

Induction Motor 180W(□ 90mm)

180W Induction Motor 180W(□ 90mm)

Motor 사양

Model		Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque kgfcm N.m		Rated Load			Capacitor μF / VAC
									Speed r/min	Current A	Torque kgfcm N.m	
9IDG*~180F□(-T): Gear Type Shaft 9IDD*~180F(-T): D-Cut Type Shaft 9IDK*~180F(-T): Key Type Shaft												
Lead Wire Type	Terminal Box Type											
9ID◇1(A)~180F□	9ID◇1(A)~180F□-T	180	1φ 110	60	4	Cont.	7.40	0.740	1600	3.00	10.96 1,096	30.0 / 250
9ID◇2(D)~180F□	9ID◇2(D)~180F□-T	180	1φ 220	60	4	Cont.	7.80	0.780	1600	1.50	10.96 1,096	8.0 / 450
9ID◇E~180F□	9ID◇E~180F□-T	180	1φ 220	50	4	Cont.	8.10	0.810	1250	1.50	14.03 1,403	8.0 / 450
			1φ 240				9.70	0.970	1300	1.60	13.49 1,349	

1) 모터 모델명 * 자리에는 전압코드가 들어갑니다. 2) 모터 모델명 ◇ 자리에는 모터 출력축 타입명이 들어갑니다. (G: Gear Type / D: D-Cut Type / K: Key Type) Gear Type Shaft는 감속기 부착 용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용 시의 출력축입니다. 3) 모터 출력축 타입이 Gear Type일 경우, □ 안에는 부착되는 감속기의 모델 타입명이 들어갑니다. 4) 전압코드 A, D, E는 TP(Thermal Protector) 부착 사양입니다.

감속기 부착 시 최대허용토크

60Hz

Motor Model	Gearbox Model	감속비	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
9IDG*~180FH	9HBK□BH 9HFK□BH	kgfcm N.m	26.6 2.61	32.0 3.13	44.4 4.35	53.3 5.22	66.6 6.52	79.9 7.83	88.8 8.70	100.0 9.80	120.0 11.76	144.0 14.11	160.0 15.68	180.8 17.72	217.0 21.26	260.4 25.51	289.3 28.35	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40	300.0 29.40

Motor Model	Gearbox Model	감속비 r/min	5	7.5	10	15	20	25	30	40	50	60	80	100
			360	240	180	120	90	72	60	45	36	30	22	18
9IDG*~180FWH	9WHD□-030	kgfcm	38.1	55.2	71.0	99.9	126.2	144.6	168.3	183.7	173.5	163.3	132.7	-
		N.m	3.74	5.41	6.96	9.79	12.37	14.17	16.49	18.00	17.00	16.00	13.00	-
	9WHD□-040	kgfcm	-	-	-	-	-	-	-	-	267.4	299.8	295.0	270.0
		N.m	-	-	-	-	-	-	-	-	26.20	29.38	28.91	26.46

Motor Model	Gearbox Model	감속비 r/min	15	20	25	30	40	50	60	80	100	120	160	200	225	240
9IDG*~180FHC	9HC□-◇	kgfcm N.m	120.0 11.76	160.0 15.68	200.0 19.60	240.0 23.52	320.0 31.36	399.9 39.19	479.9 47.03	639.9 62.71	799.9 78.39	959.9 94.07	1279.8 125.42	1599.8 156.78	1799.8 176.38	1800.0 176.40

50Hz

Motor Model	Gearbox Model	감속비	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
		r/min	500	417	300	250	200	167	150	120	100	83	75	60	50	42	37.5	30	25	20	17	15	12.5	10	8	7.5
9IDG*~ 180FH	9HBK□BH	kgfcm	32.8	39.3	54.6	65.5	81.9	98.3	109.2	123.1	147.7	177.2	196.9	222.5	267.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
	9HFK□BH	N.m	3.21	3.85	5.35	6.42	8.03	9.63	10.71	12.06	14.47	17.37	19.30	21.81	26.17	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40

Motor Model	Gearbox Model	감속비 r/min	5	7.5	10	15	20	25	30	40	50	60	80	100
			300	240	180	120	90	72	60	45	36	30	22	18
9IDG*~180FWH	9WHD□-030	kgfcm	46.9	68.0	87.4	123.0	155.4	178.0	204.1	183.7	173.5	163.3	132.7	-
		N.m	4.60	6.66	8.56	12.05	15.23	17.45	20.00	18.00	17.00	16.00	13.00	-
	9WHD□-040	kgfcm	-	-	-	-	-	-	-	-	329.1	330.0	295.0	270.0
		N.m	-	-	-	-	-	-	-	-	32.25	32.34	28.91	26.46

