

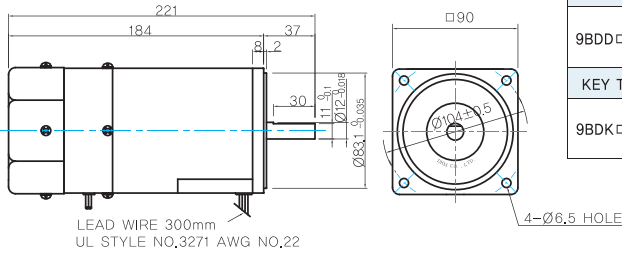
B AC Motors

E.M. Brake Motor 90W (□90mm)

Dimensions

MOTOR ONLY

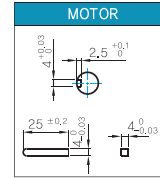
- MOTOR MODEL:
9BDD□-90F (GENERAL FAN)



MOTOR OUTPUT SHAFT

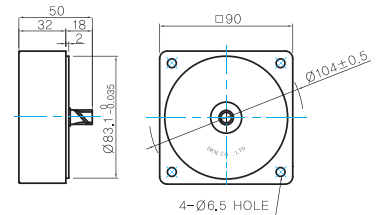
MODEL	SPEC
D-CUT TYPE	
9BDD□-90F	
KEY TYPE	
9BDK□-90F	

KEY SPEC



INTER-DECIMAL GEARHEAD

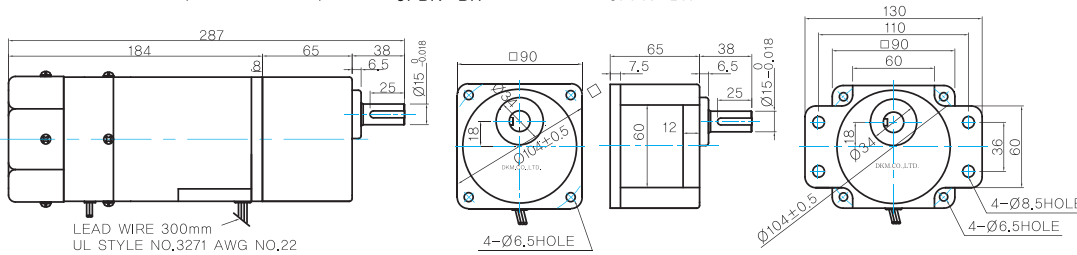
- MODEL:
9XD10M□



GEARED MOTOR

P TYPE GEARHEAD

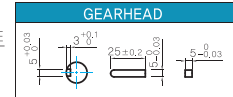
- MOTOR MODEL:
9BDG□-90FP (GENERAL FAN)
- GEARHEAD MODEL:
9PBK□BH
- GEARHEAD MODEL:
9PFK□BH



GEARHEAD OUTPUT SHAFT

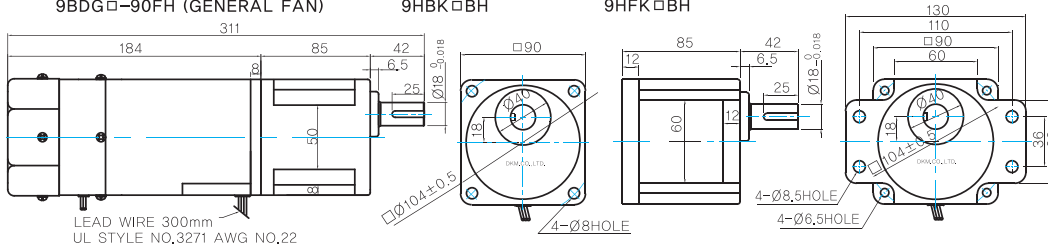
MODEL	SPEC
KEY TYPE	
9PBK□BH	
9PFK□BH	

KEY SPEC



H TYPE GEARHEAD

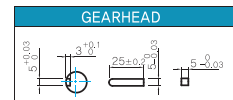
- MOTOR MODEL:
9BDG□-90FH (GENERAL FAN)
- GEARHEAD MODEL:
9HBK□BH
- GEARHEAD MODEL:
9HFK□BH



