

Notes for Dimensions

■Tolerances for Shaft and Hole Dimension

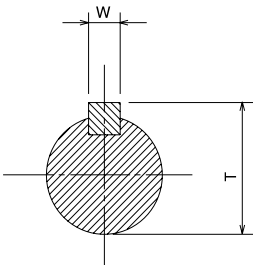
[mm]

Nominal Size	Shaft			Hole	
	h6	h7	h8	H7	H8
Over 10 to 18	-0.011~0	-0.018~0	-0.027~0	0~+0.018	0~+0.027
Over 18 to 30	-0.013~0	-0.021~0	-0.033~0	0~+0.021	0~+0.033
Over 30 to 50	-0.016~0	-0.025~0	-0.039~0	0~+0.025	0~+0.039
Over 50 to 80	-0.019~0	-0.030~0	-0.046~0	0~+0.030	0~+0.046
Over 80 to 120	-0.022~0	-0.035~0	-0.054~0	0~+0.035	0~+0.054
Over 120 to 180	-0.025~0	-0.040~0	-0.063~0	0~+0.040	0~+0.063
Over 180 to 250	-0.029~0	-0.046~0	-0.072~0	0~+0.046	0~+0.072
Over 250 to 315	-0.032~0	-0.052~0	-0.081~0	0~+0.052	0~+0.081

■Tolerances for Output (solid) Shaft Dimension

[mm]

Output Shaft Dia.	W		T	
	Nominal Dim.	Tolerance	Nominal Dim.	Tolerance
12	4	-0.030~0	13.5	-0.23~0
15	5	-0.030~0	17	-0.23~0
18	6	-0.030~0	20.5	-0.23~0
22	6	-0.030~0	24.5	-0.23~0
28	8	-0.036~0	31	-0.29~0
32	10	-0.036~0	35	-0.29~0
40	12	-0.043~0	43	-0.29~0
50	14	-0.043~0	53.5	-0.29~0

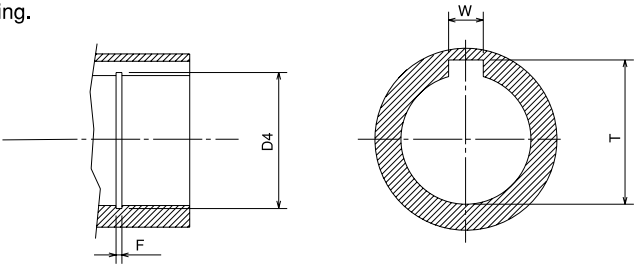


■Tolerances for Output (hollow) Shaft Dimension

[mm]

Output Shaft Dia.	W		T		D4		F	
	Nominal Dim.	Tolerance	Nominal Dim.	Tolerance	Nominal Dim.	Tolerance	Nominal Dim.	Tolerance
20	6	±0.015	22.8	0~0.2	φ21	0~0.21	1.15	0~0.14
25	8	±0.018	28.3	0~0.2	φ26.2	0~0.21	1.35	0~0.14
30	8	±0.018	33.3	0~0.2	φ31.4	0~0.25	1.35	0~0.14
35	10	±0.018	38.3	0~0.2	φ37	0~0.25	1.75	0~0.14
45	14	±0.0215	48.8	0~0.2	φ47.5	0~0.25	1.95	0~0.14
55	16	±0.0215	59.3	0~0.2	φ58	0~0.30	2.2	0~0.14

Note : D4 and F indicate the tolerances for the retaining ring.



