

Brake Motor 400W (□ 104mm)

400W

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Motor 사양

Model	Output	Voltage	Frequency	Poles	Duty	Starting Torque	Rated Load				Capacitor
10BDG6-400F□-T: Gear Type Shaft 10BDD6-400F-T: D-Cut Type Shaft 10BDK6-400F-T: Key Type Shaft	W	V	Hz			kgfcm N.m	Speed r/min	Current A	Torque kgfcm N.m		μF / VAC
Terminal Box Type											
10BD□6-400F□-T	400	3Ø 220 3Ø 380	60	4	30min.	47,00 4,793 47,00 4,793	1600 1600	2,10 1,21	24.35 2,435 24.35 2,435		-

1) 모터 모델명 □ 자리에는 모터 출력축 타입명이 들어갑니다.

(G: Gear Type / D: D-Cut Type / K: Key Type) Gear Type Shaft는 감속기 부착용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용 시의 출력축입니다.

2) 모터 출력축 타입이 Gear Type일 경우, □ 안에는 부착되는 감속기의 모델 타입명이 들어갑니다.

3) 상상 380V~440V 모터에서는 인버터를 사용할 수 없습니다. 인버터 사용 시 권선의 절연이 열화되어 모터가 파손될 수 있습니다.

감속기 부착 시 최대허용토크

60Hz

Motor Model	Gearbox Model	감속비	3	5	9	10	15	20	25	30	40	50	60	90	100	120	150	180
10BDG6-400FU-T	10UBK□BH	r/min	600	360	200	180	120	90	72	60	45	36	30	20	18	15	12	10
		kgfcm	60.0	100.0	180.0	185.0	275.0	300.0	300.0	300.0	350.0	350.0	400.0	400.0	400.0	400.0	400.0	400.0
		N.m	5.88	9.80	17.64	18.13	26.95	29.40	29.40	29.40	34.30	34.30	39.20	39.20	39.20	39.20	39.20	39.20

Motor Model	Gearbox Model	감속비	5	7.5	10	15	20	25	30	40
10BDK6-400F-T	10WHD□-040	r/min	360	240	180	120	90	72	60	45
		kgfcm	85.0	125.0	160.0	230.0	295.0	355.0	395.0	375.0
		N.m	8.33	12.25	15.68	22.54	28.91	34.79	38.71	36.75

Motor Model	Gearbox Model	감속비	15	20	25	30	40	50	60	80	100	120	160	200	225	240
10IDG6-400FHC-T	10HC□-◇	r/min	120	90	72	60	45	36	30	22.5	18	15	11.3	9	8	7.5
		kgfcm	266.6	355.5	444.4	533.3	711.0	888.8	1066.5	1422.0	1777.6	2133.1	2844.1	3000.0	3000.0	3000.0
		N.m	26.13	34.84	43.55	52.26	69.68	87.10	104.52	139.36	174.20	209.04	278.72	294.00	294.00	294.00

1) 감속기 모델명 □ 안에는 감속비, ◇ 안에는 출력축 재질이 들어갑니다.

2) 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력축은 모터의 출력축과 같은 방향으로 회전합니다.

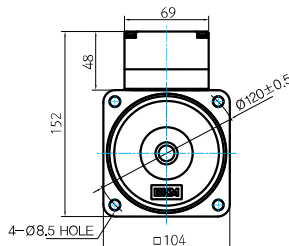
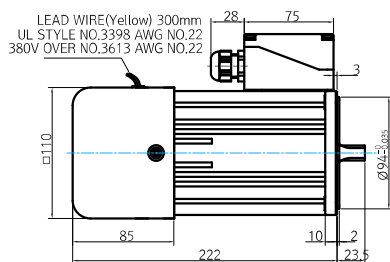
흰색 바탕 범위의 감속비에서는 감속기 출력축은 모터 출력축의 회전방향과 반대방향으로 회전합니다.

3) 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:
10BD□□-400F-T



MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	37 30 25.4 13.5 Ø14.5 ^{+0.018} _{-0.018}
KEY TYPE	37 30 25.4 13.5 Ø14.5 ^{+0.018} _{-0.018}
10BDK□□-400F	

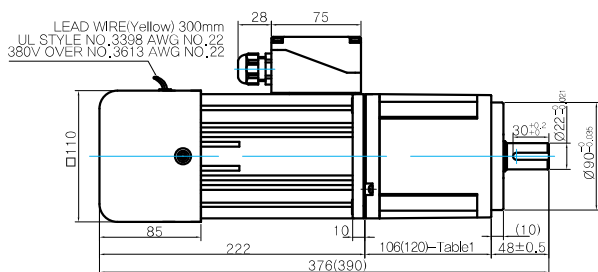
KEY SPEC

MOTOR
5.98 ^{+0.03} _{-0.03} 3.81 25±0.2 ^{+0.03} _{-0.03} 5.3 ^{+0.03} _{-0.03}

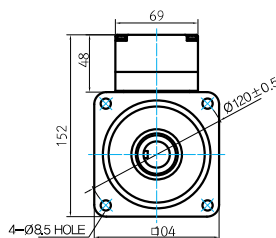
GEARED MOTOR

U TYPE GEARBOX

- MOTOR MODEL:
10BDG□-400FU-T



- GEARBOX MODEL:
10UBK□BH



- GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	
10UBK□BH	

- KEY SPEC

GEARBOX

Technical drawing of a gearbox component showing three views: front, side, and top. Dimensions are given in millimeters with tolerances.

