

## Induction Motor 200W(□90mm)

# 200W

Induction Motor  
200W(□90mm)

### Motor Specification

Model		Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load			Capacitor μF / VAC	
Lead Wire Type	Terminal Box Type						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
9IDG□-200F□	9IDGG-200F□-T	200	3∅220	50	4	Cont.	32.00	3.200	1300	1.40	15.00	1,500	-
				60			27.00	2,700	1550	1.20	13.00	1,300	
9IDG□-200F□	9IDGK-200F□-T	200	3∅380	50	4	Cont.	26.00	2,600	1300	0.69	15.00	1,500	-
				60			22.00	2,200	1550	0.61	12.80	1,280	
				50	4	Cont.	30.00	3,000	1300	0.75	15.00	1,500	
				60			25.00	2,500	1600	0.60	12.20	1,220	

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

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

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

### Max. Permissible Torque at Output Shaft of Gearhead

#### 60Hz

Motor Model	Gearhead Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	
			r/min	600	500	300	200	144	120	100	90	72	60	50	36	30	24	20	18	15	12	10
9IDG□-200FH	9HBK□BH 9HFK□BH	kgfcm	32.4	38.8	64.7	97.1	121.9	146.3	175.5	176.8	221.0	265.2	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	3.17	3.81	6.34	9.52	11.94	14.33	17.20	17.33	21.66	25.99	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearhead Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
			r/min	240	180	120	90	72	60	45	36	30
9IDG□-200FWH	9WHD□	kgfcm	81.9	105.3	148.2	183.7	214.3	204.1	183.7	173.5	163.3	132.7
		N.m	8.03	10.32	14.52	18.00	21.00	20.00	18.00	17.00	16.00	13.00

#### 50Hz

Motor Model	Gearhead Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	
			r/min	500	417	250	167	120	100	83	75	60	50	42	30	25	20	17	15	13	10	8
9IDG□-200FH	9HBK□BH 9HFK□BH	kgfcm	37.4	44.8	74.7	112.1	140.6	168.8	202.5	204.0	255.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	3.66	4.39	7.32	10.98	13.78	16.54	19.85	19.99	24.99	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearhead Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80
			r/min	200	150	100	75	60	50	38	30	25
9IDG□-200FWH	9WHD□	kgfcm	94.5	121.5	171.0	183.7	214.3	204.1	183.7	173.5	163.3	132.7
		N.m	9.26	11.91	16.76	18.00	21.00	20.00	18.00	17.00	16.00	13.00

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

2) Enter the gear ratio in the box (□) within the gearhead 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.

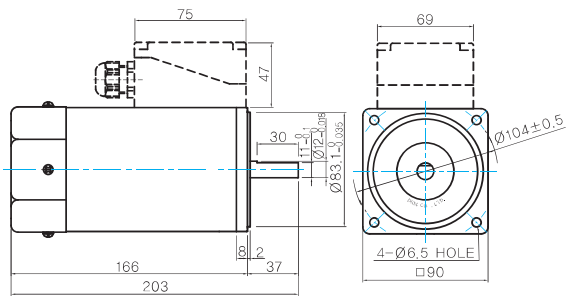
# B AC Motors

## Induction Motor 200W(□90mm)

### Dimensions

#### MOTOR ONLY

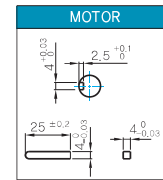
- MOTOR MODEL: 9IDD□-200F(-T) (GENERAL FAN)



#### MOTOR OUTPUT SHAFT

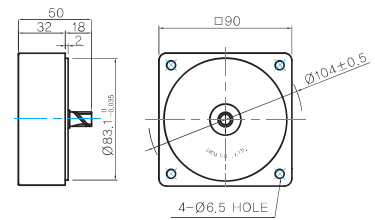
MODEL	SPEC
D-CUT TYPE	37 30 11.5 Ø12.0 <sup>+0.015</sup>
9IDD□-200F	
KEY TYPE	37 25 Ø12.0 <sup>+0.015</sup>
9IDK□-200F	

