150W Induction Motor 150W(□90mm)

Motor Specification

Model (9IDG*-150F□(-T): Gear Type Shaft, 9IDD*-150F(-T): D-Cut Type Shaft, 9IDK*-150F(-T): Key Type Shaft)		Output	Voltage	Frequency	Poles	Duty	Starting Torque		Rated Load				Capacitor
									Speed	Current	Torque		
Lead Wire Type	Terminal Box Type	W	V	Hz			kgfcm	N.m	r/min	A	kgfcm	N.m	μF / VAC
9IDGG-150F□	9IDGG-150F□-T	150	3ø220	50	4	Cont.	22.00	2.200	1300	1.00	11.30	1.130	–
				60			19.00	1.900	1550	0.90	9.40	0.940	
9IDGK-150F□	9IDGK-150F□-T	150	3ø380	50	4	Cont.	18.00	1.800	1250	0.46	11.70	1.170	–
				60			15.00	1.500	1500	0.42	9.70	0.970	
			3ø400	50	4	Cont.	19.00	1.900	1250	0.49	11.70	1.170	
				60			16.00	1.600	1500	0.43	9.70	0.970	

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 is for attaching Gearbox and D-Cut & Key Type Shafts are for using motor only.
※ It is not possible to use inverter for three phase 380~440V motor. When inverter is used, the insulation of winding coil becomes hot and may cause damage to the motor.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200
		r/min	600	500	300	200	144	120	100	90	72	60	50	36	30	24	20	18	15	12	10	9
9IDG□-150FH	9HBK□BH 9HFK□BH	kgfcm	24.2	29.0	48.3	72.5	90.9	109.1	131.0	131.9	164.9	197.9	237.5	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	2.37	2.84	4.73	7.10	8.91	10.69	12.83	12.93	16.16	19.39	23.27	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearbox Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80	100
		r/min	240	180	120	90	72	60	45	36	30	22.5	18
9IDG□-150FWH	9WHD□-030	kgfcm	61.1	78.6	110.6	139.7	160.1	186.2	183.7	173.5	163.3	132.7	–
		N.m	5.99	7.70	10.84	13.69	15.68	18.25	18.00	17.00	16.00	13.00	–
	9WHD□-040	kgfcm	–	–	–	–	–	–	–	230.0	255.0	295.0	270.0
		N.m	–	–	–	–	–	–	–	22.55	25.00	28.92	26.47

50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200
		r/min	500	417	250	167	120	100	83	75	60	50	42	30	25	20	17	15	13	10	8	7.5
9IDG□-150FH	9HBK□BH 9HFK□BH	kgfcm	28.1	33.8	56.3	84.4	105.9	127.1	152.6	153.7	192.1	230.5	276.6	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
		N.m	2.76	3.31	5.51	8.27	10.38	12.46	14.95	15.06	18.83	22.59	27.11	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearbox Model	Gear Ratio	7.5	10	15	20	25	30	40	50	60	80	100
		r/min	200	150	100	75	60	50	37.5	30	25	18.75	15
9IDG□-150FWH	9WHD□-030	kgfcm	71.2	91.5	128.8	162.7	186.5	204.1	183.7	173.5	163.3	132.7	–
		N.m	6.98	8.97	12.62	15.95	18.28	20.00	18.00	17.00	16.00	13.00	–
	9WHD□-040	kgfcm	–	–	–	–	–	–	–	275.0	305.0	295.0	270.0
		N.m	–	–	–	–	–	–	–	26.96	29.90	28.92	26.47

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.

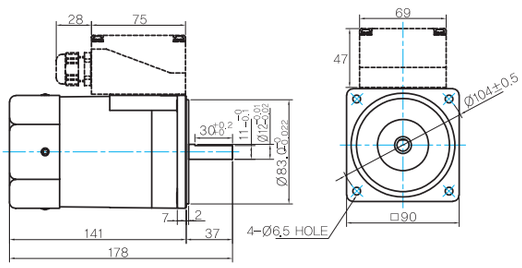
B AC Motors

Induction Motor 150W(□90mm)

Dimensions

MOTOR ONLY

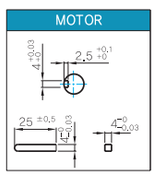
● MOTOR MODEL:
9IDD□-150F(-T) (GENERAL FAN)



● MOTOR OUTPUT SHAFT

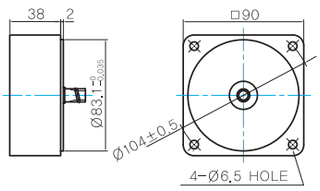
MODEL	SPEC
D-CUT TYPE	
9IDD□-150F	
KEY TYPE	
9IDK□-150F	

