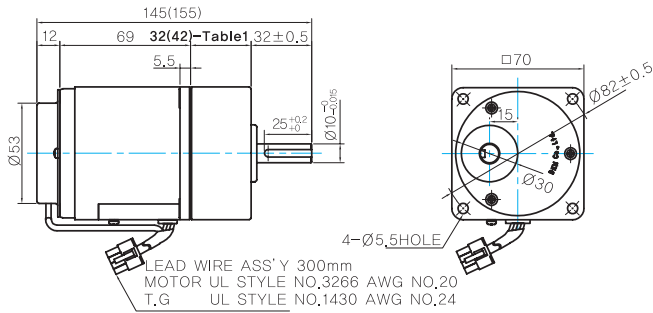
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

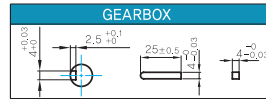
G TYPE GEARBOX

● MOTOR MODEL:
7SRDG□-10G (NO FAN)

● GEARBOX MODEL:
7GBK□BMH



KEY SPEC



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

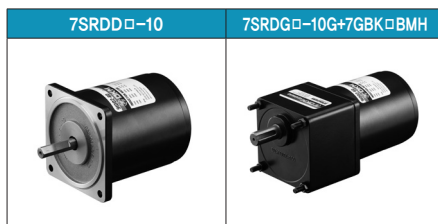
WEIGHT

PART	WEIGHT(Kg)
MOTOR	0.93
7GBK3BMH - 7GBK18BMH	0.36
7GBK25BMH - 7GBK30BMH	0.44
7GBK36BMH - 7GBK180BMH	0.5

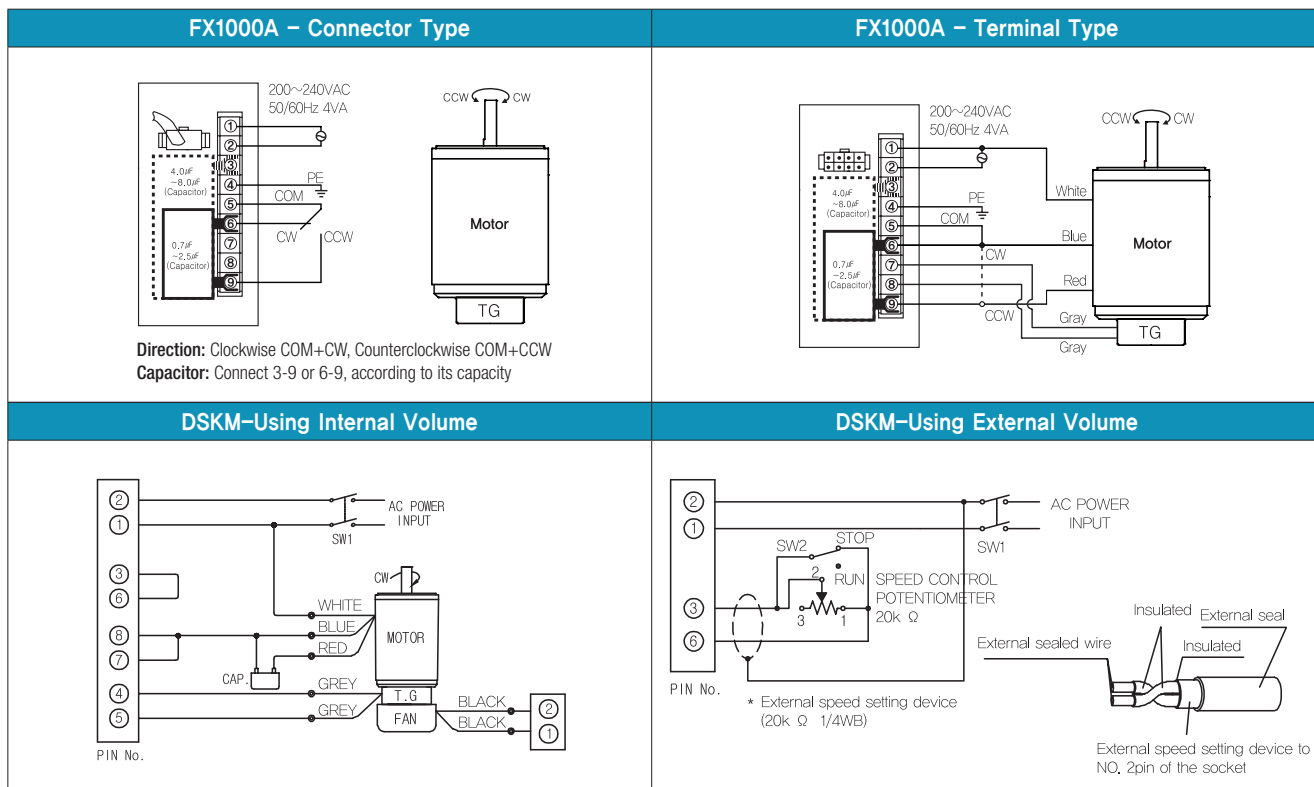
32(42)-Table1

SIZE(mm)	GEAR RATIO
32	7GBK3BMH - 7GBK18BMH
42	7GBK25BMH - 7GBK180BMH

Motor Images



Connection Diagrams



1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

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

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

B AC Motors

S.C. Reversible Motor 15W (□70mm)

15W Speed Control Reversible Motor 15W(□70mm)

Motor Specification

Model 7SRDG□-15G: Gear Type Shaft 7SRDD□-15: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
							kgfcm	N.m	1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
7SRDGA-15G	15	1φ110	60	4	30min.	90-1700	0.67	0.067	1.13	0.113	0.58	0.058	6.0 / 250
7SRDGD-15G	15	1φ220	60	4	30min.	90-1700	1.00	0.100	1.18	0.118	0.63	0.063	1.5 / 450
7SRDGE-15G	15	1φ220	50	4	30min.	90-1400	0.80	0.080	1.05	0.105	0.50	0.050	1.2 / 450
		1φ240					1.00	0.100	1.25	0.125	0.60	0.060	

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180			
7SRDG□ -15G	7GBK□ BMH	1200	110	60	kgfcm	2.8	3.4	5.6	7.0	8.4	11.7	14.1	16.9	21.2	25.4	27.7	38.4	46.1	50.0	50.0	50.0	50.0	50.0	50.0	50.0		
					N.m	0.28	0.33	0.55	0.69	0.83	1.15	1.38	1.65	2.08	2.49	2.71	3.77	4.52	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
			220/ 240	50	kgfcm	3.1	3.7	6.2	7.8	9.3	13.0	15.6	18.7	23.4	28.1	30.6	42.5	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
					N.m	0.31	0.37	0.61	0.76	0.92	1.27	1.53	1.83	2.30	2.76	3.00	4.17	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
			90	110	60	kgfcm	1.4	1.7	2.9	3.6	4.3	6.0	7.2	8.7	10.9	13.1	14.2	19.7	23.7	29.6	35.5	39.4	47.3	50.0	50.0	50.0	50.0
						N.m	0.14	0.17	0.28	0.35	0.42	0.59	0.71	0.85	1.07	1.28	1.39	1.93	2.32	2.90	3.48	3.87	4.64	4.90	4.90	4.90	4.90
		220		60	kgfcm	1.6	1.9	3.1	3.9	4.7	6.5	7.8	9.4	11.8	14.2	15.4	21.4	25.7	32.1	38.6	42.8	50.0	50.0	50.0	50.0	50.0	
					N.m	0.15	0.18	0.31	0.38	0.46	0.64	0.77	0.92	1.16	1.39	1.51	2.10	2.52	3.15	3.78	4.20	4.90	4.90	4.90	4.90	4.90	
		220/ 240		50	kgfcm	1.5	1.8	3.0	3.7	4.5	6.2	7.5	9.0	11.3	13.5	14.7	20.4	24.5	30.6	36.7	40.8	49.0	50.0	50.0	50.0	50.0	
					N.m	0.15	0.18	0.29	0.37	0.44	0.61	0.73	0.88	1.10	1.32	1.44	2.00	2.40	3.00	3.60	4.00	4.80	4.90	4.90	4.90	4.90	

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

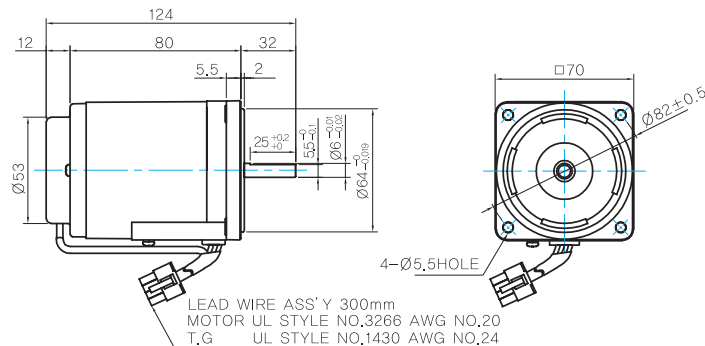
4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2-20% less than the displayed value, depending on the size of the load.

Dimensions

MOTOR ONLY

● MOTOR MODEL: 7SRDD□-15 (NO FAN)



MOTOR OUTPUT SHAFT

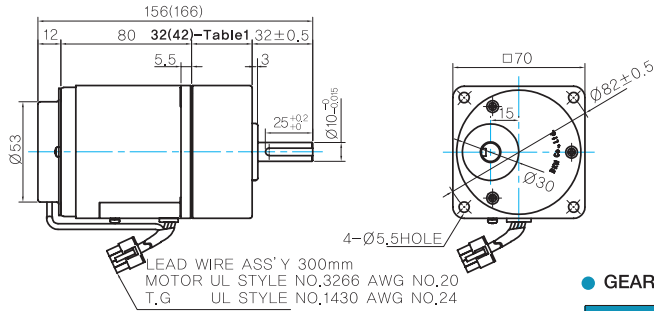
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

G TYPE GEARBOX

● MOTOR MODEL: 7SRDG□-15G (NO FAN)

● GEARBOX MODEL: 7GBK□BMH



WEIGHT

PART	WEIGHT(Kg)
MOTOR	1,14
7GBK3BMH ~ 7GBK18BMH	0,36
7GBK25BMH ~ 7GBK30BMH	0,44
7GBK36MH ~ 7GBK180MH	0,5

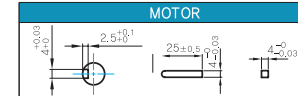
32(42)-Table1

SIZE(mm)	GEAR RATIO
32	7GBK3BMH - 7GBK18BMH
42	7GBK25BMH - 7GBK180BMH

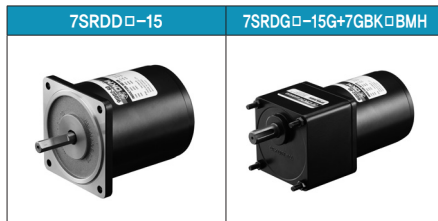
GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

