

GF Series Gear Motor (Right Angle Shaft Type)

GF 400W

Small AC Gear Motor

GF Single-phase/Three-phase 400W GFS [Hollow Shaft] / GFF [Solid Shaft]

Motor Parameters

Motor specifications	Power (W)	Insulation class	Voltage (V)	Frequency (Hz)	Rated current (A)	Rated operating speed (rpm)	Capacitance (μF)
Single-phase	400	F	220	50	3.8	1400	30
			110	50	7.6	1400	30
Three-phase	400	F	380	50	1.24	1400	-
			220	50	2.13	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 400W	30 (28)	1/10	150	23	2.3	2450	250	618	63	Figure GF-7	Figure GF-9
		1/15	100	33	3.4	2740	280	686	70		
		1/20	75	44	4.5	2990	305	745	76		
		1/25	60	55	5.6	3190	325	794	81		
		1/30	50	67	6.8	3280	335	824	84		
		1/40	37.5	88	9	3480	355	873	89		
		1/50	30	111	11.3	3480	355	873	89		
	35 (32)	1/60	25	133	13.6	3480	355	873	89	Figure GF-8	Figure GF-10
		1/10	150	23	2.3	2450	250	618	63		
		1/15	100	33	3.4	2740	280	686	70		
		1/20	75	44	4.5	2990	305	745	76		
		1/25	60	55	5.6	3190	325	794	81		
		1/30	50	67	6.8	3280	335	824	84		
		1/40	37.5	88	9	3480	355	873	89		
		1/50	30	111	11.3	3480	355	873	89		
		1/60	25	133	13.6	3480	355	873	89		
		1/80	18.8	169	17.2	3480	355	873	89		
		1/100	15	211	21.5	3530	360	883	90		
		1/120	12.5	253	25.8	3530	360	883	90		
		1/160	9.4	270	27.6	3630	370	912	93		
		1/200	7.5	270	27.6	3630	370	912	93		

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

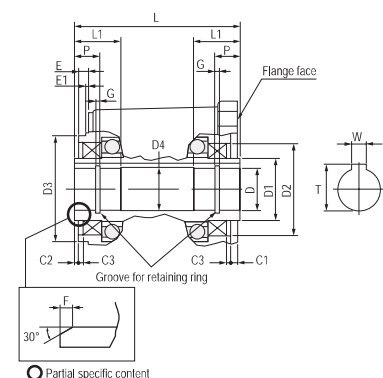
Shaft diameter	D (H8)	D1	D2 (H8)	D3 (H8)	D4	W	T	L	L1	P	C1	C2	C3	E	E1	F	G
30	Φ30	Φ44	Φ65	Φ75	Φ31	8	33.3	117	33	17	5	2	3	7	0	2	1.35
35	Φ35	Φ49	Φ72	Φ85	Φ36	10	38.3	124	38	20	3	2	3	7	0	2	1.75

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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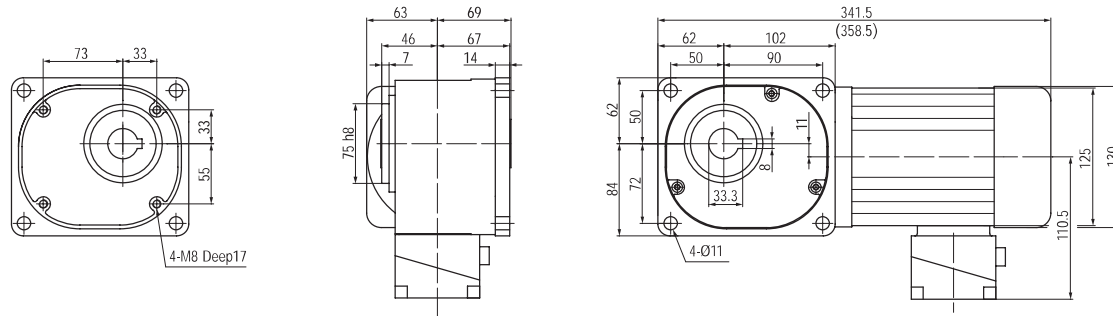
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Outline Dimension

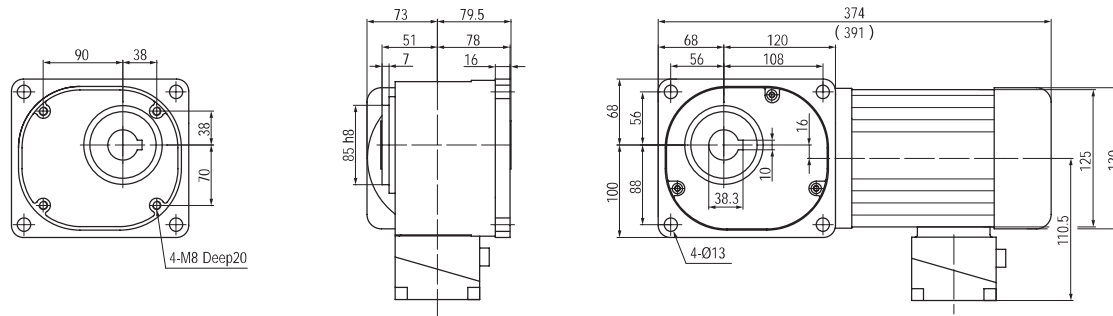
GF30N010-60-400

Figure GF-7



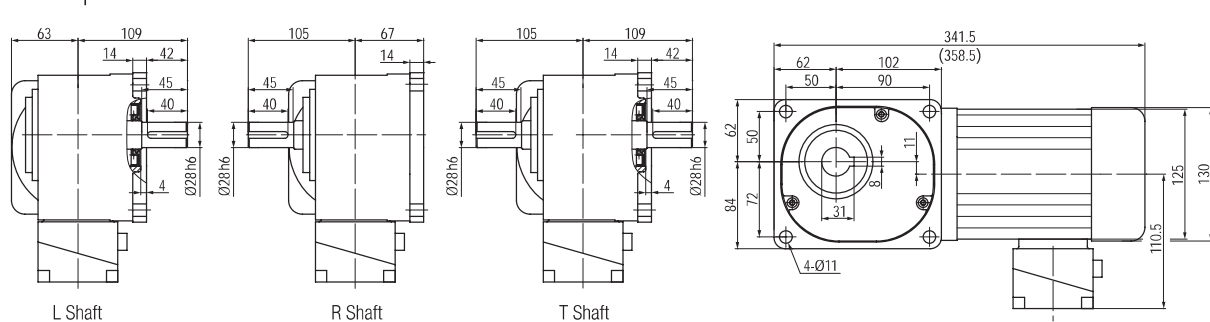
GF35N010-200-400

Figure GF-8



GFF28010-60-400

Figure GF-9



GFF32010-200-400

Figure GF-10

