
Specifications

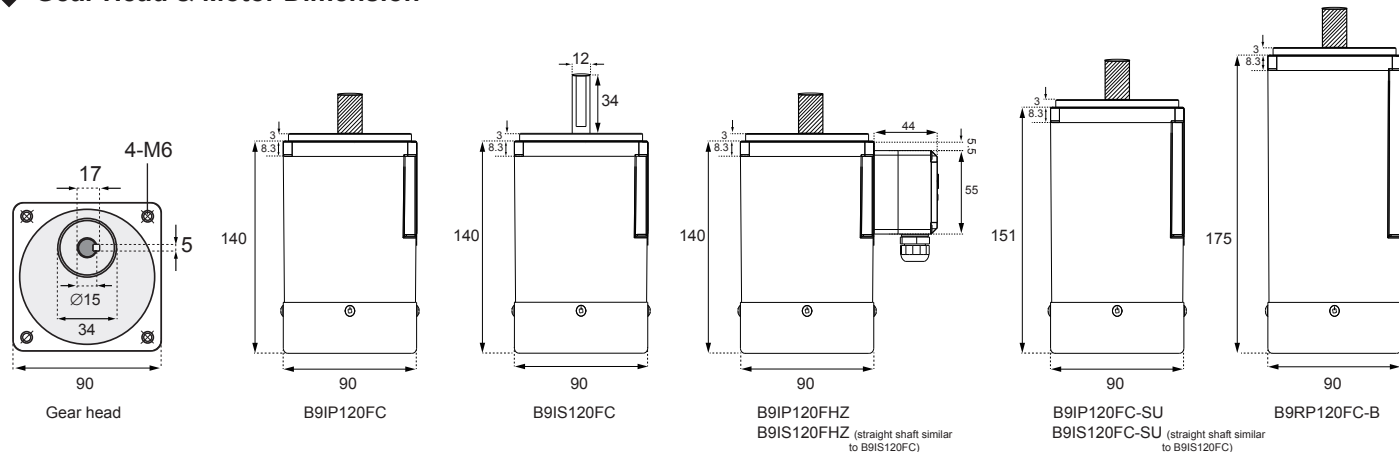
Model	B9IP120FC	B9IS120FC	B9IP120FC-SU	B9IS120FC-SU	B9RP120FC-B	B9IP120FHZ	B9IS120FHZ
Type	Induction 1Ø pinion shaft	Induction 1Ø straight shaft	Speed control motor 1Ø pinion shaft	Speed control motor 1Ø straight shaft	Brake motor 1Ø pinion shaft	Induction 3Ø pinion shaft	Induction 3Ø straight shaft
Strength	Applicable to single-phase motors for continuous operation		Motors which * can be coupled with speed controllers		Motors which can keep brake and load with built-in electromagnetic brake	Applicable to three-phase motors for continuous operation	
Rating	Continuous				Interactive	Continuous	
Voltage	230VAC, 50/60Hz					230/415VAC, 50/60Hz	
Current	1.02 / 0.97A					0.85 / 0.51A	
Capacitor	6μF/450V					NA	
RPM	1300 / 1600 (50 / 60 Hz)			90~1300/1600 (50/60 Hz)		1300 / 1600 (50 / 60 Hz)	
Start torque mN.m	720/600 (50/60Hz)					1195/1014 (50/60Hz)	
Rated torque mN.m	840			840 ~ 300 (1300/90)		840	924/750 (50/60Hz)
Insulation class	F						
Insulation resistance	100Ω or more when 500V megger is applied between the winding and the housing						
Dielectric strength	Sufficient to withstand 1500V at 50/60Hz applied between the windings and the case, for 1 min.						
Protection	IP 44						
Ambient	Temperature -10°C ~ 50°C (Non freezing)			Humidity <85% (Non condensation)			
Housing	Aluminium die casting						

*Although the motor speed range is 90~1300 r/min at 50Hz and 90~1600 r/min at 60Hz, operating at low speeds (below 400 r/min) can easily lead to overload due to poor cooling by the motor fan and significantly reduced torque. Therefore, it is recommended to maintain a sufficient power margin and avoid frequent operation in the low-speed range. The optimal operating speed range is 400~1300 r/min at 50Hz and 400~1600 r/min at 60Hz.