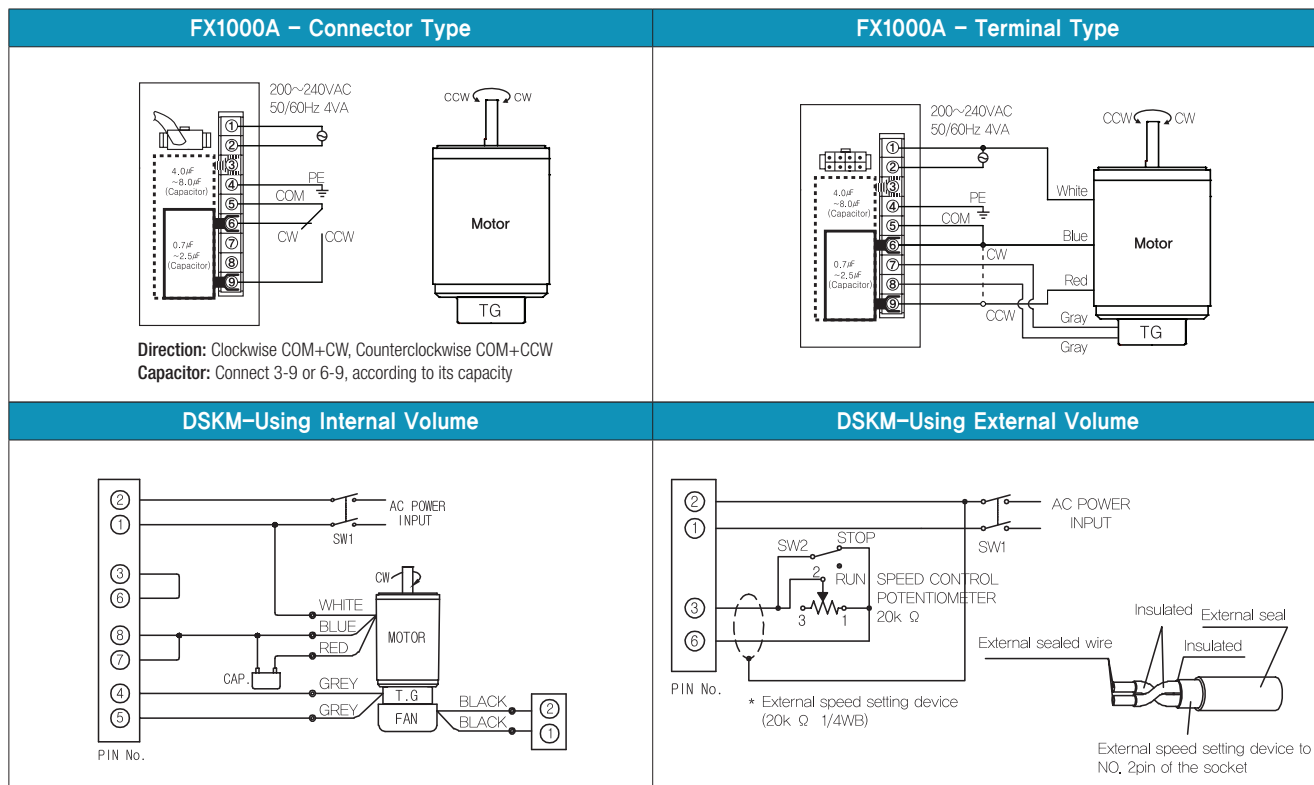
KEY SPEC



Motor Images



Connection Diagrams



- At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation. Now you can adjust the main volume to control the output speed of motor.
- The direction of motor rotation is as viewed from the shaft end of the motor.
- CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

B AC Motors

S.C. Reversible Motor 15W (□80mm)

15W Speed Control Reversible Motor 15W(□80mm)

Motor Specification

Model 8SRDG ⁺ -15□: Gear Type Shaft 8SRDD ⁺ -15: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque kgfcm N.m		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
8SRDGA-15□	15	1φ110	60	4	30min.	90-1700	0.70	0.070	1.50	0.150	0.60	0.060	6.0 / 450
8SRDGD-15□	15	1φ220	60	4	30min.	90-1700	0.85	0.085	1.50	0.150	0.55	0.055	1.5 / 450
8SRDGE-15□	15	1φ220	50	4	30min.	90-1400	0.75	0.075	1.20	0.120	0.50	0.050	1.5 / 450
		0.85					0.085	1.40	0.140	0.50	0.050		

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	360				
8SRDG □-15G	8GBK □BMH	1200	110	60	kgfcm	3.7	4.5	6.2	7.5	9.3	11.2	15.6	18.7	22.4	28.1	33.8	36.7	40.8	51.0	61.2	76.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0			
					N.m	0.37	0.44	0.61	0.73	0.92	1.10	1.53	1.83	2.20	2.76	3.31	3.60	4.00	5.00	6.00	7.50	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
			220/240	50	kgfcm	3.5	4.2	5.8	7.0	8.7	10.5	14.5	17.4	20.9	26.3	31.5	34.3	38.1	47.6	57.1	71.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
					N.m	0.34	0.41	0.57	0.68	0.85	1.02	1.42	1.71	2.05	2.57	3.09	3.36	3.73	4.66	5.60	7.00	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
			90	110	60	kgfcm	0.9	1.0	1.5	1.7	2.2	2.6	3.6	4.4	5.2	6.6	7.9	8.6	9.5	11.9	14.3	17.9	21.4	23.8	28.6	35.7	42.8	42.7	53.4	64.1	76.9			
						N.m	0.09	0.10	0.14	0.17	0.21	0.26	0.36	0.43	0.51	0.64	0.77	0.84	0.93	1.17	1.40	1.75	2.10	2.33	2.80	3.50	4.20	4.18	5.23	6.28	7.53			
		220/240		50	kgfcm	0.9	1.0	1.5	1.7	2.2	2.6	3.6	4.4	5.2	6.6	7.9	8.6	9.5	11.9	14.3	17.9	21.4	23.8	28.6	35.7	42.8	42.7	53.4	64.1	76.9				
					N.m	0.09	0.10	0.14	0.17	0.21	0.26	0.36	0.43	0.51	0.64	0.77	0.84	0.93	1.17	1.40	1.75	2.10	2.33	2.80	3.50	4.20	4.18	5.23	6.28	7.53				

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
8SRDG □-15W	8WD □BL/ □BR/ □BRL	1200	110	60	kgfcm	12.3	14.4	17.3	20.0	26.3	29.7	34.6	45.0	49.5
					N.m	1.21	1.41	1.70	1.96	2.57	2.91	3.39	4.41	4.85
			220	60	kgfcm	12.5	14.9	18.7	22.4	31.1	37.4	44.8	62.3	74.7
					N.m	1.22	1.46	1.83	2.20	3.05	3.66	4.39	6.10	7.32
			220/240	50	kgfcm	11.5	13.4	16.2	18.6	24.5	27.7	32.3	42.0	46.2
					N.m	1.13	1.32	1.58	1.83	2.40	2.72	3.16	4.12	4.53
		90	110	60	kgfcm	2.9	3.4	4.0	4.7	6.1	6.9	8.1	10.5	11.6
					N.m	0.28	0.33	0.40	0.46	0.60	0.68	0.79	1.03	1.13
			220	60	kgfcm	2.9	3.4	4.0	4.7	6.1	6.9	8.1	10.5	11.6
					N.m	0.28	0.33	0.40	0.46	0.60	0.68	0.79	1.03	1.13
			220/240	50	kgfcm	2.9	3.4	4.0	4.7	6.1	6.9	8.1	10.5	11.6
					N.m	0.28	0.33	0.40	0.46	0.60	0.68	0.79	1.03	1.13

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

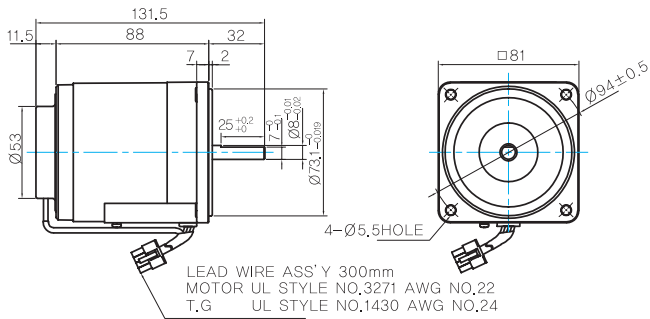
4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2~20% less than the displayed value, depending on the size of the load.

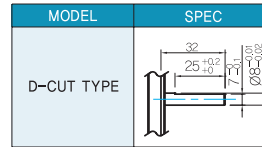
Dimensions

MOTOR ONLY

- MOTOR MODEL: 8SRDD□-15 (NO FAN)

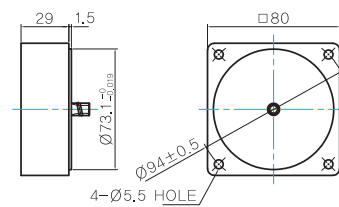


MOTOR OUTPUT SHAFT



INTER-DECIMAL GEARBOX

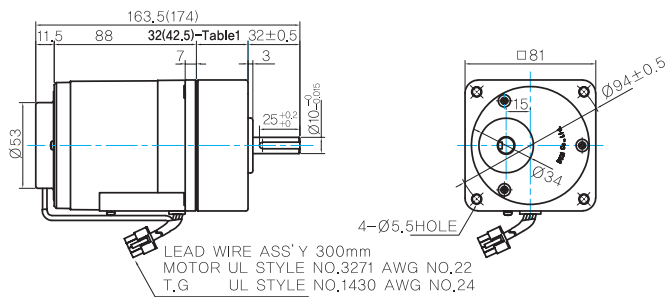
- MODEL: 8XD10□□



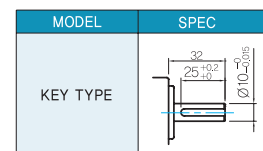
GEARED MOTOR

G TYPE GEARBOX

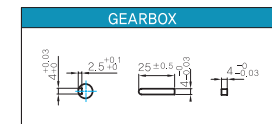
- MOTOR MODEL: 8SRDG□-15G (NO FAN)
- GEARBOX MODEL: 8GBK□BMH



GEARBOX OUTPUT SHAFT



KEY SPEC

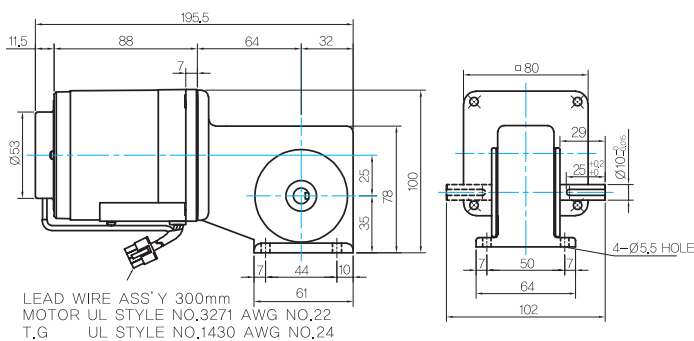


32(42.5)-Table1

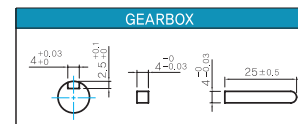
SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK25BMH - 8GBK360BMH