GEARHEAD OUTPUT SHAFT

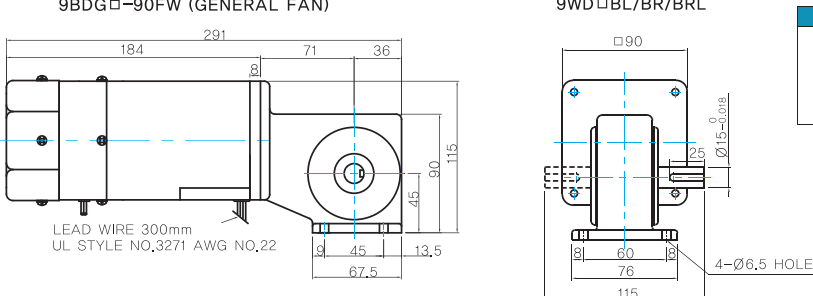
MODEL	SPEC
KEY TYPE	
9HBK□BH	
9HFK□BH	

KEY SPEC

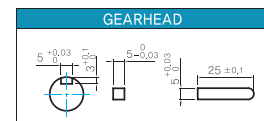


W TYPE GEARHEAD

- MOTOR MODEL:
9BDG□-90FW (GENERAL FAN)
- GEARHEAD MODEL:
9WD□BL/BR/BRL

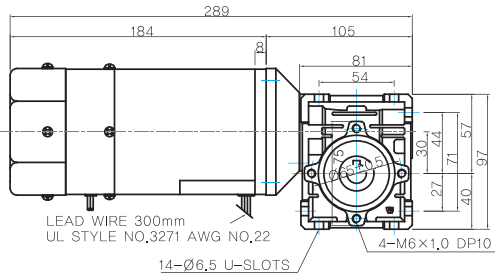


KEY SPEC

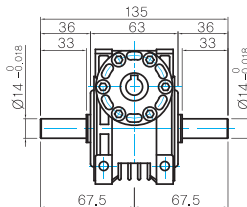


WH TYPE GEARHEAD

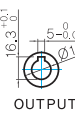
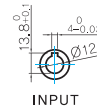
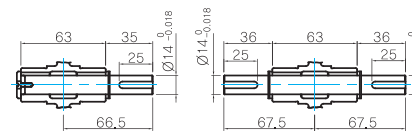
- MOTOR MODEL:
9BDG□-90FWH (GENERAL FAN)



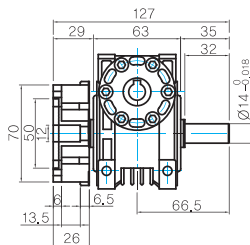
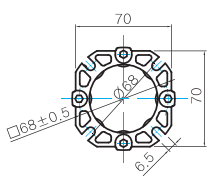
- GEARHEAD MODEL:
9WHD□



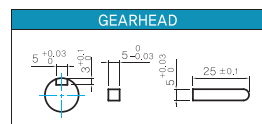
- SHAFT (Unidirectional, Bi-directional)



- FLANGE



- KEY SPEC



WEIGHT

	PART	WEIGHT(Kg)
GEAR HEAD	MOTOR	3.5
	9PB(F)K2BH ~ 9PB(F)K18BH	1.3
	9PB(F)K20BH ~ 9PB(F)K180BH	1.4
	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)K180BH	1.8
	9WD□BL/BR/BRL	1.0
	9WHD□	1.13
	9XD10M□	0.5

* The output flange and shafts are sold separately.