#### KEY SPEC



#### INTER-DECIMAL GEARHEAD

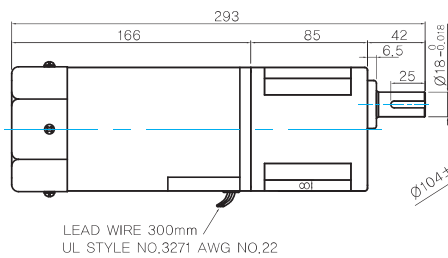
- MODEL: 9XD10M□



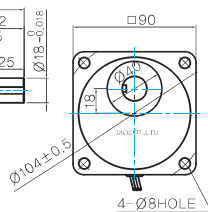
### GEARED MOTOR

#### H TYPE GEARHEAD

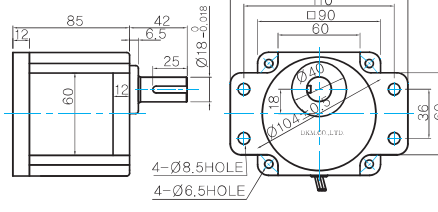
- MOTOR MODEL: 9IDG□-200FH (GENERAL FAN)



- GEARHEAD MODEL: 9HBK□BH



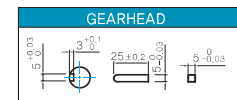
- GEARHEAD MODEL: 9HFK□BH



#### GEARHEAD OUTPUT SHAFT

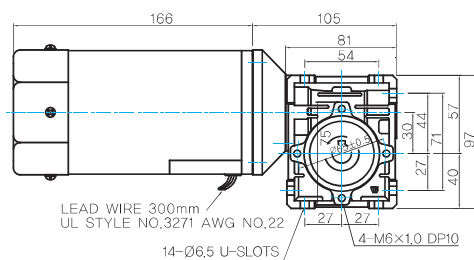
MODEL	SPEC
KEY TYPE	42 25 Ø18.0 <sup>+0.018</sup>
9HBK□BH	
9HFK□BH	

#### KEY SPEC

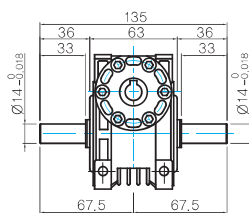


#### WH TYPE GEARHEAD

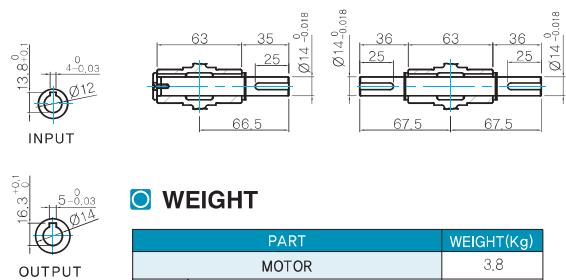
- MOTOR MODEL: 9IDG□-200FWH (GENERAL FAN)



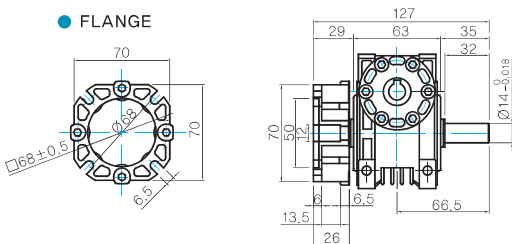
- GEARHEAD MODEL: 9WHD□



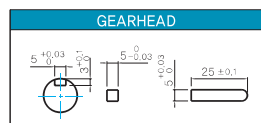
- SHAFT(Unidirectional, Bi-directional)