W TYPE GEARBOX

- MOTOR MODEL: 8SRDG□-15W (NO FAN)
- GEARBOX MODEL: 8WD□BL/BR/BRL



KEY SPEC



WEIGHT

PART	WEIGHT(Kg)	
MOTOR	1.7	
GEAR BOX	8GBK3BMH ~ 8GBK18BMH	0.48
	8GBK25BMH ~ 8GBK30BMH	0.61
	8GBK36BMH ~ 8GBK180BMH	0.67
	8GBK200BMH ~ 8GBK360BMH	0.63
	8WD□BL/BR/BRL	0.67
8XD10□□	0.44	

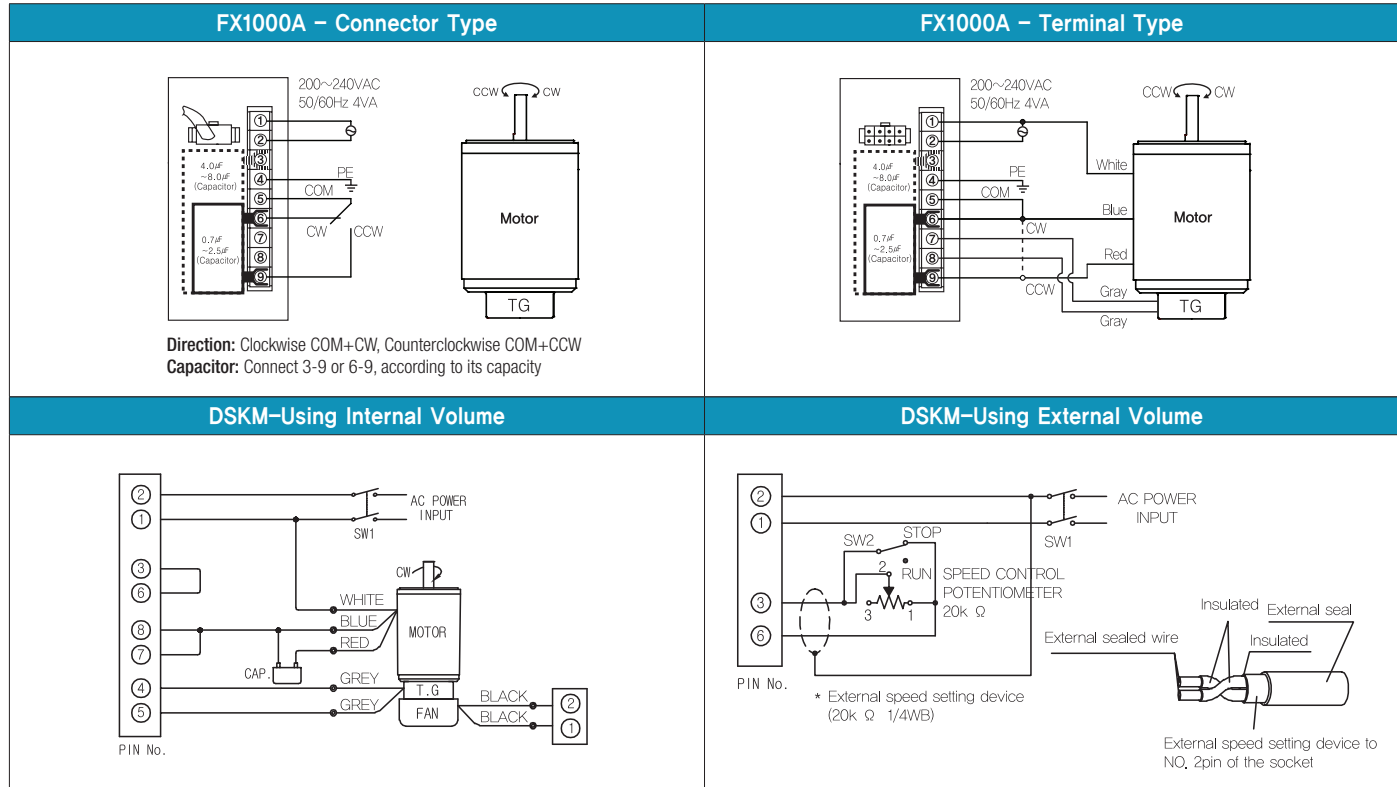
Motor Images



B AC Motors

S.C. Reversible Motor 15W (□80mm)

Connection Diagrams



- 1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.
 Now you can adjust the main volume to control the output speed of motor.
- 2) The direction of motor rotation is as viewed from the shaft end of the motor.
- 3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- 4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

25W

Speed Control
Reversible Motor
25W(□80mm)

Motor Specification

Model 8SRDG*-25□: Gear Type Shaft 8SRDD*-25: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
							kgfcm	N.m	1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
8SRDGA-25□	25	1∅110	60	4	30min.	90-1700	1.40	0.140	1.55	0.155	0.70	0.070	10.0 / 250
8SRDGD-25□	25	1∅220	60	4	30min.	90-1700	1.60	0.160	1.80	0.180	0.90	0.090	2.5 / 450
8SRDGE-25□	25	1∅220	50	4	30min.	90-1400	1.00	0.100	1.50	0.150	0.50	0.050	2.0 / 450
		1∅240					1.20	0.120	1.80	0.180	0.50	0.050	

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40
8SRDG□ -25G	8GBK□ BMH	1200	110	60	kgfcm	3.9	4.6	6.4	7.7	9.6	11.6	16.1	19.3	23.2	29.1	34.9	37.9	42.2
					N.m	0.38	0.45	0.63	0.76	0.95	1.13	1.58	1.89	2.27	2.85	3.42	3.72	4.13
			220	60	kgfcm	5.8	6.9	9.6	11.5	14.4	17.3	24.0	28.8	34.6	39.2	47.1	46.4	51.6
		220/ 240	50	kgfcm	4.5	5.4	7.5	9.0	11.2	13.4	18.7	22.4	26.9	33.8	40.5	44.1	49.0	
				N.m	0.44	0.53	0.73	0.88	1.10	1.32	1.83	2.20	2.64	3.31	3.97	4.32	4.80	
				90	110	60	kgfcm	1.7	2.1	2.9	3.5	4.4	5.2	7.3	8.7	10.5	13.1	15.8
		N.m	0.17	0.20			0.28	0.34	0.43	0.51	0.71	0.85	1.02	1.29	1.54	1.68	1.87	
		220	60	kgfcm			2.2	2.7	3.7	4.5	5.6	6.7	9.3	11.2	13.4	16.9	20.3	22.0
		220/ 240	50	kgfcm	0.22	0.26	0.37	0.44	0.55	0.66	0.92	1.10	1.32	1.65	1.98	2.16	2.40	
					N.m	0.12	0.15	0.20	0.24	0.31	0.37	0.51	0.61	0.73	0.92	1.10	1.20	1.33

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	50	60	75	90	100	120	150	180	200	250	300	360
8SRDG□ -25G	8GBK□ BMH	1200	110	60	kgfcm	52.7	63.2	79.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
					N.m	5.16	6.20	7.75	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
			220	60	kgfcm	64.5	77.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		220/ 240	50	kgfcm	61.2	73.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
				N.m	6.00	7.20	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84
				90	110	60	kgfcm	23.8	28.6	35.7	42.8	47.6	57.1	71.4	80.0	80.0	80.0
		N.m	2.33	2.80			3.50	4.20	4.66	5.60	7.00	7.84	7.84	7.84	7.84		
		220	60	kgfcm			30.6	36.7	45.9	55.1	61.2	73.4	80.0	80.0	80.0	80.0	80.0
		220/ 240	50	kgfcm	3.00	3.60	4.50	5.40	6.00	7.20	7.84	7.84	7.84	7.84	7.84		
					N.m	17.0	20.4	25.5	30.6	34.0	40.8	51.0	61.2	61.0	76.3	80.0	
					N.m	1.67	2.00	2.50	3.00	3.33	4.00	5.00	6.00	5.98	7.47	7.84	

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2-20% less than the displayed value, depending on the size of the load.

B AC Motors

S.C. Reversible Motor 25W (□80mm)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
8SRDG□ -25W	8WD□BL/ □BR/□BRL	1200	110	60	kgfcm N.m	12.7 1.25	14.9 1.46	17.9 1.75	20.6 2.02	27.1 2.66	30.7 3.01	35.7 3.50	46.5 4.56	51.2 5.01
			220	60	kgfcm N.m	14.9 1.46	17.9 1.76	22.4 2.20	26.9 2.64	37.4 3.66	44.8 4.39	53.8 5.27	74.7 7.32	81.6 8.00
			220/240	50	kgfcm N.m	14.8 1.45	17.3 1.69	20.8 2.04	24.0 2.35	31.5 3.09	35.6 3.49	41.5 4.06	54.0 5.29	59.4 5.82
		90	110	60	kgfcm N.m	5.7 0.56	6.7 0.66	8.1 0.79	9.3 0.91	12.3 1.20	13.9 1.36	16.1 1.58	21.0 2.06	23.1 2.26
			220	60	kgfcm N.m	7.4 0.72	8.6 0.85	10.4 1.02	12.0 1.17	15.8 1.54	17.8 1.75	20.7 2.03	27.0 2.65	29.7 2.91
			220/240	50	kgfcm N.m	4.1 0.40	4.8 0.47	5.8 0.57	6.7 0.65	8.8 0.86	9.9 0.97	11.5 1.13	15.0 1.47	16.5 1.62

