

GF Series Gear Motor (Right Angle Shaft Type)

GF 100W

Small AC Gear Motor

GF Single-phase/Three-phase 100W GFS [Hollow Shaft] / GFF [Solid Shaft]

Motor Parameters

Motor specifications	Power (W)	Insulation grade	Voltage (V)	Frequency (Hz)	Rated current (A)	Rated operating speed (rpm)	Capacitance (μF)
Single-phase	100	F	220	50	1.1	1400	10
			110	50	2.2	1400	10
Three-phase	100	F	380	50	0.4	1400	-
			220	50	0.6	1400	-

Torque Table of Gear Motor

Motor power	Shaft diameter	Reduction ratio	Operating speed of output shaft (rpm)	Allowable torque of output shaft		Allowable O.H.L. of output shaft		Allowable axial load of output shaft		Outline Dimension	
			50Hz	N.m	Kgf.m	N	Kgf	N	Kgf	Gear motor with brake	
										GFS	GFF
Single-phase Three-phase 100W	25 (22)	1/ 10	150	5.2	0.53	1520	155	382	39	Figure GF-1	Figure GF-2
		1/ 15	100	7.7	0.79	1720	175	431	44		
		1/ 20	75	11	1.1	1860	190	471	48		
		1/ 25	60	13	1.3	2010	205	500	51		
		1/ 30	50	16	1.6	2110	215	530	54		
		1/ 40	37.5	21	2.1	2300	235	579	59		
		1/ 50	30	25	2.6	2450	250	618	63		
		1/ 60	25	31	3.2	2550	260	637	65		
		1/ 80	18.8	39	4	2550	260	637	65		
		1/ 100	15	49	5	2550	260	637	65		
		1/ 120	12.5	59	6	2550	260	637	65		
		1/ 160	9.4	78	8	2550	260	637	65		
		1/ 200	7.5	98	10	2550	260	637	65		

Notes: 1. The allowable O.H.L. of the output shaft should be considered when the chain tooth, conveyor belt, and gear are used to connect the reducer shaft and the supporting machines.

2. Location of allowable O.H.L. load in the table (solid shaft: center of the output shaft; hollow shaft: at 20mm to the end surface of the output shaft).

3. The value in the bracket is the shaft diameter of GFF concentric solid shaft.

Detailed dimensions of GFS output shafts

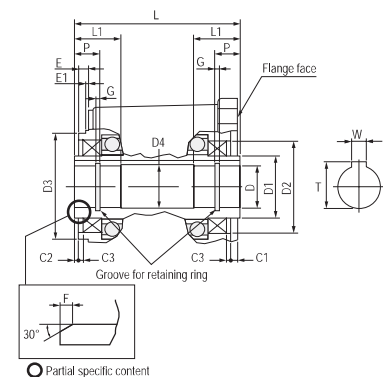
Shaft diameter	D (H8)	D1	D2 (H8)	D3 (H8)	D4	W	T	L	L1	P	C1	C2	C3	E	E1	F	G
25	Φ25	Φ39	Φ58	Φ66	Φ26	8	28.3	108	27	14	6	2	3	6	0	2	1.35

Notes: 1. The new JIS key adopts the JIS B1301-1996 general standard.

2. Materials used for keys without output shaft.

3. C-type retainer rings adopt JIS B2804-1978 standard.

4. No C-type damping ring available.



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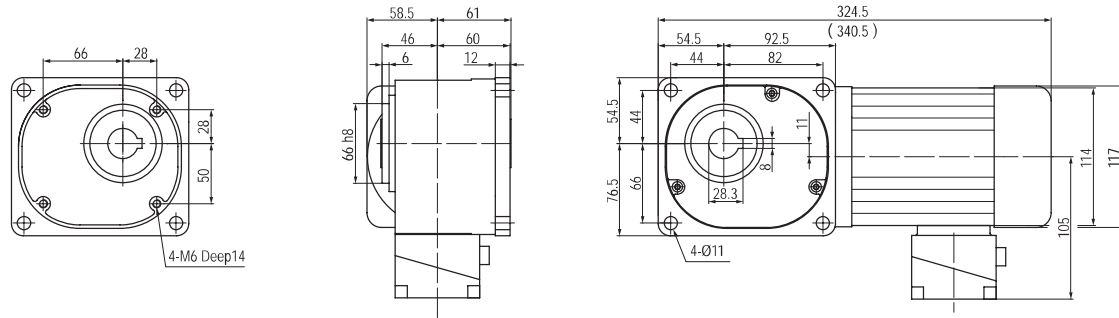
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Outline Dimension

GF25N010-200-100

Figure GF-1



GFF225010-200-100

Figure GF-2