Permissible Torque at output shaft of Gear Head

Reduction Ration		3	5	7.5	10	12.5	15	18	25	30	36	50	60	75	100	150	180	200	
120W	50Hz	Max output speed r/min	433	260	173	130	104	87	72	52	43	36	26	22	17	13	9	7	
		Rated torque N.m	2.25	3.75	5.62	6.88	8.60	10.31	12.38	15.43	18.51	20	20	20	20	20	20	20	
	60Hz	Max output speed r/min	533	320	213	160	128	107	89	64	53	44	32	27	21	16	11	9	8
		Rated torque N.m	1.87	3.12	4.68	5.73	7.16	8.60	10.31	12.86	15.43	18.51	20	20	20	20	20	20	

The speed in the table is the value of average motor speed (50Hz: 1300r/min, 60Hz: 1600r/min) divided by the reduction ratio.

◆ Gear Head & Motor Dimension


All dimensions are in mm

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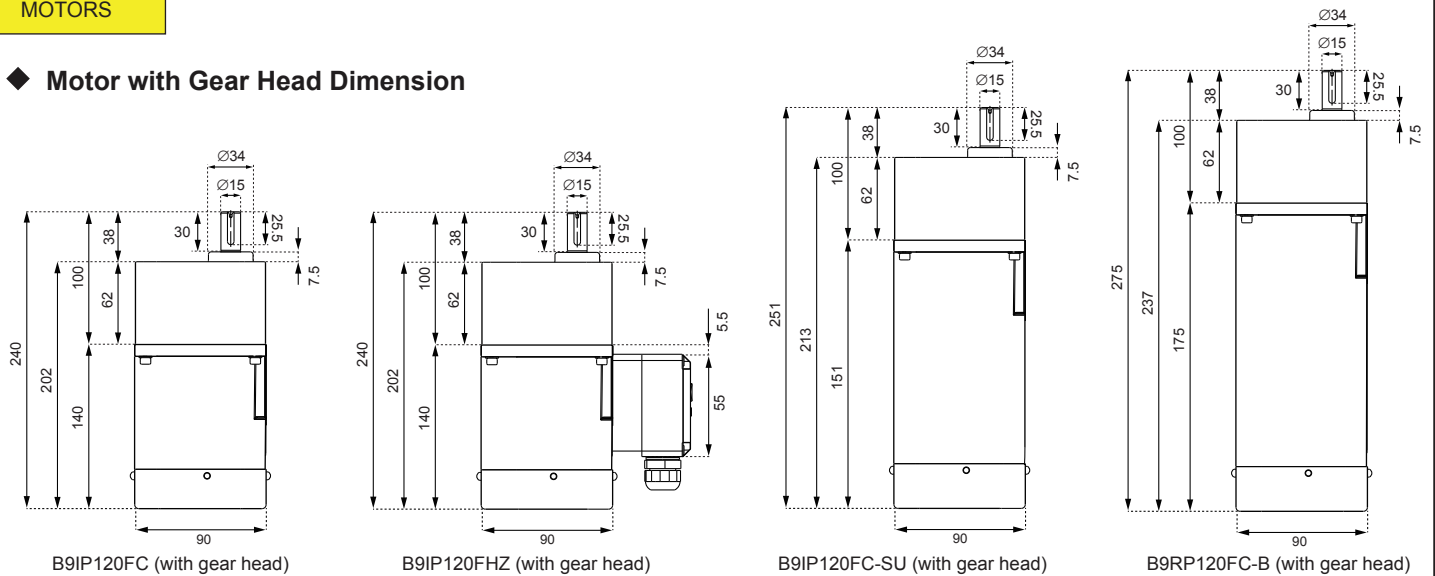
B9IP120FC Version 1.0
B9IS120FC Version 1.0