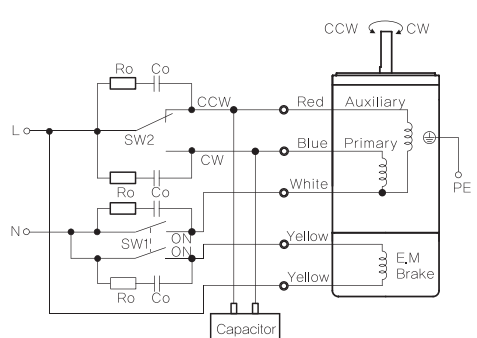
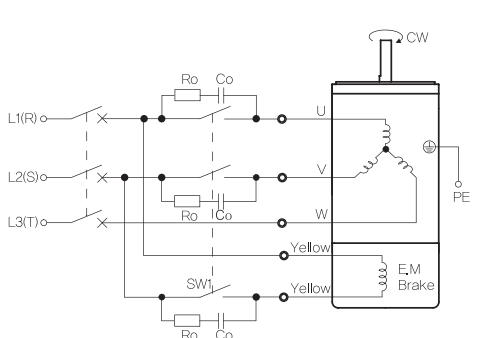
Motor Images



B AC Motors

E.M. Brake Motor 90W (□90mm)

Connection Diagrams

Single Phase	Three Phase																				
 <p>The diagram shows a single-phase AC input (L and N) connected to a motor. The motor has four main terminals: Red (Auxiliary), Blue (Primary), White (Primary), and Yellow (E.M. Brake). A capacitor is connected between the Yellow and White terminals. Two switches, SW1 and SW2, are used for control. SW1 is connected to the Yellow terminal and the White terminal. SW2 is connected to the Red terminal and the White terminal. Surge suppression components (Ro and Co) are connected in parallel with the switches. The motor shaft is shown with rotation directions CCW and CW.</p> <p>* Rotation Direction: To rotate the motor in a clockwise (CW) direction, turn SW2 to CW. To rotate the motor in a counterclockwise (CCW) direction, turn SW2 to CCW.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #0070C0; color: white;"> <th rowspan="2">Switch No.</th> <th colspan="2">Specifications</th> <th rowspan="2">Note</th> </tr> <tr style="background-color: #0070C0; color: white;"> <th>Single Phase 110V/115V Input</th> <th>Single Phase 220V/230V Input</th> </tr> </thead> <tbody> <tr> <td>SW1</td> <td>AC 125V 3A minimum (Inductive load)</td> <td>AC 250V 1.5A minimum (Inductive load)</td> <td>Switched Simultaneously</td> </tr> <tr> <td>SW2</td> <td></td> <td></td> <td>-</td> </tr> </tbody> </table>	Switch No.	Specifications		Note	Single Phase 110V/115V Input	Single Phase 220V/230V Input	SW1	AC 125V 3A minimum (Inductive load)	AC 250V 1.5A minimum (Inductive load)	Switched Simultaneously	SW2			-	 <p>The diagram shows a three-phase AC input (L1(R), L2(S), L3(T)) connected to a motor. The motor has four main terminals: U (Auxiliary), V (Primary), W (Primary), and Yellow (E.M. Brake). A capacitor is connected between the Yellow and W terminals. A switch SW1 is connected to the Yellow terminal and the W terminal. Surge suppression components (Ro and Co) are connected in parallel with the switch. The motor shaft is shown with a rotation direction CW.</p> <p>* CCW Direction: Change any two connections between R, S and T.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #0070C0; color: white;"> <th>Switch No.</th> <th>Specifications</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>SW1</td> <td>AC 250V 1.5A minimum (Inductive load)</td> <td>Switched Simultaneously</td> </tr> </tbody> </table>	Switch No.	Specifications	Note	SW1	AC 250V 1.5A minimum (Inductive load)	Switched Simultaneously
Switch No.		Specifications			Note																
	Single Phase 110V/115V Input	Single Phase 220V/230V Input																			
SW1	AC 125V 3A minimum (Inductive load)	AC 250V 1.5A minimum (Inductive load)	Switched Simultaneously																		
SW2			-																		
Switch No.	Specifications	Note																			
SW1	AC 250V 1.5A minimum (Inductive load)	Switched Simultaneously																			

- 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)]