

GF3 Series Gear Motor (Right Angle Shaft Type)

Features and Characteristics

Features and Purposes

Hypoid gear motor adopts hypoid gear design, which features the low noise of worm gear reducer and high efficiency of bevel gear.

High efficiency and energy conservation

The sliding friction of hypoid gear is small and the efficiency can reach as high as 98%. The efficiency of hypoid gear motor is 15-40% higher than worm gear reducer.

Small size

The center distance of hypoid gear can be reduced by 30% compared to the center distance of worm gear, which makes the size more compact.

Low noise

The engagement of bevel gear is usually less than 2 teeth, whereas the engagement of hypoid gear is more than 2.5 teeth, which guarantees a lower noise level compared to bevel gear.

High strength and long life

Hypoid gear is made of special steel through using advanced processing technology and carburizing hardening technology, which guarantees much higher strength and longer service life compared to worm gear reducers; during the design process, hypoid gear reducers adopt high-strength box design, with increased shaft diameter of the gear and selection and bearing with higher precision, it is more suitable for areas that require higher torque standard.

Simple installation

Without being restricted by the direction of the output shaft, we also provide hollow shaft products so that users have more options and flexibility in choosing products that are easy to install.

Wide applications

It is suitable for the transmission in automatic and semi-automatic equipment such as transporting, lifting, printing, packaging, medical, food and electronics devices. It also supports for video equipment, stage lighting and fitness equipment.



Description On Characteristics of Right Angle Shaft Type Gear Motor

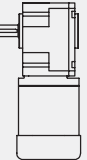
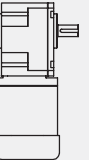
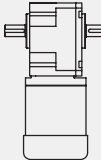
Motor	Number of phases	Three-phase		Single-phase	
	Power	100W~750W		100W~400W	
	Power supply	220V/50Hz	380V/50Hz	220V/50Hz	110V/50Hz
	Insulation grade	Class F			
	Starting method	Direct starting			
	Cooling method	Fan cooling			
	Number of poles	4			
	Working mode	Continuous			
Gearbox	Speed reduction mode	Hyperbolic gear, spiral gear			
	Lubricating method	Grease lubrication (maintenance free)			
	Material of the output key	45			
	Material of the output shaft	40Cr			
	Material of the box	102 aluminium or iron die casting			
Ambient conditions	Ambient temperature	-10°C~40°C			
	Ambient humidity	Under 85% (non-condensing)			
	Altitude	Below 1000m			
	Environment	Well ventilated places that are free of corrosive or explosive air, vapors, and dust.			
	Installation site	Indoor			
Installation direction	-	No restrictions on installation angle, and can be horizontal, vertical, or on the lean.			

GF3 Series Gear Motor (Right Angle Shaft Type)

Model Description

Description of GF3 Series Right Angle Shaft Type Gear Motor Models

GF3S	22	L	015	-	200	S3	B	G4	B
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	

(1) Model	GF3S: concentric hollow shaft, GF3F: concentric solid shaft		
(2) Output shaft diameter	Output shaft diameter (inner diameter for the hollow shaft models, external diameter for the solid shaft models)		
(3) Output shaft direction GF3F models only, hollow shaft is shown as “N”	L: to observe from the input shaft side, output shaft is located on the left (by the gearbox) 	R: to observe from the output shaft side, output shaft is located on the right (by the gearbox cover) 	T: to observe from the input shaft side, output shaft is located on both sides 
(4) Reduction ratio	015 equal to 1:15		
(5) Rated power of motor	1/8HP=100W, 1/4HP=200W, 1/2HP=400W, 1HP=750W		
(6) Number of phases and voltage of motor	A: single-phase 110V, C: : single-phase 220V, S: three-phase 220V, S2: three-phase, 220V and 380V interchangeable, S3: three-phase 380V		
(7) Optional accessories	TP heat protection device, B refers to DCV90 power-off brakes, YB refers to manual release brakes		
(8) Direction of terminal box	When viewing from the tail of the motor, the flange mounting face shall be facing the left.		
(9) Direction of outlet wire	Facing the terminal box, and the fan cover shall be facing the right, U: up, D: down, F: forward, B: backward (standard)		

