

200W Brake Motor 200W(□90mm)

Motor Specification

Model 9BDG*~200F□: Gear Type Shaft 9BDD*~200F: D-Cut Type Shaft 9BDK*~200F: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load				Capacitor μF / VAC
						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
9BDGG~200F□	200	3∅220	50	4	Cont.	38.00	3,800	1300	1.40	15.00	1,500	-
			60			30.00	3,000	1550	1.20	13.00	1,300	
9BDGK~200F□	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	
		3∅400	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 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.

Max. Permissible Torque at Output Shaft of Gearbox

60Hz

Motor Model	Gearbox Model	Gear Ratio r/min	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200
			600	500	300	200	144	120	100	90	72	60	50	36	30	24	20	18	15	12	10	9
9BDG□ ~200FH	9HBK□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
	9HFK□BH	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	Gearbox Model	Gear Ratio r/min	7.5	10	15	20	25	30	40	50	60	80	100
			240	180	120	90	72	60	45	36	30	22.5	18
9BDG□ ~200FWH	9WHD□-030	kgfcm	81.9	105.3	148.2	183.7	214.3	204.1	183.7	173.5	163.3	132.7	-
		N.m	8.02	10.32	14.52	18.00	21.00	20.00	18.00	17.00	16.00	13.00	-
	9WHD□-040	kgfcm	-	-	-	-	-	-	-	315.0	330.0	295.0	270.0
		N.m	-	-	-	-	-	-	-	30.88	32.35	28.92	26.47

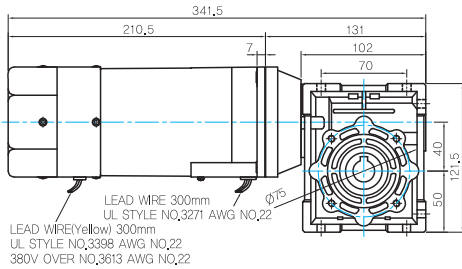
50Hz

Motor Model	Gearbox Model	Gear Ratio r/min	3	3.6	6	9	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	200
			500	417	250	167	120	100	83	75	60	50	42	30	25	20	17	15	13	10	8	7.5
9BDG□ ~200FH	9HBK□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
	9HFK□BH	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

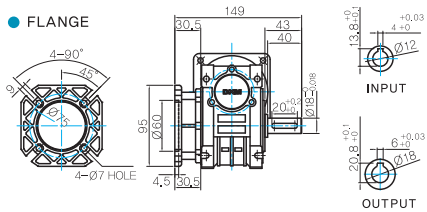
Motor Model	Gearbox Model	Gear Ratio r/min	7.5	10	15	20	25	30	40	50	60	80	100
			200	150	100	75	60	50	37.5	30	25	18.75	15
9BDG□ ~200FWH	9WHD□-030	kgfcm	94.5	121.5	171.0	183.7	214.3	204.1	183.7	173.5	163.3	132.7	-
		N.m	9.26	11.91	16.76	18.00	21.00	20.00	18.00	17.00	16.00	13.00	-
	9WHD□-040	kgfcm	-	-	-	-	-	-	-	350.0	330.0	295.0	270.0
		N.m	-	-	-	-	-	-	-	34.31	32.35	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.

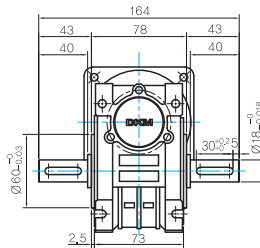
● MOTOR MODEL:
9BDG□-200FWH (GENERAL FAN)



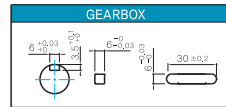
● FLANGE



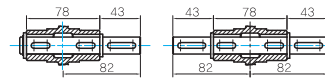
● GEARBOX MODEL:
9WHD□-040



● KEY SPEC



● SHAFT(Unidirectional, Bi-directional)

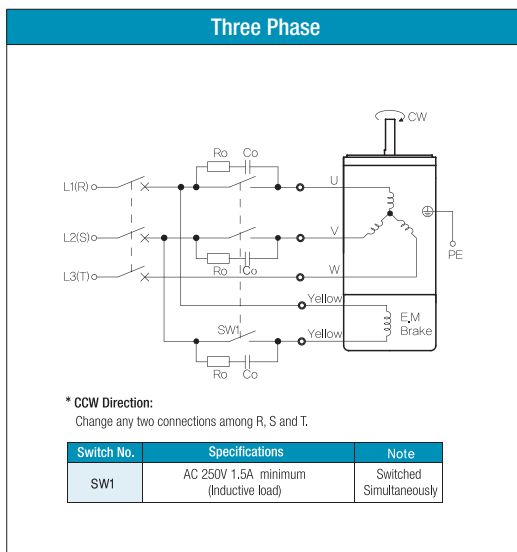


● WEIGHT

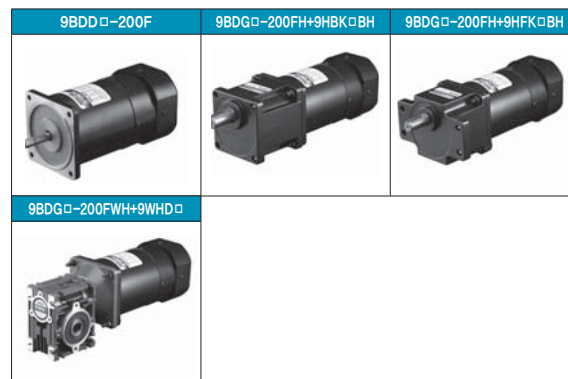
	PART	WEIGHT(Kg)
GEAR BOX	MOTOR	3,5
	9HB(F)K3BH ~ 9HB(F)K9BH	1,45
	9HB(F)K12.5BH ~ 9HB(F)K18BH	1,5
	9HB(F)K20BH ~ 9HB(F)K60BH	1,7
	9HB(F)K75BH ~ 9HB(F)K200BH	1,8
	9WHD□-030	1,13
	9WHD□-040	2,2
	9XD10□	0,5

* The output flange and shafts are sold separately.

● Connection Diagrams



● Motor Images



- 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.
- 3) SW1 operates both motor and electromagnetic brake action.
- 4) The electromagnetic brake will be released and the motor will rotate when SW1 is switched simultaneously to ON. When SW1 is switched simultaneously to OFF, the motor stops immediately with the electromagnetic brake and holds the load.
- 5) If you wish to release the brake while the motor is stopped, apply voltage between the two brake lead wires (yellow).
- 6) Ro and Co indicate CR circuit for surge suppression. [Ro=5~200Ω, Co=0.1~0.2μF, 200WV (400WV)]