#### FLANGE



#### KEY SPEC

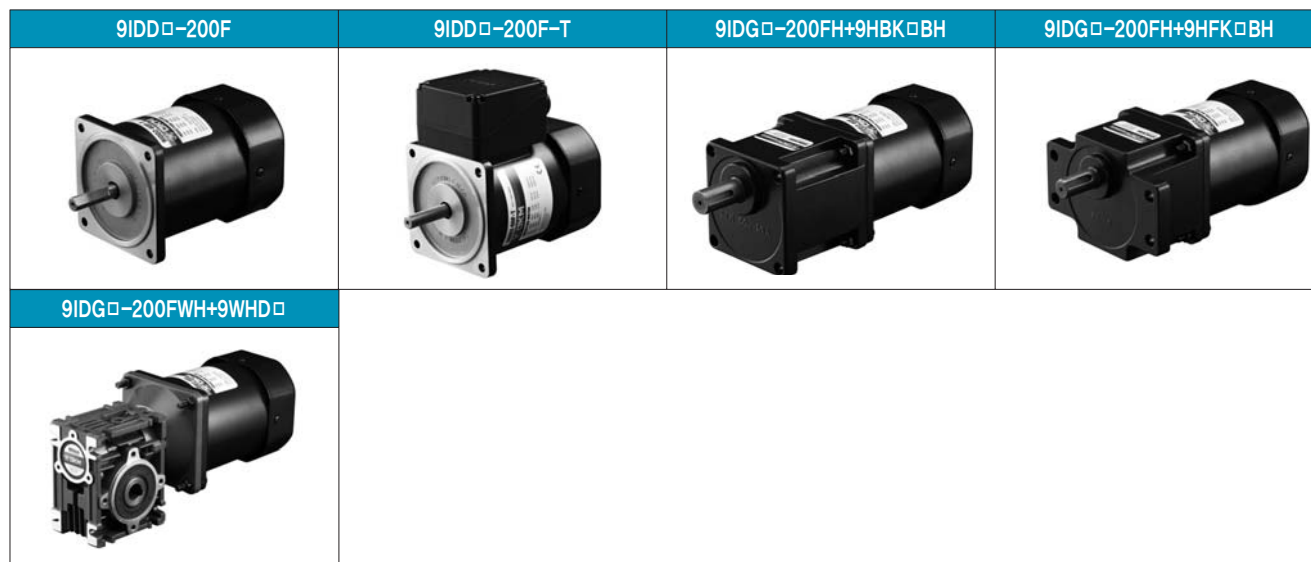


#### WEIGHT

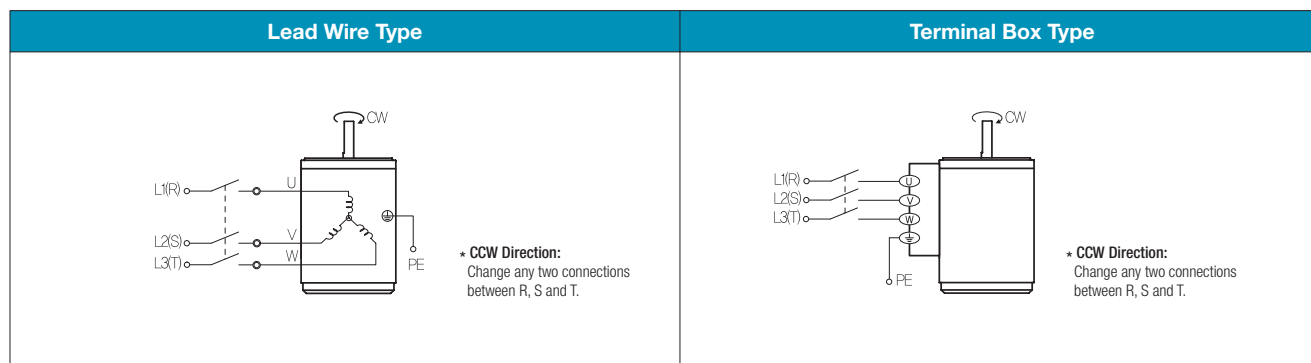
PART		WEIGHT(Kg)
MOTOR		3.8
GEAR HEAD	9HB(F)K3BH ~ 9HB(F)K9BH	1.45
	9HB(F)K12.5BH ~ 9HB(F)K18BH	1.5
	9HB(F)K20BH ~ 9HB(F)K60BH	1.7
	9HB(F)K75BH ~ 9HB(F)K180BH	1.8
	9WHD□	1.13
9XD10M□		0.5

\* The output flange and shafts are sold separately.

## Motor Images



## Connection Diagrams



- 1) The direction of motor rotation is as viewed from the shaft end of the motor.
- 2) CW represents the clockwise direction, while CCW represents the counterclockwise direction.