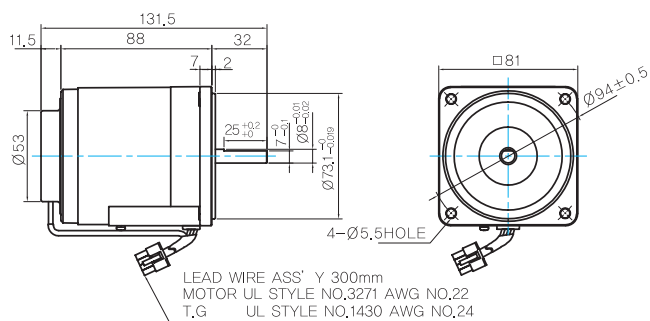
Motor Images



Dimensions

MOTOR ONLY

- MOTOR MODEL: 8SRDD□-25 (NO FAN)

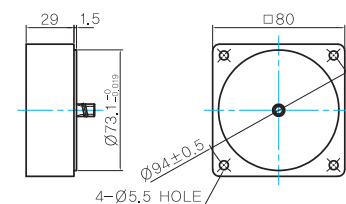


INTER-DECIMAL GEARBOX

- MODEL: 8XD10□□

MOTOR OUTPUT SHAFT

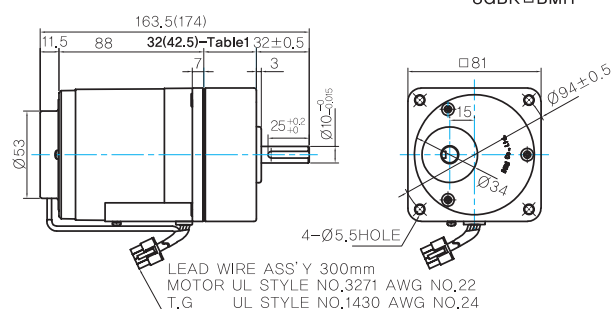
MODEL	SPEC
D-CUT TYPE	



GEARED MOTOR

G TYPE GEARBOX

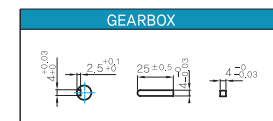
- MOTOR MODEL: 8SRDG□-25G (NO FAN)
- GEARBOX MODEL: 8GBK□BMH



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

KEY SPEC



32(42.5)-Table1

SIZE(mm)	GEAR RATIO
32	8GBK3BMH - 8GBK18BMH
42.5	8GBK25BMH - 8GBK360BMH

B AC Motors

S.C. Reversible Motor 40W (□90mm)

40W

Speed Control
Reversible Motor
40W(□90mm)

Motor Specification

Model 9SRDG*-40□: Gear Type Shaft 9SRDD*-40: D-Cut Type Shaft 9SRDK*-40: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
							kgfcm	N.m	kgfcm	N.m	kgfcm	N.m	
9SRDGA-40□	40	1φ 110	60	4	30min.	90-1700	2.00	0.200	2.90	0.290	1.20	0.120	16.0 / 250
9SRDGD-40□	40	1φ 220	60	4	30min.	90-1700	2.00	0.200	2.90	0.290	1.20	0.120	4.0 / 400
9SRDGE-40□	40	1φ 220	50	4	30min.	90-1400	1.70	0.170	2.50	0.250	0.70	0.070	3.0 / 450
		2.10					0.210	3.00	0.300	0.70	0.070		

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut & Key Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	2	3	3.6	5	6	7.5	9	10	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200		
9SRDG □-40G	9GBK □BMH	1200	110	60	kgfcm	4.8	7.2	8.7	12.0	14.4	18.1	21.7	24.1	30.1	36.1	39.2	54.4	65.3	71.0	78.9	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
					N.m	0.47	0.71	0.85	1.18	1.42	1.77	2.12	2.36	2.95	3.54	3.84	5.33	6.39	6.96	7.73	9.66	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
			kgfcm	4.8	7.2	8.7	12.0	14.4	18.1	21.7	24.1	30.1	36.1	39.2	54.4	65.3	71.0	78.9	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	0.47	0.71	0.85	1.18	1.42	1.77	2.12	2.36	2.95	3.54	3.84	5.33	6.39	6.96	7.73	9.66	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		kgfcm	5.0	7.5	9.0	12.5	14.9	18.7	22.4	24.9	31.1	37.4	40.5	56.3	67.5	73.4	81.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	0.49	0.73	0.88	1.22	1.46	1.83	2.20	2.44	3.05	3.66	3.97	5.51	6.62	7.20	8.00	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
	90	110	60	kgfcm	2.0	3.0	3.6	5.0	6.0	7.5	9.0	10.0	12.5	14.9	16.2	22.5	27.0	29.4	32.6	40.8	49.0	61.2	73.4	81.6	97.9	100.0	100.0	100.0	100.0	100.0	100.0
				N.m	0.20	0.29	0.35	0.49	0.59	0.73	0.88	0.98	1.22	1.46	1.59	2.21	2.65	2.88	3.20	4.00	4.80	6.00	7.20	8.00	9.60	9.60	9.80	9.80	9.80	9.80	9.80
		kgfcm	2.0	3.0	3.6	5.0	6.0	7.5	9.0	10.0	12.5	14.9	16.2	22.5	27.0	29.4	32.6	40.8	49.0	61.2	73.4	81.6	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	0.20	0.29	0.35	0.49	0.59	0.73	0.88	0.98	1.22	1.46	1.59	2.21	2.65	2.88	3.20	4.00	4.80	6.00	7.20	8.00	9.60	9.60	9.80	9.80	9.80	9.80	9.80	9.80	9.80
		kgfcm	1.2	1.7	2.1	2.9	3.5	4.4	5.2	5.8	7.3	8.7	9.5	13.1	15.8	17.1	19.0	23.8	28.6	35.7	42.8	47.6	57.1	71.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7
		N.m	0.11	0.17	0.20	0.28	0.34	0.43	0.51	0.57	0.71	0.85	0.93	1.29	1.54	1.68	1.87	2.33	2.80	3.50	4.20	4.66	5.60	7.00	8.40	8.40	8.40	8.40	8.40	8.40	8.40

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
9SRDG □-40W	9WD □BL/ □BR/ □BRL	1200	110	60	kgfcm	23.8	27.8	33.5	38.6	50.8	57.4	66.8	87.0	95.7
					N.m	2.33	2.73	3.28	3.79	4.97	5.63	6.55	8.53	9.38
			kgfcm	24.1	28.9	36.1	43.3	60.2	72.2	86.7	120.4	122.4		
		N.m	2.36	2.83	3.54	4.25	5.90	7.08	8.49	11.79	12.00			
		kgfcm	24.6	28.8	34.7	40.0	52.5	59.4	69.1	90.0	99.0			
		N.m	2.41	2.82	3.40	4.00	5.15	5.82	6.77	8.82	9.70			
90	110	60	kgfcm	9.8	11.5	13.9	16.0	21.0	23.8	27.6	36.0	39.6		
			N.m	0.96	1.13	1.36	1.57	2.06	2.33	2.71	3.53	3.88		
	kgfcm	9.8	11.5	13.9	16.0	21.0	23.8	27.6	36.0	39.6				
N.m	0.96	1.13	1.36	1.57	2.06	2.33	2.71	3.53	3.88					
kgfcm	5.7	6.7	8.1	9.3	12.3	13.9	16.1	21.0	23.1					
N.m	0.56	0.66	0.79	0.91	1.20	1.36	1.58	2.06	2.26					

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

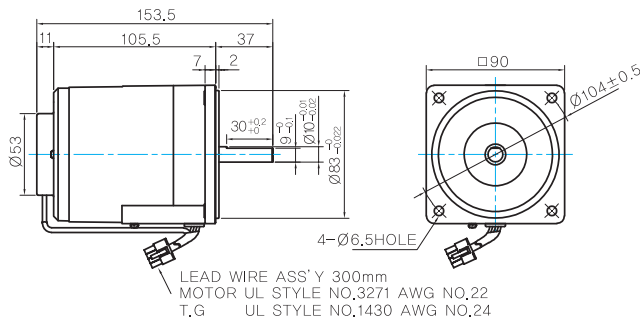
4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2~20% less than the displayed value, depending on the size of the load.

Dimensions

MOTOR ONLY

- MOTOR MODEL: 9SRDD□-40 (NO FAN)



MOTOR OUTPUT SHAFT

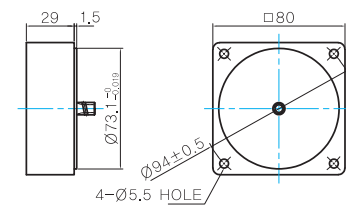
MODEL	SPEC
D-CUT TYPE	
9SRDD□-40	
KEY TYPE	
9SRDK□-40	

KEY SPEC

GEARBOX

INTER-DECIMAL GEARBOX

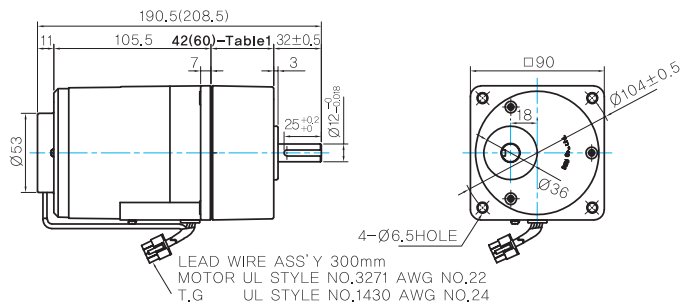
- MODEL: 9XD10□□



GEARED MOTOR

G TYPE GEARBOX

- MOTOR MODEL: 9SRDG□-40G (NO FAN)
- GEARBOX MODEL: 9GBK□BMH



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

KEY SPEC

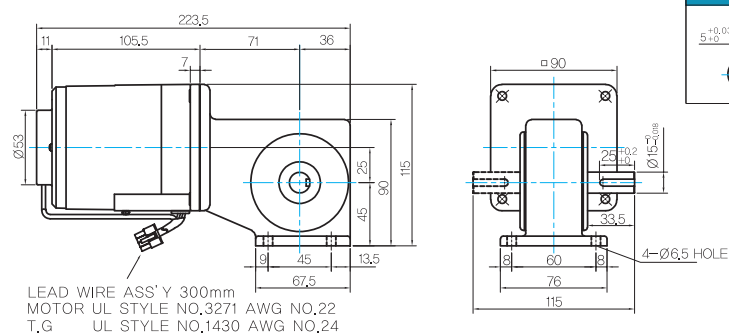
GEARBOX

42(60)-Table1

SIZE(mm)	GEAR RATIO
42	9GBK2BMH - 9GBK18BMH
60	9GBK25BMH - 9GBK2000BMH

W TYPE GEARBOX

- MOTOR MODEL: 9SRDG□-40W (NO FAN)
- GEARBOX MODEL: 9WD□BL/BR/BRL



KEY SPEC

GEARBOX

WEIGHT

PART	WEIGHT(Kg)	
MOTOR	2.5	
GEAR BOX	9GBK2BMH ~ 9GBK15BMH	0.67
	9GBK18BMH ~ 9GBK30BMH	0.96
	9GBK36BMH ~ 9GBK200BMH	1.07
	9WD□BL/BR/BRL	1.0
	9XD10□□	0.5