Dimensions

Hollow Shaft Type 50W~2.2kW

3 Phase

F Series FS Type

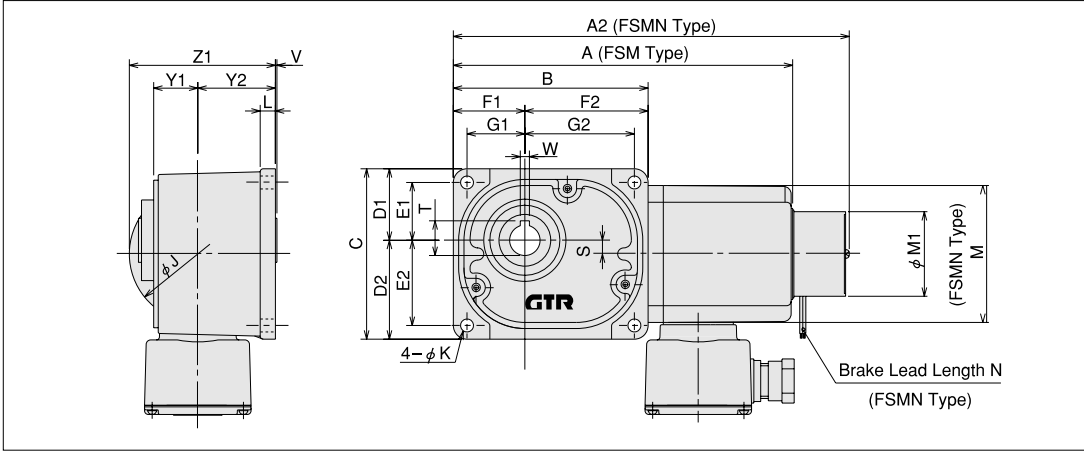


Figure 13. FSM / FSMN

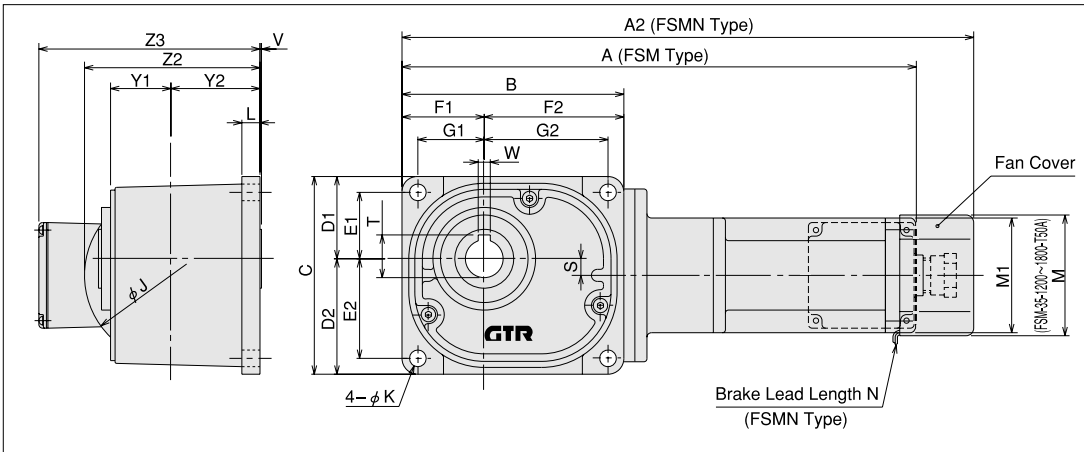


Figure 14. FSM / FSMN

Motor Capacity	Designation	Fig.	A	A1	A2	B	C	D1	D2	E1	E2	F1	F2	G1
50W	FSM/MN-20-10~240-T50A	13	223	—	260.5	128	112	47	65	38	56	47	81	38
	FSM/MN-25-300~450-T50A	14	379	—	379	147	131	54.5	76.5	44	66	54.5	92.5	44
	FSM/MN-30-600~900-T50A	14	395	—	395	164	146	62	84	50	72	62	102	50
	FSM/MN-35-1200~1800-T50A	14	392.5	—	429	188	168	68	100	56	88	68	120	56
0.1kW	FSM/MN-25-10~240-T010A	15	—	271	311	147	131	54.5	76.5	44	66	54.5	92.5	44
	FSM/MN-30-300~450-T010A	16	—	337	377	164	146	62	84	50	72	62	102	50
	FSM/MN-35-600~1500-T010A	16	—	365	405	188	168	68	100	56	88	68	120	56
0.2kW	FSM/MN-30-5~240-T020A	15	333	—	350	164	146	62	84	50	72	62	102	50
	FSM/MN-35-300~450-T020A	16	416	—	433	188	168	68	100	56	88	68	120	56
	FSM/MN-45-600~1500-T020A	16	463	—	480	234	204	85	119	70	104	85	149	70
0.4kW	FSM/MN-35-5~240-T040A	15	379	—	398.5	188	168	68	100	56	88	68	120	56
	FSM/MN-45-300~450-T040A	16	481.5	—	501	234	204	85	119	70	104	85	149	70
	FSM/MN-55-600~1500-T040A	16	552	—	571.5	298	262	110	152	90	132	110	188	90
0.75kW	FSM/MN-45-5~240-075	15	441.5	—	448.5	234	204	85	119	70	104	85	149	70
	FSM/MN-55-300~450-075	16	582.5	—	589.5	298	262	110	152	90	132	110	188	90
1.5kW	FSM/MN-55-5~240-150	15	552.5	—	573	298	262	110	152	90	132	110	188	90
2.2kW	FSM/MN-55-5~120-220	15	577.5	—	598	298	262	110	152	90	132	110	188	90

Note:

♣. M1 is for FSM type model since the fan cover is not attached.

