

## Induction Motor 200W(□ 90mm)

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### Motor 사양

Model		Output	Voltage	Frequency	Poles	Duty	Starting Torque		Rated Load			Capacitor	
9IDG*-200F□(-T): Gear Type Shaft	9IDD*-200F(-T): D-Cut Type Shaft						kgfcm	N.m	Speed	Current	Torque		
Lead Wire Type	Terminal Box Type	W	V	Hz				r/min	A	kgfcm	N.m	μF / VAC	
9IDG3(G)-200F□	9IDG3(G)-200F□-T	200	3φ 220	50	4	Cont.	36.10	3.610	1300	1.27	14.98	1.498	-
				60			30.10	3.010	1550	1.17	12.57	1.257	
				50	4	Cont.	39.70	3.970	1300	1.33	14.98	1.498	
				60			32.60	3.260	1550	1.21	12.57	1.257	
9IDG4(K)-200F□	9IDG4(K)-200F□-T	200	3φ 380	50	4	Cont.	39.70	3.970	1300	0.74	14.98	1.498	-
				60			31.10	3.110	1550	0.67	12.57	1.257	
				50	4	Cont.	41.20	4.120	1300	0.81	14.98	1.498	
				60			35.10	3.510	1550	0.70	12.57	1.257	
9IDG5(L)-200F□	9IDG5(L)-200F□-T	200	3φ 415	50	4	Cont.	38.40	3.840	1300	0.70	14.98	1.498	-
				60			31.10	3.110	1550	0.62	12.57	1.257	
				50	4	Cont.	42.00	4.200	1300	0.76	14.98	1.498	
				60			34.60	3.460	1550	0.66	12.57	1.257	

- 1) 모터 모델명 \* 자리에는 전압코드가, □ 안에는 부착되는 감속기의 모델 타입명이 들어갑니다. 2) 전압코드 G, K, L은 TP(Thermal Protector) 부착 사양입니다.
- 3) Gear Type Shaft는 감속기 부착용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용시의 출력속도입니다.
- 4) 상상 380V~440V 모터에는 인버터 사용을 할 수 없습니다. 인버터 사용시 권선의 절연이 열화되어 모터가 파손될 수 있습니다.

### 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*-200FH	9HBK□BH 9HFK□BH	kgfcm N.m	30.5 2.99	36.6 3.59	50.9 4.99	61.1 5.99	76.3 7.48	91.6 8.98	101.8 9.98	114.7 11.24	137.6 13.49	165.1 16.18	183.5 17.98	207.4 20.32	248.8 24.39	298.6 29.26	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	300.0 29.40
Motor Model	Gearbox Model	감속비	5	7.5	10	15	20	25	30	40	50	60	80	100												
9IDG*-200FWH	9WHD□-030	kgfcm	43.7	63.3	81.4	114.6	144.8	165.9	193.0	183.7	173.5	163.3	132.7	-												
		N.m	4.29	6.21	7.98	11.23	14.19	16.26	18.92	18.00	17.00	16.00	13.00	-												
9IDG*-200FWH	9WHD□-040	kgfcm	-	-	-	-	-	-	-	-	306.7	330.0	295.0	270.0												
		N.m	-	-	-	-	-	-	-	-	30.05	32.34	28.91	26.46												
Motor Model	Gearbox Model	감속비	15	20	25	30	40	50	60	80	100	120	160	200	225	240										
9IDG*-200FHC	9HC□□	kgfcm N.m	138 13.5	183 17.9	229 22.4	275 27	367 36	459 45	550 53.9	734 71.9	917 89.9	1101 108	1468 144	1800 176	1800 176	1800 176										

#### 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
9IDG*-200FH	9HBK□BH 9HFK□BH	kgfcm N.m	36.4 3.57	43.7 4.28	60.7 5.95	72.8 7.14	91.0 8.92	109.2 10.71	121.4 11.89	136.7 13.40	164.1 16.08	196.9 19.30	218.8 21.44	247.2 24.23	296.7 29.08	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	300.0 29.40	300.0 29.40
Motor Model	Gearbox Model	감속비	5	7.5	10	15	20	25	30	40	50	60	80	100												
9IDG*-200FWH	9WHD□-030	kgfcm	52.1	75.5	97.1	136.7	172.6	183.7	204.1	183.7	173.5	163.3	132.7	-												
		N.m	5.11	7.40	9.52	13.39	16.92	18.00	20.00	18.00	17.00	16.00	13.00	-												
9IDG*-200FWH	9WHD□-040	kgfcm	-	-	-	-	-	-	-	-	350.0	330.0	295.0	270.0												
		N.m	-	-	-	-	-	-	-	-	34.30	32.34	28.91	26.46												
Motor Model	Gearbox Model	감속비	15	20	25	30	40	50	60	80	100	120	160	200	225	240										
9IDG*-200FHC	9HC□□	kgfcm N.m	164 16.1	219 21.5	273 26.8	328 32.1	438 42.9	547 53.6	656 64.3	875 85.8	1094 107	1313 129	1750 172	1800 176	1800 176	1800 176										