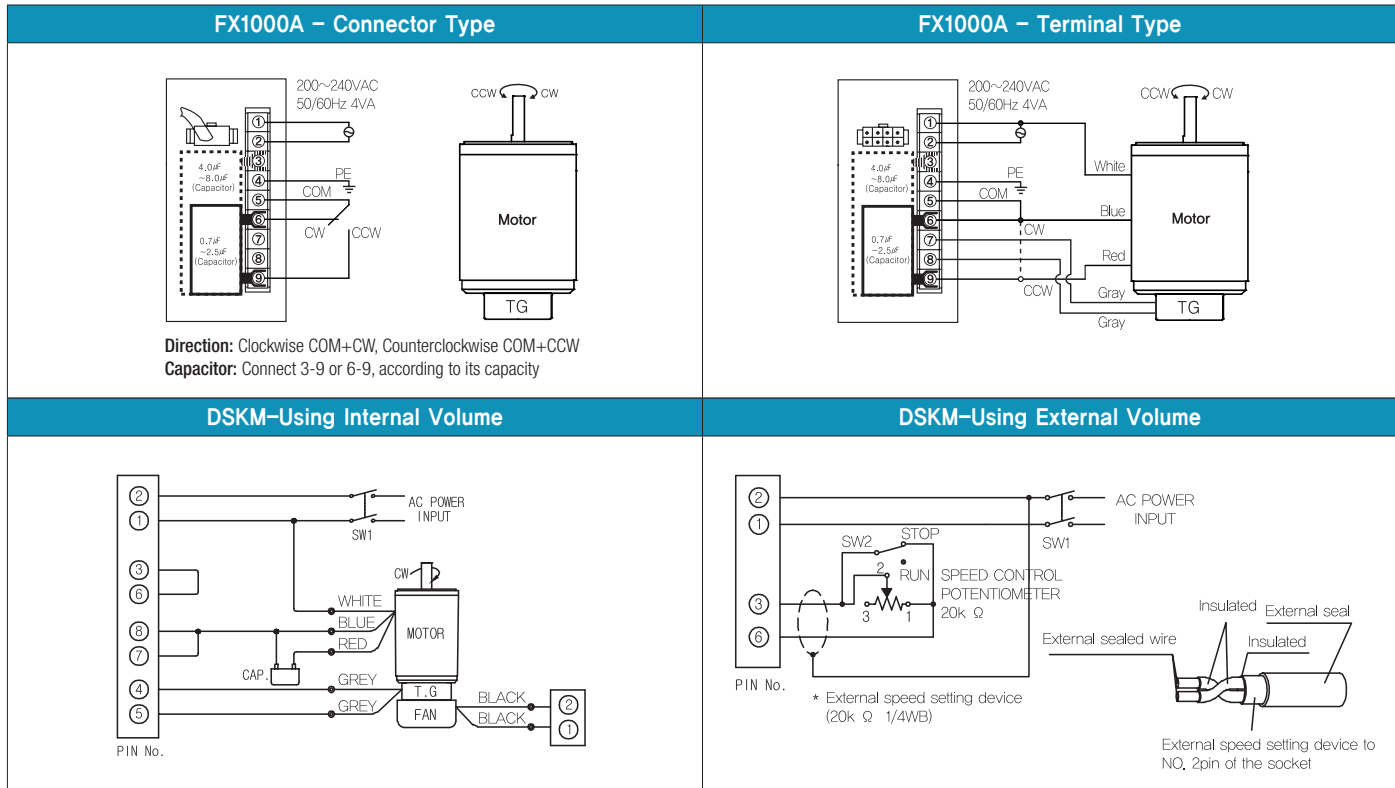
Motor Images



B AC Motors

S.C. Reversible Motor 40W (□90mm)

Connection Diagrams



- 1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation. Now you can adjust the main volume to control the output speed of motor.
- 2) The direction of motor rotation is as viewed from the shaft end of the motor.
- 3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- 4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

S.C. Reversible Motor 60W (□90mm)

60W

Speed Control
Reversible Motor
60W(□90mm)

Motor Specification

Model 9SRDG*-60F2□: Gear Type Shaft 9SRDD*-60F2: D-Cut Type Shaft 9SRDK*-60F2: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque kgfcm N.m		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
9SRDGA-60F2□	60	1∅110	60	4	30min.	90-1700	3.20	0.320	6.10	0.610	2.80	0.280	20.0 / 250
9SRDGD-60F2□	60	1∅220	60	4	30min.	90-1700	3.80	0.380	6.50	0.650	3.00	0.300	5.0 / 400
9SRDGE-60F2□	60	1∅220	50	4	30min.	90-1400	5.20	0.520	5.20	0.520	1.00	0.100	5.0 / 400
		1∅240					5.80	0.580	5.80	0.580	1.00	0.100	

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut & Key Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	2	3	3.6	5	6	7.5	9	12.5	15	18	20
9SRDG□ -60F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	10.1 0.99	15.2 1.49	18.2 1.79	25.3 2.48	30.4 2.98	38.0 3.72	45.6 4.47	57.2 5.60	68.6 6.73	82.4 8.07	83.0 8.13
			220	60	kgfcm N.m	10.8 1.06	16.2 1.59	19.4 1.90	27.0 2.64	32.4 3.17	40.5 3.97	48.6 4.76	60.9 5.97	73.1 7.17	87.8 8.60	88.4 8.66
			220/ 240	50	kgfcm N.m	9.6 0.94	14.4 1.42	17.3 1.70	24.1 2.36	28.9 2.83	36.1 3.54	43.3 4.25	54.4 5.33	65.3 6.39	78.3 7.67	78.9 7.73
		90	110	60	kgfcm N.m	4.6 0.46	7.0 0.68	8.4 0.82	11.6 1.14	13.9 1.37	17.4 1.71	20.9 2.05	26.3 2.57	31.5 3.09	37.8 3.70	38.1 3.73
			220	60	kgfcm N.m	5.0 0.49	7.5 0.73	9.0 0.88	12.5 1.22	14.9 1.46	18.7 1.83	22.4 2.20	28.1 2.76	33.8 3.31	40.5 3.97	40.8 4.00
			220/ 240	50	kgfcm N.m	1.7 0.16	2.5 0.24	3.0 0.29	4.2 0.41	5.0 0.49	6.2 0.61	7.5 0.73	9.4 0.92	11.3 1.10	13.5 1.32	13.6 1.33

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	25	30	36	40	50	60	75	90	100	120	150	180	200
9SRDG□ -60F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm N.m	103.7 10.16	124.4 12.20	149.3 14.63	165.9 16.26	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220	60	kgfcm N.m	110.5 10.83	132.6 12.99	159.1 15.59	176.8 17.33	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220/ 240	50	kgfcm N.m	98.6 9.66	118.3 11.60	142.0 13.91	157.8 15.46	197.2 19.33	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
		90	110	60	kgfcm N.m	47.6 4.66	57.1 5.60	68.5 6.72	76.2 7.46	95.2 9.33	114.2 11.20	128.1 12.55	153.7 15.06	170.8 16.74	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220	60	kgfcm N.m	51.0 5.00	61.2 6.00	73.4 7.20	81.6 8.00	102.0 10.00	122.4 12.00	137.3 13.45	164.7 16.14	183.0 17.93	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220/ 240	50	kgfcm N.m	17.0 1.67	20.4 2.00	24.5 2.40	27.2 2.67	34.0 3.33	40.8 4.00	45.8 4.48	54.9 5.38	61.0 5.98	73.2 7.17	91.5 8.97	109.8 10.76	109.8 10.76

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2-20% less than the displayed value, depending on the size of the load.

B AC Motors

S.C. Reversible Motor 60W (□90mm)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200
9SRDG□ -60F2H	9HBK□ BH	1200	110	60	kgfcm N.m	15.2 1.49	18.2 1.79	30.4 2.98	45.6 4.47	57.2 5.60	68.6 6.73	82.4 8.07	83.0 8.13	103.7 10.16	124.4 12.20	149.3 14.63	207.4 20.33	248.9 24.39	279.1 27.35	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40
			220	60	kgfcm N.m	16.2 1.59	19.4 1.90	32.4 3.17	48.6 4.76	60.9 5.97	73.1 7.17	87.8 8.60	88.4 8.66	110.5 10.83	132.6 12.99	159.1 15.59	221.0 21.66	265.2 25.99	297.4 29.14	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40
			220/240	50	kgfcm N.m	14.4 1.42	17.3 1.70	28.9 2.83	43.3 4.25	54.4 5.33	65.3 6.39	78.3 7.67	78.9 7.73	98.6 9.66	118.3 11.60	142.0 13.91	197.2 19.33	236.6 23.19	265.4 26.00	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40
		90	110	60	kgfcm N.m	7.0 0.68	8.4 0.82	13.9 1.37	20.9 2.05	26.3 2.57	31.5 3.09	37.8 3.70	38.1 3.73	47.6 4.66	57.1 5.60	68.5 6.72	95.2 9.33	114.2 11.20	128.1 12.55	153.7 15.06	170.8 16.74	205.0 20.09	256.2 25.11	300.0 29.40	300.0 29.40
			220	60	kgfcm N.m	7.5 0.73	9.0 0.88	14.9 1.46	22.4 2.20	28.1 2.76	33.8 3.31	40.5 3.97	40.8 4.00	51.0 5.00	61.2 6.00	73.4 7.20	102.0 10.00	122.4 12.00	137.3 13.45	164.7 16.14	183.0 17.93	219.6 21.52	274.5 26.90	300.0 29.40	300.0 29.40
			220/240	50	kgfcm N.m	2.5 0.24	3.0 0.29	5.0 0.49	7.5 0.73	9.4 0.92	11.3 1.10	13.5 1.32	13.6 1.33	17.0 1.67	20.4 2.00	24.5 2.40	34.0 3.33	40.8 4.00	45.8 4.48	54.9 5.38	61.0 5.98	73.2 7.17	91.5 8.97	109.8 10.76	109.8 10.76