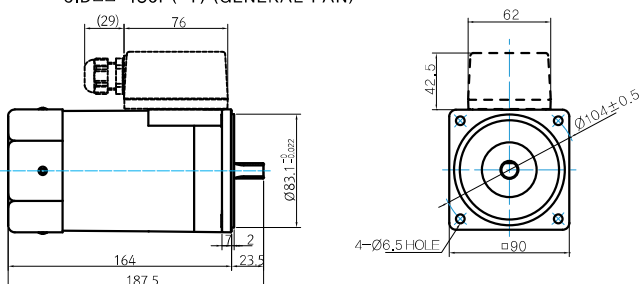
Motor Model	Gearbox Model	감속비 r/min	15	20	25	30	40	50	60	80	100	120	160	200	225	240
9IDG*~180FHC	9HC□-◇	kgfcm N.m	147.7 14.47	196.9 19.30	246.1 24.12	295.3 28.94	393.8 38.59	492.2 48.24	590.7 57.89	787.6 77.18	984.5 96.48	1181.4 115.78	1575.2 154.37	1800.0 176.40	1800.0 176.40	1800.0 176.40

- 모터 모델명 □ 안에는 전압코드가 들어갑니다.
- 감속기 모델명 □ 안에는 감속비가 들어갑니다.
- 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력축은 모터의 출력축과 같은 방향으로 회전합니다.
흰색 바탕 범위의 감속비에서는 감속기 출력축은 모터 출력축의 회전방향과 반대방향으로 회전합니다.
- 회전속도(r/min)는 모터의 동기회전속도(50Hz:1500r/min, 60Hz:1800r/min)를 감속비로 나누어 계산합니다. 실제 회전속도는 부하의 크기에 따라 표시보다 2~20% 정도 느립니다.

Dimensions

MOTOR ONLY

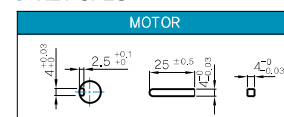
- MOTOR MODEL:
9IDD□-180F(-T) (GENERAL FAN)



MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	37 30 ^{+0.2} _{-0.1} 15 ^{+0.03} _{-0.02} Ø17 ^{+0.03} _{-0.02}
9IDD□-180F	
KEY TYPE	37 25 ^{+0.03} _{-0.02} Ø12 ^{+0.03} _{-0.02}
9IDK□-180F	

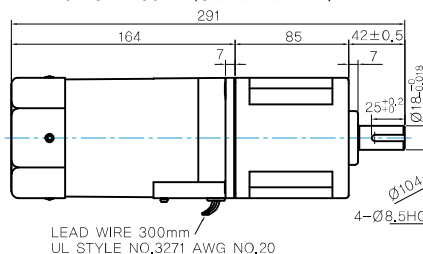
KEY SPEC



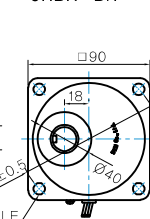
GEARED MOTOR

H TYPE GEARBOX

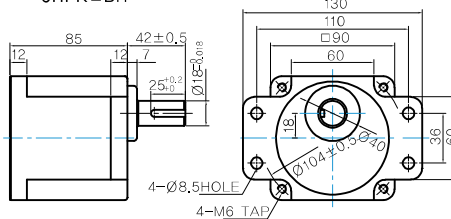
- MOTOR MODEL:
9IDG□-180FH (GENERAL FAN)



- GEARBOX MODEL:
9HBK□BH



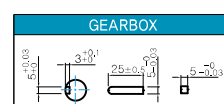
- GEARBOX MODEL:
9HFK□BH



GEARBOX OUTPUT SHAFT

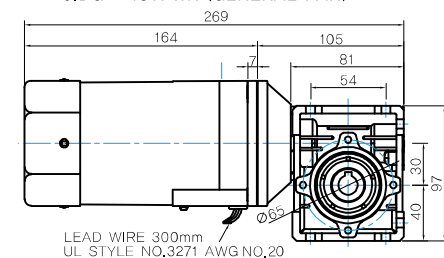
MODEL	SPEC
KEY TYPE	42 30 ^{+0.2} _{-0.1} 15 ^{+0.03} _{-0.02} Ø17 ^{+0.03} _{-0.02}
9HBK□BH	
9HFK□BH	