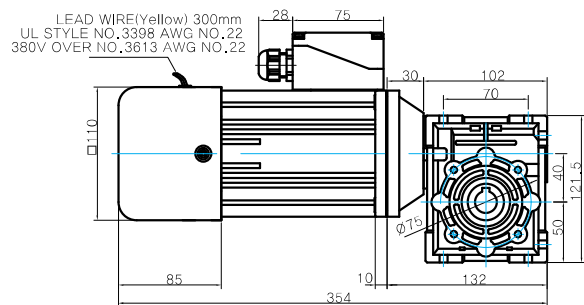
- Front view: Outer diameter $6^{+0.03}_{-0}$, inner diameter $3.5^{+0.1}_{-0}$.
- Side view: Length 30 ± 0.2 , thickness $6^{+0.03}_{-0}$.
- Top view: Width $6^{+0.03}_{-0}$.

- 106(120)-Table1

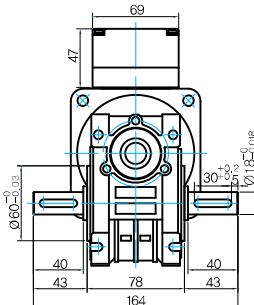
SIZE(mm)	GEAR RATIO
106	10UBK3BH – 10UBK60BH
120	10UBK90BH – 10UBK180BH

WH TYPE GEARBOX

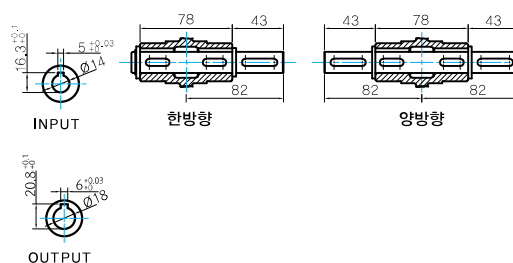
- MOTOR MODEL:
10BDK□-250F-T



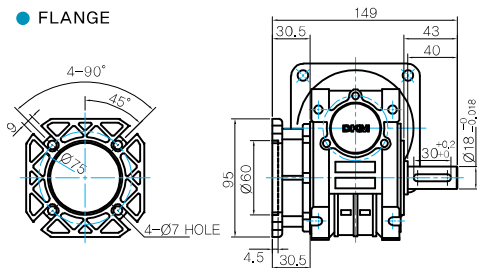
- GEARBOX MODEL:
10WHD□-040



- SHAFT(Unidirectional, Bi-directional)



- FLANGE



- KEY SPEC

GEARBOX

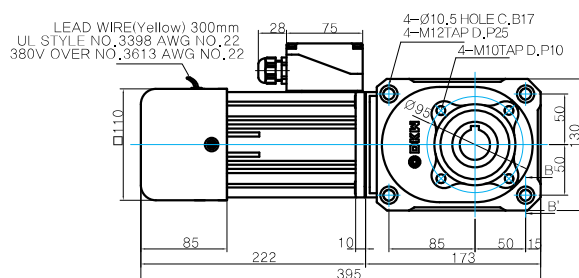
Technical drawing of a gearbox component showing four views: front, top, side, and isometric. Dimensions are given in millimeters with tolerances.

- Front view: Overall width $6^{+0.03}_{+0}$, hole diameter $3^{+0.1}_{+0}$.
- Top view: Overall width $6^{-0}_{-0.03}$.
- Side view: Overall height $6^{-0.03}_{-0}$.
- Isometric view: Overall length 30 ± 0.2 .

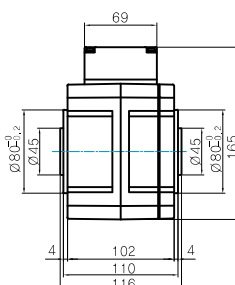
- KEY SPEC

HC TYPE GEARBOX

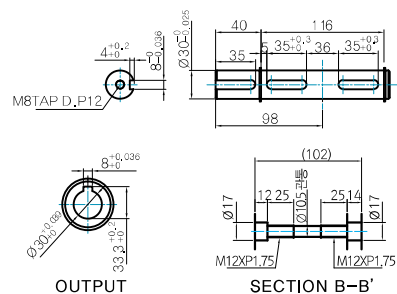
- GEARBOX MODEL :
10BDG6-400FHC-T (GENERAL FAN)