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
9SRDG□ -60F2W	9WD□BL/ □BR/□BRL	1200	110	60	kgfcm N.m	50.0 4.90	58.6 5.74	70.5 6.90	81.3 7.96	106.8 10.46	120.8 11.84	140.5 13.77	142.9 14.00	122.4 12.00
			220	60	kgfcm N.m	53.3 5.22	62.4 6.12	75.1 7.36	86.6 8.48	113.8 11.15	128.7 12.61	149.8 14.68	142.9 14.00	122.4 12.00
			220/240	50	kgfcm N.m	47.6 4.66	55.7 5.46	67.0 6.57	77.3 7.57	101.5 9.95	114.8 11.25	133.6 13.10	142.9 14.00	122.4 12.00
		90	110	60	kgfcm N.m	23.0 2.25	26.9 2.63	32.3 3.17	37.3 3.66	49.0 4.80	55.4 5.43	64.5 6.32	84.0 8.23	92.4 9.06
			220	60	kgfcm N.m	24.6 2.41	28.8 2.82	34.7 3.40	40.0 3.92	52.5 5.15	59.4 5.82	69.1 6.77	90.0 8.82	99.0 9.70
			220/240	50	kgfcm N.m	8.2 0.80	9.6 0.94	11.6 1.13	13.3 1.31	17.5 1.72	19.8 1.94	23.0 2.26	30.0 2.94	33.0 3.23

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
9SRDG□ -60F2WH	9WHD□-030	1200	110	60	kgfcm N.m	38.4 3.77	49.4 4.84	69.5 6.81	87.8 8.61	100.7 9.86	117.1 11.48	144.0 14.11	164.7 16.14	163.3 16.00	132.7 13.00
			220	60	kgfcm N.m	41.0 4.01	52.7 5.16	74.1 7.26	93.6 9.17	107.3 10.51	124.8 12.23	153.4 15.03	173.5 17.00	163.3 16.00	132.7 13.00
			220/240	50	kgfcm N.m	36.5 3.58	47.0 4.60	66.1 6.48	83.5 8.18	95.7 9.38	111.4 10.91	136.9 13.41	156.6 15.35	163.3 16.00	132.7 13.00
		90	110	60	kgfcm N.m	17.6 1.73	22.7 2.22	31.9 3.13	40.3 3.95	46.2 4.53	53.8 5.27	66.1 6.48	75.6 7.41	84.0 8.23	98.6 9.66
			220	60	kgfcm N.m	18.9 1.85	24.3 2.38	34.2 3.35	43.2 4.23	49.5 4.85	57.6 5.64	70.8 6.94	81.0 7.94	90.0 8.82	105.6 10.35
			220/240	50	kgfcm N.m	6.3 0.62	8.1 0.79	11.4 1.12	14.4 1.41	16.5 1.62	19.2 1.88	23.6 2.31	27.0 2.65	30.0 2.94	35.2 3.45

Motor Images



B AC Motors

S.C. Reversible Motor 60W (□90mm)

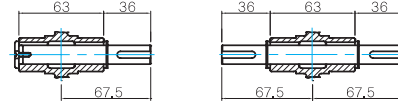
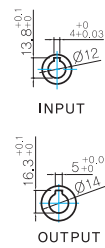
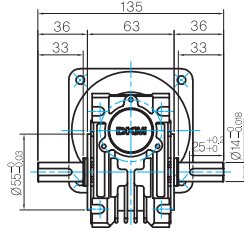
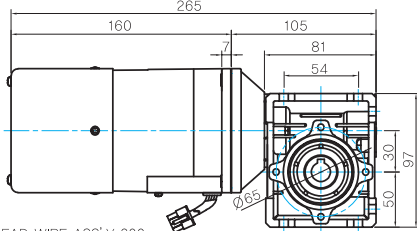
Dimensions

WH TYPE GEARBOX

● MOTOR MODEL:
9SRDG□-60F2WH (POWERFUL FAN)

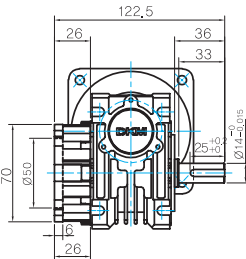
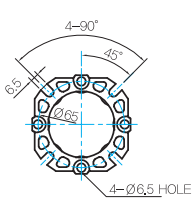
● GEARBOX MODEL:
9WHD□-030

● SHAFT(Unidirectional, Bi-directional)

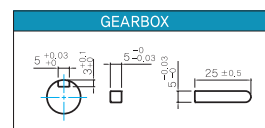


LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO,3271 AWG NO,22
T,G UL STYLE NO,1430 AWG NO,24

● FLANGE



● KEY SPEC

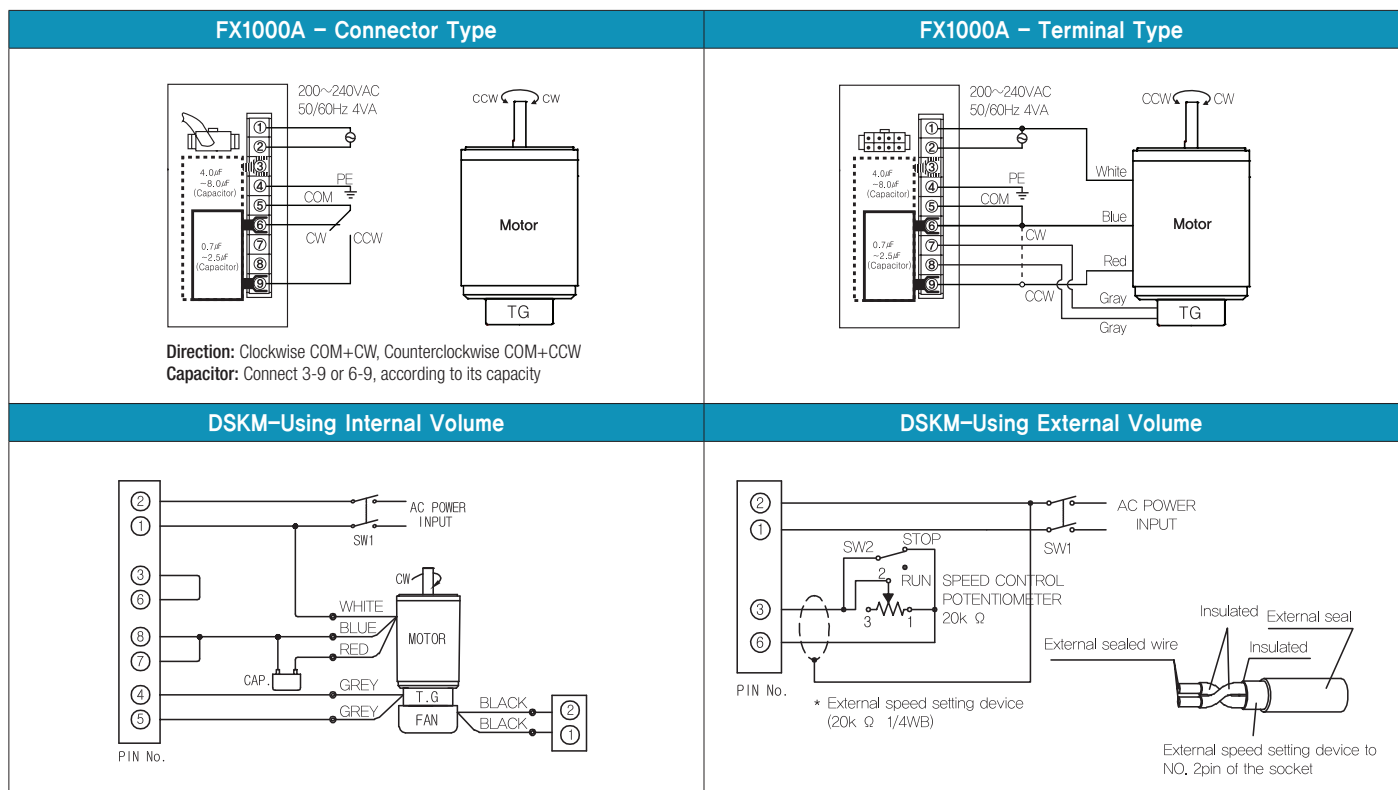


* The output flange and shafts are sold separately.

WEIGHT

PART	WEIGHT(Kg)
MOTOR	2.7
9PB(F)K2BH ~ 9PB(F)K18BH	1.3
9PB(F)K20BH ~ 9PB(F)K200BH	1.4
9HB(F)K3BH ~ 9HB(F)K9BH	1.45
9HB(F)K12.5BH ~ 9HB(F)K18BH	1.5
9HB(F)K20BH ~ 9HB(F)K60BH	1.7
9HB(F)K75BH ~ 9HB(F)K200BH	1.8
9WD□BL/BR/BRL	1.0
9WHD□-030	1.13
9XD10□□	0.5

Connection Diagrams



1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

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

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

S.C. Reversible Motor 90W (□90mm)

90W

Speed Control
Reversible Motor
90W(□90mm)

Motor Specification

Model 9SRDG*-90F2□: Gear Type Shaft 9SRDD*-90F2: D-Cut Type Shaft 9SRDK*-90F2: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque kgfcm N.m		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
9SRDGA-90F2□	90	1∅110	60	4	30min.	90-1700	6.50	0.650	6.30	0.630	3.00	0.300	25.0 / 250
9SRDGD-90F2□	90	1∅220	60	4	30min.	90-1700	6.50	0.650	6.30	0.630	3.00	0.300	6.0 / 400
9SRDGE-90F2□	90	1∅220	50	4	30min.	90-1400	4.60	0.460	5.40	0.540	2.20	0.220	6.0 / 400
		5.50					0.550	6.10	0.610	2.20	0.220		

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut & Key Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	2	3	3.6	5	6	7.5	9	12.5	15	18	20
9SRDG□ -90F2P	9PBK□BH	1200	110	60	kgfcm N.m	10.5 1.02	15.7 1.54	18.8 1.84	26.1 2.56	31.4 3.07	39.2 3.84	47.1 4.61	59.1 5.79	70.9 6.95	85.1 8.33	85.7 8.40
			220	60	kgfcm N.m	10.5 1.02	15.7 1.54	18.8 1.84	26.1 2.56	31.4 3.07	39.2 3.84	47.1 4.61	59.1 5.79	70.9 6.95	85.1 8.33	85.7 8.40
		220/ 240	50	kgfcm N.m	10.1 0.99	15.2 1.49	18.2 1.79	25.3 2.48	30.4 2.98	38.0 3.72	45.6 4.47	57.2 5.60	68.6 6.73	82.4 8.07	83.0 8.13	
	9PFK□BH	90	110	60	kgfcm N.m	5.0 0.49	7.5 0.73	9.0 0.88	12.5 1.22	14.9 1.46	18.7 1.83	22.4 2.20	28.1 2.76	33.8 3.31	40.5 3.97	40.8 4.00
			220	60	kgfcm N.m	5.0 0.49	7.5 0.73	9.0 0.88	12.5 1.22	14.9 1.46	18.7 1.83	22.4 2.20	28.1 2.76	33.8 3.31	40.5 3.97	40.8 4.00
		220/ 240	50	kgfcm N.m	3.7 0.36	5.5 0.54	6.6 0.64	9.1 0.89	11.0 1.07	13.7 1.34	16.4 1.61	20.6 2.02	24.8 2.43	29.7 2.91	29.9 2.93	