- 1) 모터 모델명 \* 자리에는 전압코드가 들어갑니다. 2) 감속기 모델명 □ 안에는 감속비가 들어갑니다.
- 3) 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력속도는 모터의 출력속도와 같은 방향으로 회전합니다. 흰색 바탕 범위의 감속비에서는 감속기 출력속도는 모터 출력속도의 회전방향과 반대방향으로 회전합니다.
- 4) 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.

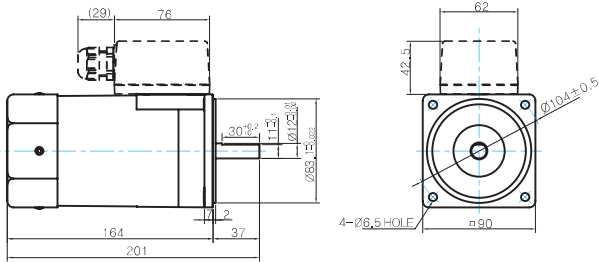
# B AC Motors

## Induction Motor 200W (□ 90mm)

### Dimensions

#### MOTOR ONLY

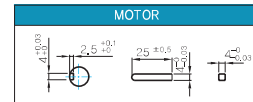
- MOTOR MODEL: 9IDD□-200F(-) (GENERAL FAN)



#### MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	37 30 <sup>+0.03</sup> 1.5 <sup>+0.03</sup> 1.7 <sup>+0.03</sup>
9IDD□-200F	
KEY TYPE	37 2.5 <sup>+0.03</sup> 1.7 <sup>+0.03</sup>
9IDK□-200F	

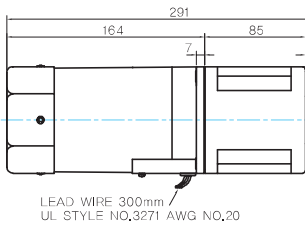
#### KEY SPEC



#### GEARED MOTOR

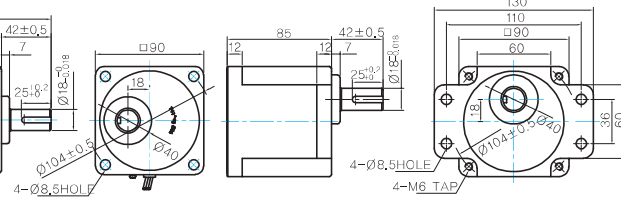
##### H TYPE GEARBOX

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



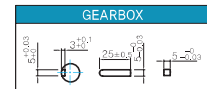
- GEARBOX MODEL: 9HBK□BH

- GEARBOX MODEL: 9HFK□BH



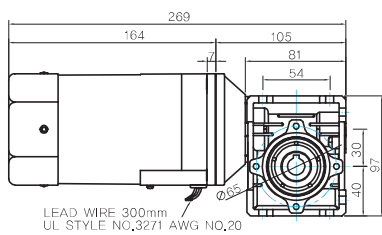
#### GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	42 25 <sup>+0.03</sup> 1.5 <sup>+0.03</sup> 1.7 <sup>+0.03</sup>
9HBK□BH	
9HFK□BH	