KEY SPEC

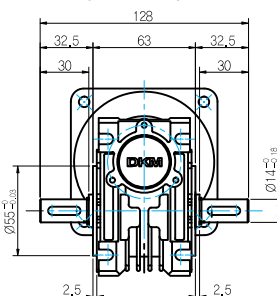


WH TYPE GEARBOX

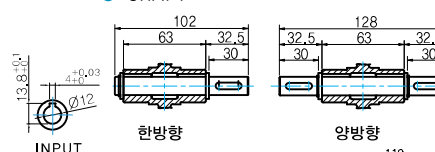
- MOTOR MODEL:
9IDG□-180FWH (GENERAL FAN)



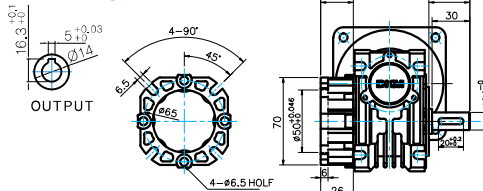
- GEARBOX MODEL:
9WHD□-030



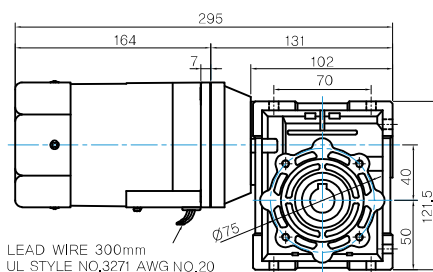
SHAFT



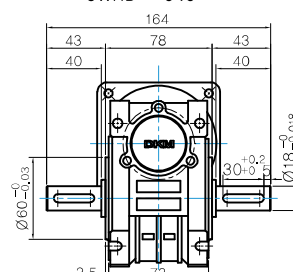
FLANGE



- MOTOR MODEL:
9IDG□-180FWH (GENERAL FAN)



- GEARBOX MODEL:
9WHD□-040

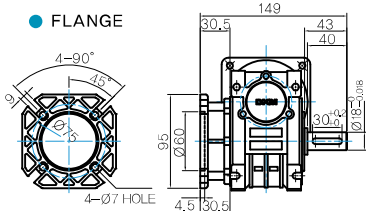


KEY SPEC

GEARBOX
5 ^{+0.03} _{-0.02} 3 ^{+0.1} _{-0.03} 25 ^{+0.2} _{-0.1} 5 ^{+0.03} _{-0.02} 25 ^{+0.2} _{-0.1}

*출력 FLANGE와 SHAFT는 별매입니다.

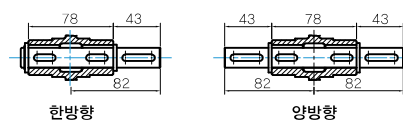
FLANGE



KEY SPEC

GEARBOX
6 ^{+0.03} _{-0.02} 3 ^{+0.1} _{-0.03} 30 ^{+0.2} _{-0.1} 6 ^{+0.03} _{-0.02} 30 ^{+0.2} _{-0.1}

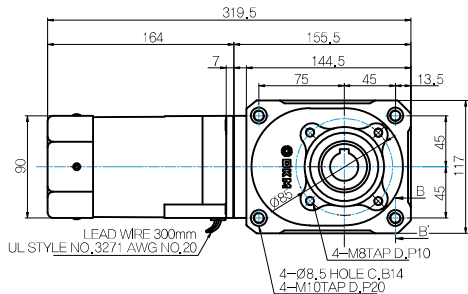
SHAFT



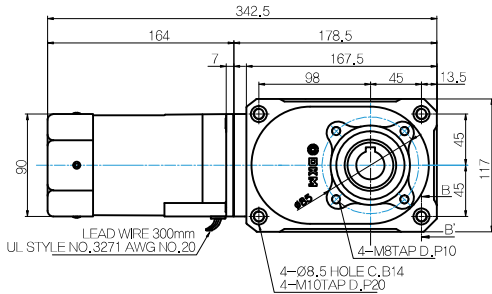
Induction Motor 180W(□ 90mm)