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	25	30	36	40	50	60	75	90	100	120	150	180	200
9SRDG□ -90F2P	9PBK□ BH	1200	110	60	kgfcm N.m	107.1 10.50	128.5 12.59	154.2 15.11	171.4 16.79	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220	60	kgfcm N.m	107.1 10.50	128.5 12.59	154.2 15.11	171.4 16.79	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
		220/ 240	50	kgfcm N.m	103.7 10.16	124.4 12.20	149.3 14.63	165.9 16.26	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
	9PFK□BH	90	110	60	kgfcm N.m	51.0 5.00	61.2 6.00	73.4 7.20	81.6 8.00	102.0 10.00	122.4 12.00	137.3 13.45	164.7 16.14	183.0 17.93	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
			220	60	kgfcm N.m	51.0 5.00	61.2 6.00	73.4 7.20	81.6 8.00	102.0 10.00	122.4 12.00	137.3 13.45	164.7 16.14	183.0 17.93	200.0 19.60	200.0 19.60	200.0 19.60	200.0 19.60
		220/ 240	50	kgfcm N.m	37.4 3.67	44.9 4.40	53.9 5.28	59.8 5.86	74.8 7.33	89.8 8.80	100.7 9.86	120.8 11.84	134.2 13.15	161.0 15.78	200.0 19.60	200.0 19.60	200.0 19.60	

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2-20% less than the displayed value, depending on the size of the load.

B AC Motors

S.C. Reversible Motor 90W (□90mm)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200			
9SRDG□ -90F2H	9HBK □BH 9HFK □BH	1200	110	60	kgfcm	15.7	18.8	31.4	47.1	59.1	70.9	85.1	85.7	107.1	128.5	154.2	214.2	257.0	288.2	300.0	300.0	300.0	300.0	300.0	300.0	300.0		
					N.m	1.54	1.84	3.07	4.61	5.79	6.95	8.33	8.40	10.50	12.59	15.11	20.99	25.19	28.25	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
			220/240	50	kgfcm	15.2	18.2	30.4	45.6	57.2	68.6	82.4	83.0	103.7	124.4	149.3	207.4	248.9	279.1	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m			1.49	1.79	2.98	4.47	5.60	6.73	8.07	8.13	10.16	12.20	14.63	20.33	24.39	27.35	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	
		90	110	60	kgfcm	7.5	9.0	14.9	22.4	28.1	33.8	40.5	40.8	51.0	61.2	73.4	102.0	122.4	137.3	164.7	183.0	219.6	274.5	300.0	300.0	300.0	300.0	300.0
					N.m	0.73	0.88	1.46	2.20	2.76	3.31	3.97	4.00	5.00	6.00	7.20	10.00	12.00	13.45	16.14	17.93	21.52	26.90	29.40	29.40	29.40	29.40	29.40
220/240	50		kgfcm	7.5	9.0	14.9	22.4	28.1	33.8	40.5	40.8	51.0	61.2	73.4	102.0	122.4	137.3	164.7	183.0	219.6	274.5	300.0	300.0	300.0	300.0	300.0		
		N.m	0.73	0.88	1.46	2.20	2.76	3.31	3.97	4.00	5.00	6.00	7.20	10.00	12.00	13.45	16.14	17.93	21.52	26.90	29.40	29.40	29.40	29.40	29.40			

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
9SRDG□ -90F2W	9WD□BL/ □BR/□BRL	1200	110	60	kgfcm	51.7	60.5	72.8	83.9	110.3	124.7	145.2	142.9	122.4
					N.m	5.06	5.93	7.13	8.22	10.80	12.22	14.22	14.00	12.00
			220/240	50	kgfcm	50.0	58.6	70.5	81.3	106.8	120.8	140.5	142.9	122.4
		N.m			4.90	5.74	6.90	7.96	10.46	11.84	13.77	14.00	12.00	
		90	110	60	kgfcm	24.6	28.8	34.7	40.0	52.5	59.4	69.1	90.0	99.0
					N.m	2.41	2.82	3.40	3.92	5.15	5.82	6.77	8.82	9.70
220/240	50		kgfcm	24.6	28.8	34.7	40.0	52.5	59.4	69.1	90.0	99.0		
		N.m	2.41	2.82	3.40	3.92	5.15	5.82	6.77	8.82	9.70			

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
9SRDG□ -90F2WH	9WHD□ -030	1200	110	60	kgfcm	39.7	51.0	71.8	90.7	104.0	121.0	148.7	170.1	163.3	132.7
					N.m	3.89	5.00	7.04	8.89	10.19	11.85	14.57	16.67	16.00	13.00
			220/240	50	kgfcm	38.4	49.4	69.5	87.8	100.7	117.1	144.0	164.7	163.3	132.7
		N.m			3.77	4.84	6.81	8.61	9.86	11.48	14.11	16.14	16.00	13.00	
		90	110	60	kgfcm	18.9	24.3	34.2	43.2	49.5	57.6	70.8	81.0	90.0	105.6
					N.m	1.85	2.38	3.35	4.23	4.85	5.64	6.94	7.94	8.82	10.35
220/240	50		kgfcm	18.9	24.3	34.2	43.2	49.5	57.6	70.8	81.0	90.0	105.6		
		N.m	1.85	2.38	3.35	4.23	4.85	5.64	6.94	7.94	8.82	10.35			

Motor Images



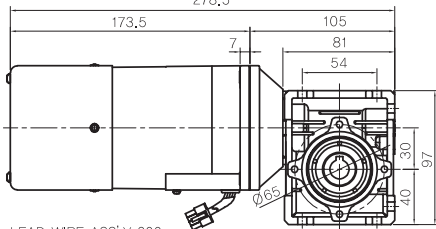
B AC Motors

S.C. Reversible Motor 90W (□90mm)

Dimensions

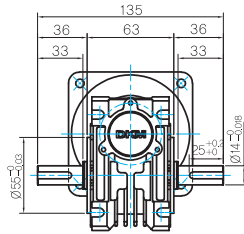
WH TYPE GEARBOX

● MOTOR MODEL:
9SRDG□-90F2WH (POWERFUL FAN)
278,5

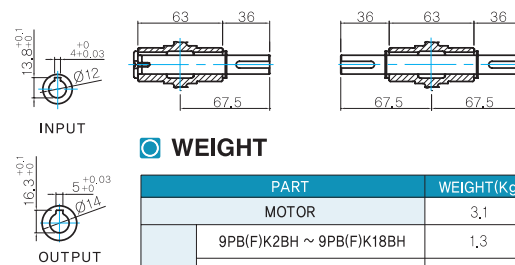


LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO,3271 AWG NO,22
T.G UL STYLE NO,1430 AWG NO,24

● GEARBOX MODEL:
9WHD□-030



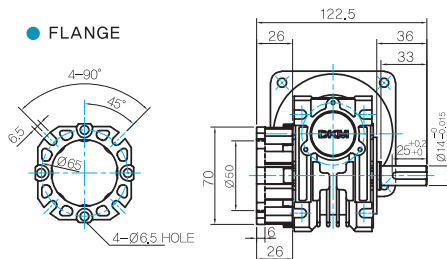
● SHAFT(Unidirectional, Bi-directional)



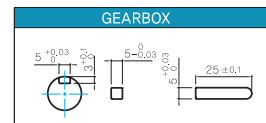
WEIGHT

PART	WEIGHT(Kg)
MOTOR	3,1
9PB(F)K2BH ~ 9PB(F)K18BH	1,3
9PB(F)K20BH ~ 9PB(F)K200BH	1,4
9HB(F)K3BH ~ 9HB(F)K9BH	1,45
9HB(F)K12.5BH ~ 9HB(F)K18BH	1,5
9HB(F)K20BH ~ 9HB(F)K60BH	1,7
9HB(F)K75BH ~ 9HB(F)K200BH	1,8
9WD□BL/BR/BRL	1,0
9WHD□-030	1,13
9XD10□□	0,5

FLANGE



KEY SPEC



* The output flange and shafts are sold separately.

Connection Diagrams

FX1000A – Connector Type	FX1000A – Terminal Type
<p>Direction: Clockwise COM+CW, Counterclockwise COM+CCW Capacitor: Connect 3-9 or 6-9, according to its capacity</p>	
DSKM-Using Internal Volume	DSKM-Using External Volume
	<p>* External speed setting device (20k Ω 1/4WB)</p>

1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

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

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.

120W

Speed Control
Reversible Motor
120W(□90mm)

Motor Specification

Model 9SRDG*-120F2□: Gear Type Shaft 9SRDD*-120F2: D-Cut Type Shaft 9SRDK*-120F2: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
9SRDGA-120F2□	120	1∅110	60	4	30min.	90-1700	7.80	0.780	7.50	0.750	4.20	0.420	30.0 / 250
9SRDGD-120F2□	120	1∅220	60	4	30min.	90-1700	7.80	0.780	7.50	0.750	4.20	0.420	6.5 / 400
9SRDGE-120F2□	120	1∅220	50	4	30min.	90-1400	5.60	0.560	7.20	0.720	4.00	0.400	6.5 / 400
		1∅240					6.50	0.650	7.90	0.790	4.00	0.400	

1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft are for attaching Gearbox and D-Cut & Key Type Shaft are for using motor only.