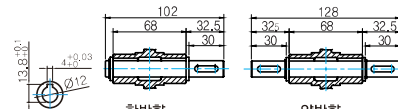
##### WH TYPE GEARBOX

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

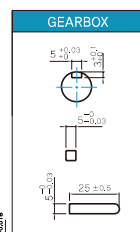


- GEARBOX MODEL: 9WHD□-030

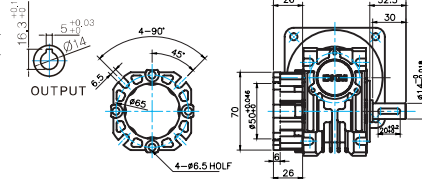
#### SHAFT



#### KEY SPEC

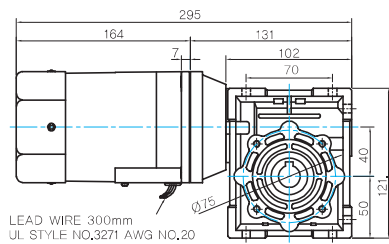


#### FLANGE

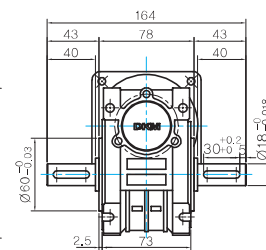


\* 출력 FLANGE와 SHAFT는 별매입니다.

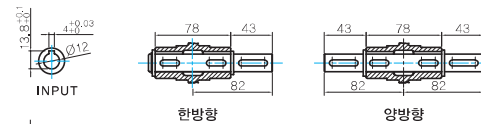
- MOTOR MODEL: 9IDG□-200FWH (GENERAL FAN)



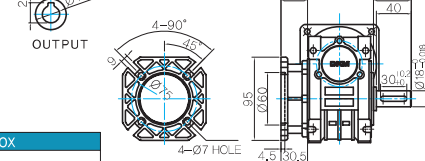
- GEARBOX MODEL: 9WHD□-040



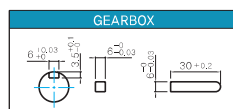
#### SHAFT



#### FLANGE

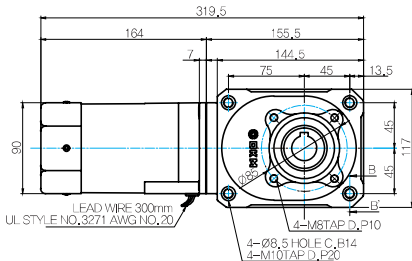


#### KEY SPEC

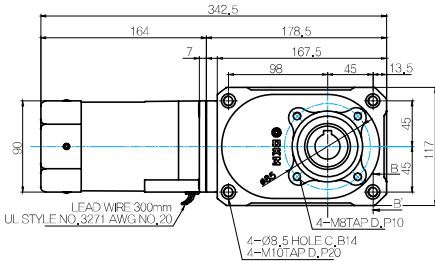


### HC TYPE GEARBOX

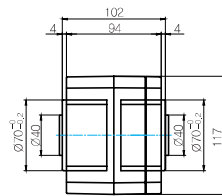
- MOTOR MODEL : 9IDD□-200FHC (GENERAL FAN)



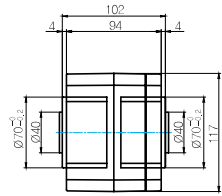
- MOTOR MODEL : 9IDD□-200FHC (GENERAL FAN)



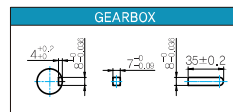
- GEARBOX MODEL : 9HC(15 ~ 60)□



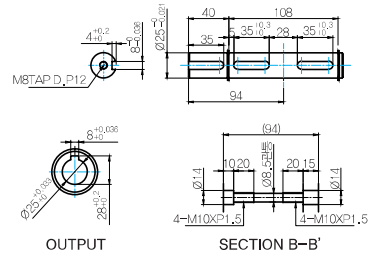
- GEARBOX MODEL : 9HC(80 ~ 240)□



- KEY SPEC



- SHAFT



### WEIGHT

PART	WEIGHT(Kg)	
MOTOR	3,05	
GEAR BOX	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	1,2
	9WHD□-040	2,1
	9HC15□	4,05
	9HC20□~9HC60□	4,1
	9HC80□~9HC240□	4,75
9XD10□	0,6	

\* 출력 FLANGE와 SHAFT는 별매입니다.

### Motor Images



### 결선도

Lead Wire Type	Terminal Box Type
<p>· 반시계(CCW)방향: R, S, T 중 2선을 변경하면 반시계 방향으로 회전합니다.</p>	<p>· 반시계(CCW)방향: R, S, T 중 2선을 변경하면 반시계 방향으로 회전합니다.</p>

- 회전방향은 모터 축 측에서 본 방향을 나타냅니다.
- CW는 시계방향, CCW는 반시계방향입니다.