B9IP120FHZ Version 1.0
B9IS120FHZ Version 1.0

B9IP120FC-SU Version 1.0
B9IS120FC-SU Version 1.0

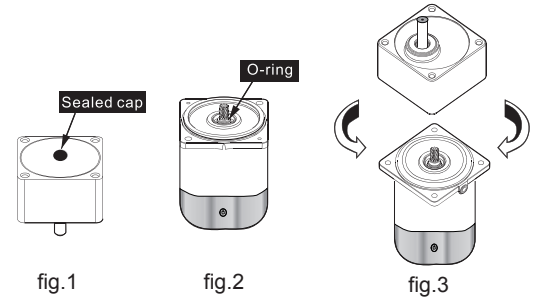
B9RP120FC-B Version 1.0

◆ Motor with Gear Head Dimension



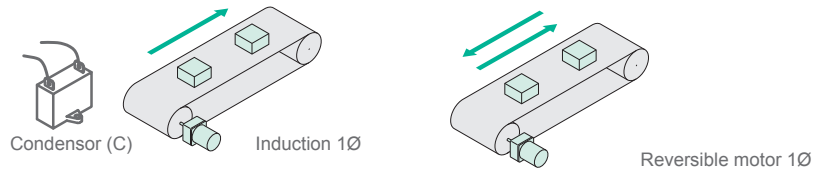
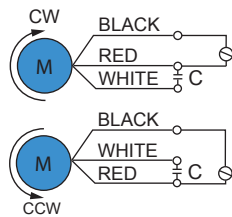
◆ Installation of motor & gear head

- Step 1 Take down the sealed cap of the gear head (fig.1).
- Step 2 Place the O-ring at the bottom of pinion shaft of the motor (fig.2).
- Step 3 The motor and gear head should be vertical to each other, prevent left & right rotation to avoid damage to the gear shaft of motor (fig.3). After assembling the motor and gear head together, lock them with bolt (supplied with gear box).



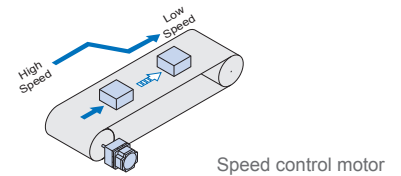
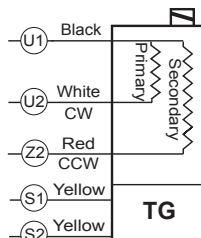
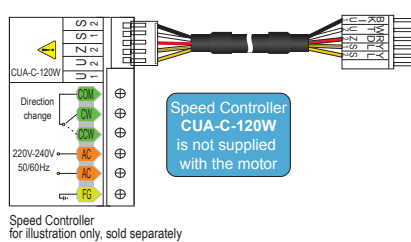
◆ Connection

B9IP120FC
B9IS120FC



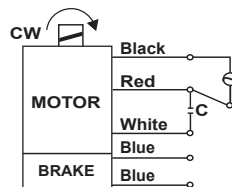
◆ Connection

B9IP120FC-SU
B9IS120FC-SU

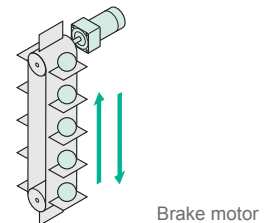
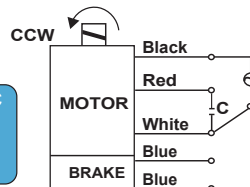


◆ Connection

B9RP120FC-B

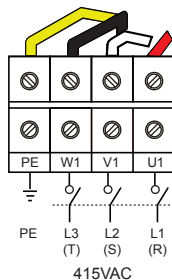
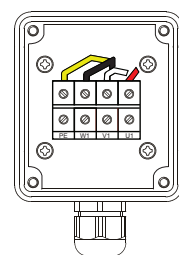


Apply 230VAC at Blue wires to release the brake



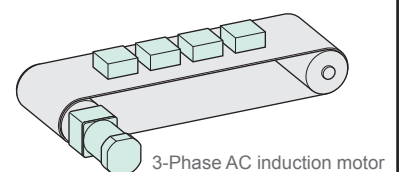
◆ Connection

B9IP120FHZ
B9IS120FHZ



Change any two phase for CCW rotation

Note : Connection for B9IP120FHZ & B9IS120FHZ can be converted to 220V 3-phase please consult the dealer



Change the direction of motor rotation only after the motor stops completely, if an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.

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