HC TYPE GEARBOX

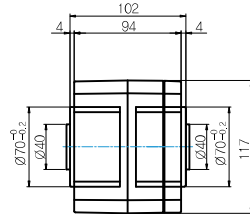
- MOTOR MODEL :
9IDD□-180FHC (GENERAL FAN)



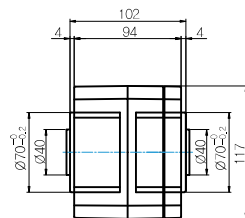
- MOTOR MODEL :
9IDD□-180FHC (GENERAL FAN)



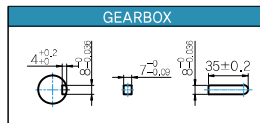
- GEARBOX MODEL:
9HC(15 ~ 60)□



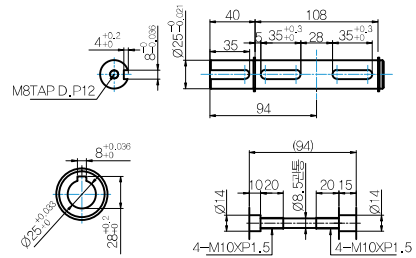
- GEARBOX MODEL :
9HC(80 ~ 240)□



KEY SPEC



- SHAFT



OUTPUT

SECTION B-B'

WEIGHT

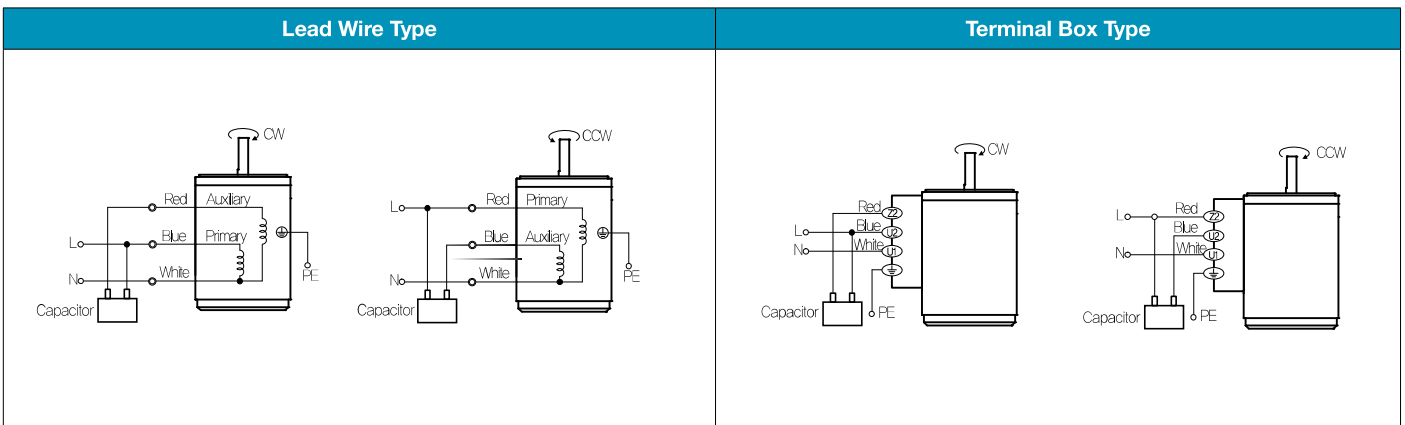
PART	WEIGHT(kg)
MOTOR	3.05
9HB(F)K3BH - 9HB(F)K10BH	1.62
9HB(F)K12.5BH - 9HB(F)K20BH	1.68
9HB(F)K25BH - 9HB(F)K60BH	1.73
9HB(F)K75BH - 9HB(F)K200BH	1.78
9WHD□-030	1.20
9WHD□-040	2.10
9HC15-◇	4.05
9HC20-◇ - 9HC60-◇	4.10
9HC80-◇ - 9HC240-◇	4.75
9XD10□○	0.60

*출력 FLANGE와 SHAFT는 별매입니다.

Motor Images



결선도



- 회전방향은 모터 축 측에서 본 방향을 나타냅니다.
- CW는 시계방향, CCW는 반시계방향입니다.
- 단상 모터의 회전방향 전환은 모터 정지 후에 실시하여 주십시오. 모터 회전 중에 회전방향을 전환하면 방향이 전환되지 않거나 시간이 지체되어 전환되는 경우가 있습니다.