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	2	3	3.6	5	6	7.5	9	12.5	15	18	20
9SRDG□ -120F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm	12.5	18.7	22.4	31.1	37.4	46.7	56.0	70.3	84.4	101.3	102.0
					N.m	1.22	1.83	2.20	3.05	3.66	4.58	5.49	6.89	8.27	9.92	10.00
			220	60	kgfcm	12.5	18.7	22.4	31.1	37.4	46.7	56.0	70.3	84.4	101.3	102.0
		220/ 240	50	N.m	1.22	1.83	2.20	3.05	3.66	4.58	5.49	6.89	8.27	9.92	10.00	
		90	110	60	kgfcm	12.0	17.9	21.5	29.9	35.9	44.8	53.8	67.5	81.0	97.2	97.9
					N.m	1.17	1.76	2.11	2.93	3.51	4.39	5.27	6.62	7.94	9.53	9.60
220	60		kgfcm	7.0	10.5	12.5	17.4	20.9	26.1	31.4	39.4	47.3	56.7	57.1		
220/ 240	220	60	N.m	0.68	1.02	1.23	1.71	2.05	2.56	3.07	3.86	4.63	5.56	5.60		
			kgfcm	7.0	10.5	12.5	17.4	20.9	26.1	31.4	39.4	47.3	56.7	57.1		
	220/ 240	50	N.m	0.68	1.02	1.23	1.71	2.05	2.56	3.07	3.86	4.63	5.56	5.60		
kgfcm	6.6	10.0	12.0	16.6	19.9	24.9	29.9	37.5	45.0	54.0	54.4					
N.m	0.65	0.98	1.17	1.63	1.95	2.44	2.93	3.68	4.41	5.29	5.33					

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	25	30	36	40	50	60	75	90	100	120	150	180		
9SRDG□ -120F2P	9PBK□BH 9PFK□BH	1200	110	60	kgfcm	127.5	153.0	183.6	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0		
					N.m	12.50	14.99	17.99	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60		
			220	60	kgfcm	127.5	153.0	183.6	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	
			220/ 240	50	N.m	12.50	14.99	17.99	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	
			90	110	60	kgfcm	122.4	146.9	176.3	195.8	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
						N.m	12.00	14.39	17.27	19.19	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60	19.60
		220		60	kgfcm	71.4	85.7	102.8	114.2	142.8	171.4	192.2	200.0	200.0	200.0	200.0	200.0		
					N.m	7.00	8.40	10.08	11.20	13.99	16.79	18.83	19.60	19.60	19.60	19.60	19.60		
		220/ 240		220	60	kgfcm	71.4	85.7	102.8	114.2	142.8	171.4	192.2	200.0	200.0	200.0	200.0		
						N.m	7.00	8.40	10.08	11.20	13.99	16.79	18.83	19.60	19.60	19.60	19.60	19.60	
		220/ 240	50	kgfcm	68.0	81.6	97.9	108.8	136.0	163.2	183.0	200.0	200.0	200.0	200.0				
		N.m	6.66	8.00	9.60	10.66	13.33	15.99	17.93	19.60	19.60	19.60	19.60	19.60					

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio.

The actual speed is 2-20% less than the displayed value, depending on the size of the load.

B AC Motors

S.C. Reversible Motor 120W (□90mm)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200		
9SRDG□ -120F2H	9HBK □BH 9HFK □BH	1200	110	60	kgfcm	18.7	22.4	37.4	56.0	70.3	84.4	101.3	102.0	127.5	153.0	183.6	255.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	
					N.m	1.83	2.20	3.66	5.49	6.89	8.27	9.92	10.00	12.50	14.99	17.99	24.99	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
			220	60	kgfcm	18.7	22.4	37.4	56.0	70.3	84.4	101.3	102.0	127.5	153.0	183.6	255.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	1.83	2.20	3.66	5.49	6.89	8.27	9.92	10.00	12.50	14.99	17.99	24.99	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
		220/240	50	kgfcm	17.9	21.5	35.9	53.8	67.5	81.0	97.2	97.9	122.4	146.9	176.3	244.8	293.8	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	1.76	2.11	3.51	5.27	6.62	7.94	9.53	9.60	12.00	14.39	17.27	23.99	28.79	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
90	110	60	kgfcm	10.5	12.5	20.9	31.4	39.4	47.3	56.7	57.1	71.4	85.7	102.8	142.8	171.4	192.2	230.6	256.2	300.0	300.0	300.0	300.0	300.0	300.0	300.0	
			N.m	1.02	1.23	2.05	3.07	3.86	4.63	5.56	5.60	7.00	8.40	10.08	13.99	16.79	18.83	22.60	25.11	29.40	29.40	29.40	29.40	29.40	29.40	29.40	
	220	60	kgfcm	10.5	12.5	20.9	31.4	39.4	47.3	56.7	57.1	71.4	85.7	102.8	142.8	171.4	192.2	230.6	256.2	300.0	300.0	300.0	300.0	300.0	300.0	300.0	
	N.m	1.02	1.23	2.05	3.07	3.86	4.63	5.56	5.60	7.00	8.40	10.08	13.99	16.79	18.83	22.60	25.11	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40		
	220/240	50	kgfcm	10.0	12.0	19.9	29.9	37.5	45.0	54.0	54.4	68.0	81.6	97.9	136.0	163.2	183.0	219.6	244.0	292.8	300.0	300.0	300.0	300.0	300.0	300.0	
	N.m	0.98	1.17	1.95	2.93	3.68	4.41	5.29	5.33	6.66	8.00	9.60	13.33	15.99	17.93	21.52	23.91	28.69	29.40	29.40	29.40	29.40	29.40	29.40	29.40		

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
9SRDG□ -120F2W	9WD□BL/ □BR/□BRL	1200	110	60	kgfcm	61.5	72.0	86.6	99.9	131.3	148.5	153.1	142.9	122.4
					N.m	6.03	7.06	8.49	9.79	12.86	14.55	15.00	14.00	12.00
			220	60	kgfcm	61.5	72.0	86.6	99.9	131.3	148.5	153.1	142.9	142.9
		N.m	6.03	7.06	8.49	9.79	12.86	14.55	15.00	14.00	12.00			
		220/240	50	kgfcm	59.0	69.1	83.2	95.9	126.0	142.6	153.1	142.9	122.4	
		N.m	5.79	6.77	8.15	9.40	13.97	15.00	14.00	12.00				
90	110	60	kgfcm	34.4	40.3	48.5	55.9	73.5	83.2	96.8	126.0	122.4		
			N.m	3.38	3.95	4.75	5.48	7.20	8.15	9.48	12.35	12.00		
	220	60	kgfcm	34.4	40.3	48.5	55.9	73.5	83.2	96.8	126.0	122.4		
N.m	3.38	3.95	4.75	5.48	7.20	8.15	9.48	12.35	12.00					
220/240	50	kgfcm	32.8	38.4	46.2	53.3	70.0	79.2	92.2	120.0	122.4			
N.m	3.21	3.76	4.53	5.22	6.86	7.76	9.03	11.76	12.00					

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
9SRDG□ -120F2WH	9WHD□-030	1200	110	60	kgfcm	47.3	60.8	85.5	108.0	123.8	144.0	177.0	173.5	163.3	132.7
					N.m	4.63	5.95	8.38	10.58	12.13	14.11	17.35	17.00	16.00	13.00
			220	60	kgfcm	47.3	60.8	85.5	108.0	123.8	144.0	177.0	173.5	163.3	163.3
		N.m	4.63	5.95	8.38	10.58	12.13	14.11	17.35	17.00	16.00	13.00			
		220/240	50	kgfcm	49.8	64.0	90.1	113.8	130.4	151.7	183.7	173.5	163.3	163.3	132.7
		N.m	4.88	6.27	8.83	11.15	12.77	14.86	18.00	17.00	16.00	13.00			
90	110	60	kgfcm	26.5	34.0	47.9	60.5	69.3	80.6	99.1	113.4	126.0	132.7		
			N.m	2.59	3.33	4.69	5.93	6.79	7.90	9.71	11.11	12.35	13.00		
	220	60	kgfcm	26.5	34.0	47.9	60.5	69.3	80.6	99.1	113.4	126.0	132.7		
N.m	2.59	3.33	4.69	5.93	6.79	7.90	9.71	11.11	12.35	13.00					
220/240	50	kgfcm	25.2	32.4	45.6	57.6	66.0	76.8	94.4	108.0	120.0	132.7			
N.m	2.47	3.18	4.47	5.64	6.47	7.53	9.25	10.58	11.76	13.00					

Motor Images



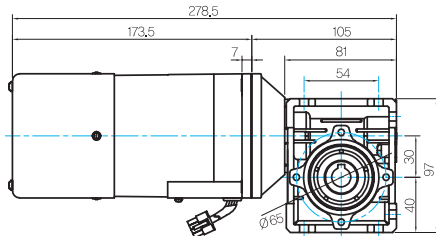
B AC Motors

S.C. Reversible Motor 120W (□90mm)

Dimensions

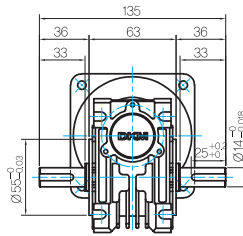
WH TYPE GEARBOX

- MOTOR MODEL:
9SRDG□-120F2WH (POWERFUL FAN)

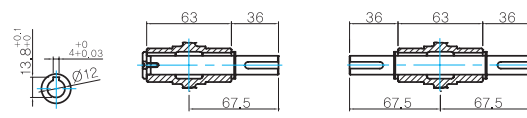


LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO,3271 AWG NO,22
T,G UL STYLE NO,1430 AWG NO,24

- GEARHEAD MODEL:
9WHD□-030



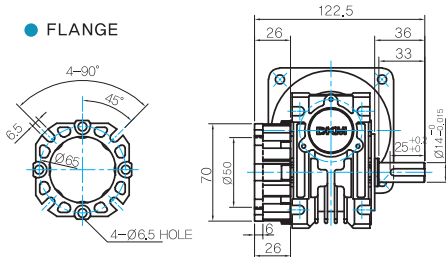
- SHAFT (Unidirectional, Bi-directional)



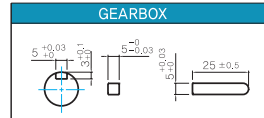
WEIGHT

PART	WEIGHT(Kg)
MOTOR	3,1
9PB(F)K2BH ~ 9PB(F)K18BH	1,3
9PB(F)K20BH ~ 9PB(F)K200BH	1,4
9HB(F)K3BH ~ 9HB(F)K9BH	1,45
9HB(F)K12.5BH ~ 9HB(F)K18BH	1,5
9HB(F)K20BH ~ 9HB(F)K60BH	1,7
9HB(F)K75BH ~ 9HB(F)K200BH	1,8
9WD□BL/BR/BRL	1,0
9WHD□-030	1,13
9XD10□□	0,5

- FLANGE



- KEY SPEC



* The output flange and shafts are sold separately.

Connection Diagrams

FX1000A – Connector Type	FX1000A – Terminal Type
<p>Direction: Clockwise COM+CW, Counterclockwise COM+CCW Capacitor: Connect 3-9 or 6-9, according to its capacity</p>	
DSKM-Using Internal Volume	DSKM-Using External Volume
	<p>* External speed setting device (20k Ω 1/4WB)</p> <p>External speed setting device to NO. 2pin of the socket</p>

1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

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

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.