● KEY SPEC



INTER-DECIMAL GEARBOX

● MODEL:
9XD10□□



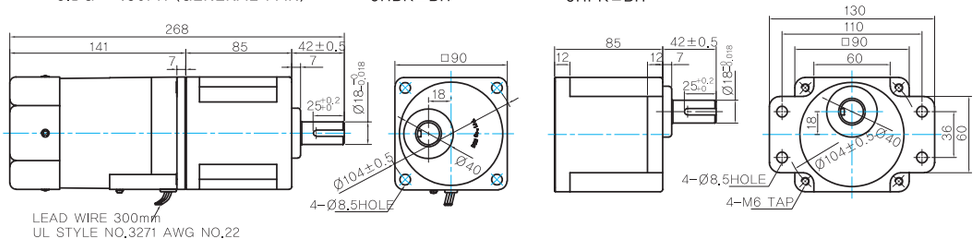
GEARED MOTOR

H TYPE GEARBOX

● MOTOR MODEL:
9IDG□-150FH (GENERAL FAN)

● GEARBOX MODEL:
9HBK□BH

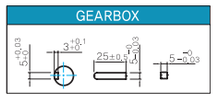
● GEARBOX MODEL:
9HFK□BH



● GEARBOX OUTPUT SHAFT

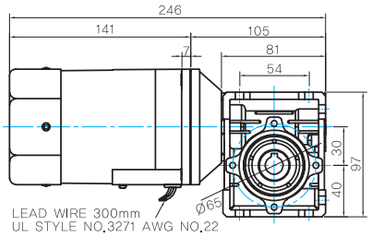
MODEL	SPEC
KEY TYPE	
9HBK□BH 9HFK□BH	

● KEY SPEC

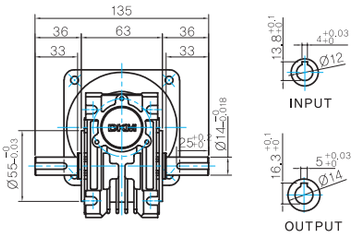


WH TYPE GEARBOX

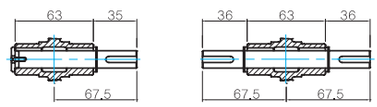
● MOTOR MODEL:
9IDG□-150FWH (GENERAL FAN)



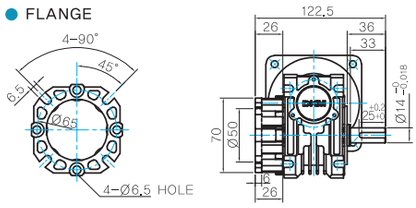
● GEARBOX MODEL:
9WHD□-030



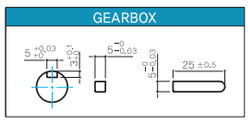
● SHAFT(Unidirectional, Bi-directional)



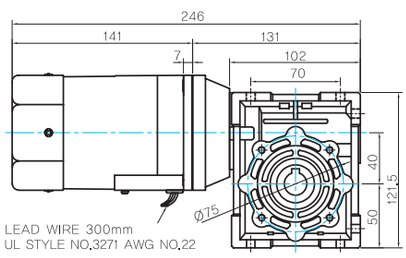
● FLANGE



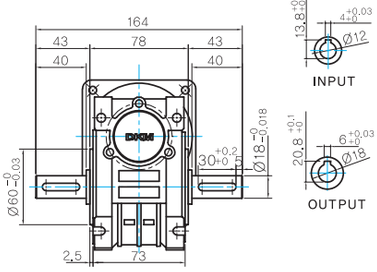
● KEY SPEC



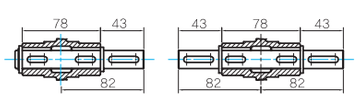
● MOTOR MODEL:
9IDG□-150FWH (GENERAL FAN)



● GEARBOX MODEL:
9WHD□-040

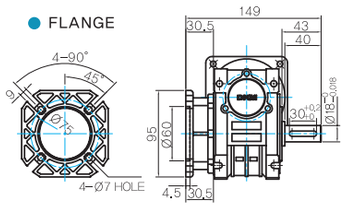


● SHAFT

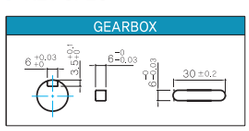


한방향 양방향

● FLANGE



● KEY SPEC



● WEIGHT

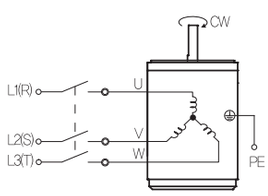
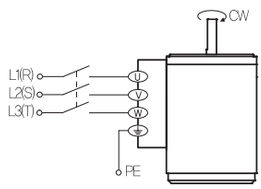
PART		WEIGHT(Kg)
MOTOR		3.0
GEAR BOX	9HB(F)K3BH ~ 9HB(F)K9BH	1.45
	9HB(F)K12.5BH ~ 9HB(F)K18BH	1.5
	9HB(F)K20BH ~ 9HB(F)K60BH	1.7
	9HB(F)K75BH ~ 9HB(F)K200BH	1.8
	9WHD□-030	1.13
	9WHD□-040	2.2
	9XD10□□	0.5

* 출력 FLANGE와 SHAFT는 별매입니다.

Motor Images

9IDD□-150F	9IDD□-150F-T	9IDG□-150FH+9HBK□BH	9IDG□-150FH+9HFK□BH	9IDG□-150FWH+9WHD□-030
				

Connection Diagrams

Lead Wire Type	Terminal Box Type
	

* **CCW Direction:**
Change any two connections among R, S and T.

* **CCW Direction:**
Change any two connections among R, S and T.

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.