- GEARBOX MODEL :
10HC(15 ~ 60) □

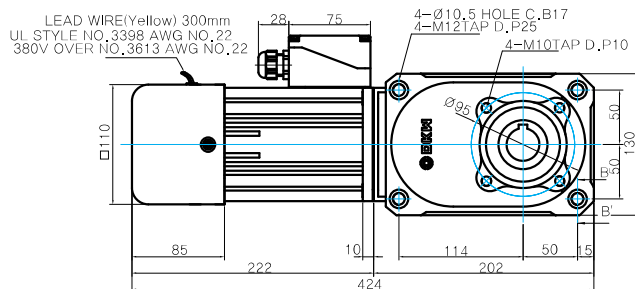


- SHAFT

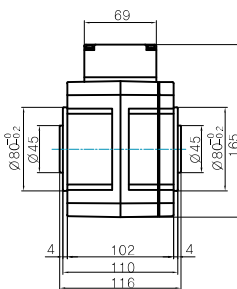


Brake Motor 400W (□ 104mm)

GEARBOX MODEL : 10BDG6-400FHC-T (GENERAL FAN)



GEARBOX MODEL : 10HC(80~240)□

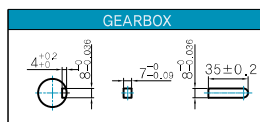


WEIGHT

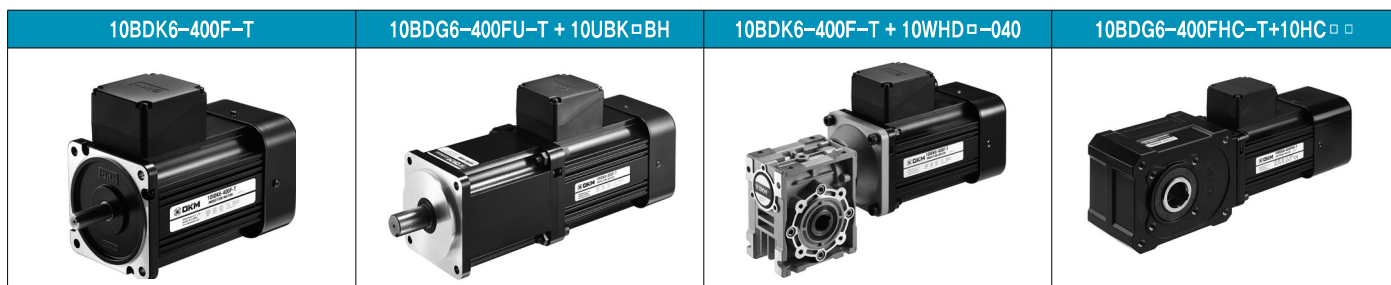
PART	WEIGHT(kg)
MOTOR	7.10
10UBK3BH - 10UBK9BH	2.00
10UBK10BH - 10UBK15BH	2.15
10UBK20BH - 10UBK60BH	2.30
10UBK90BH - 10UBK180BH	2.50
10WHD□-040	2.20
10HC15-◇	5.50
10HC20-◇ - 10HC60-◇	5.60
10HC80-◇ - 10HC240-◇	6.40

*출력 FLANGE와 SHAFT는 별매입니다.

KEY SPEC



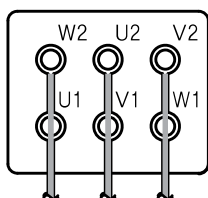
Motor Images



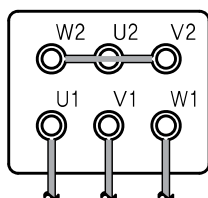
Connection Diagrams

단자박스 내부 쇼트바 결선

단상 220~240V
삼상 220V, 230V, 440V

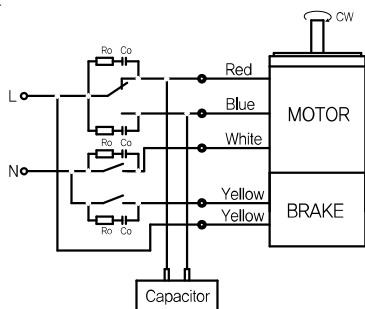


삼상 380V, 400V

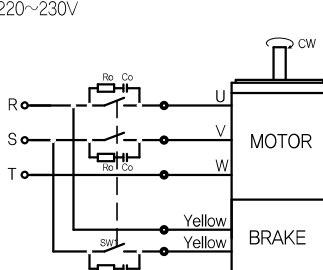


브레이크 모터 결선도

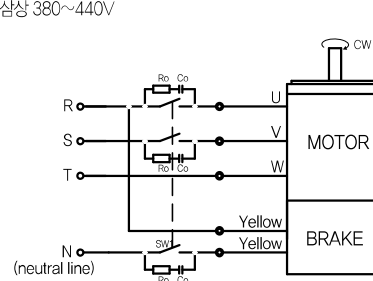
단상



삼상 220~230V



삼상 380~440V



- 회전방향은 모터 축 측에서 본 방향을 나타냅니다.
- CW는 시계방향, CCW는 반시계방향입니다.
- 브레이크 전원은 220V 전용입니다.