Direction of GF3 series terminal box (view from end of motor, gearbox to the left and gearbox cover to the right)

G1-Left	G2-Right	G3-Up	G4-Down (Standard direction)

Direction of outlet wire (to the terminal box and fan cover to the right)

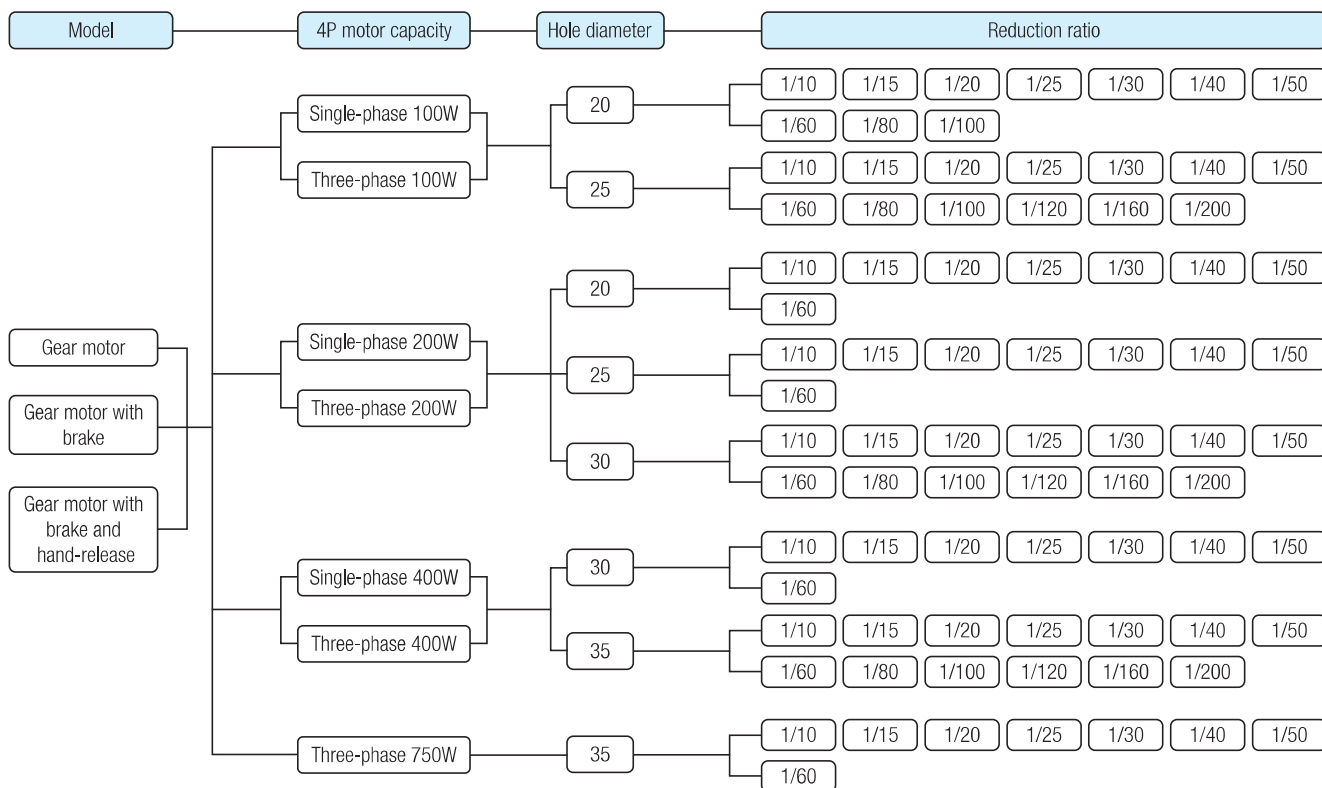
U: up	D: down	F: forward	B: backward (standard)

GF3 Series Gear Motor (Right Angle Shaft Type)

Type, Model, Standard Model Composition Table

Composition of standard models

GF3S [Concentric hollow shaft]



GF3F [Concentric solid shaft]