◆. Since the fan cover is not attached to FSM type model, no dimension is given.

1. For the detailed dimensions of output shaft, see page 59~60.

2. All dimensions are in millimeters.

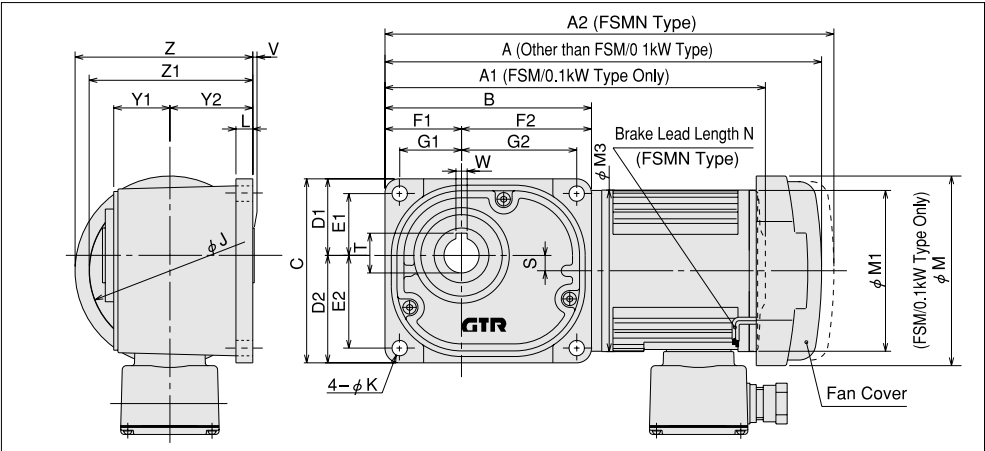


Figure 15. FSM / FSMN

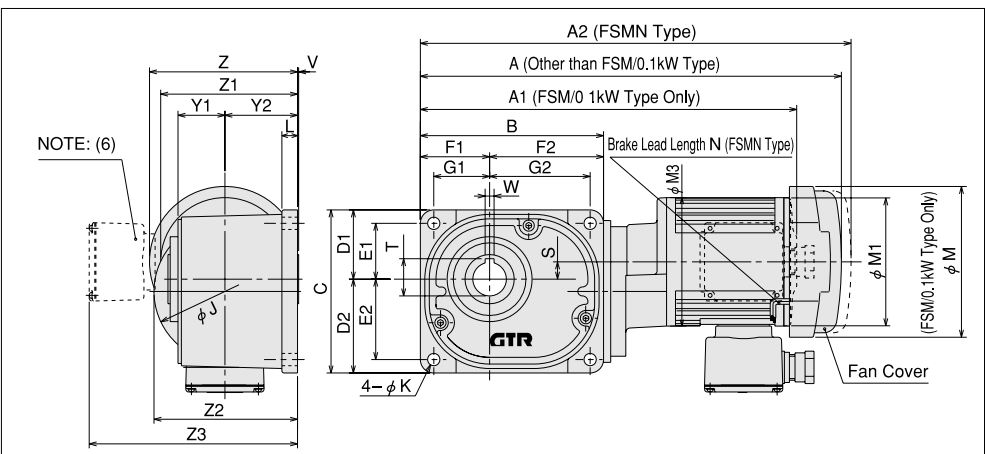


Figure 16. FSM / FSMN

(mm)

	G2	J	K	L	M	M1	M3	N	S	V	Y1	Y2	Z	Z1	Z2	Z3	Dimensions of Output Shaft	
																	W	T
	72	90	8.5	10	90	56	—	300	9	1	29	51	—	96	—	—	6	22.8
	82	114.5	11	12	80	—	—	300	11	1	40	59	—	—	116.5	147	8	28.3
	90	127	11	14	80	—	—	300	11	1	42	65	—	—	128.5	153	8	33.3
	108	127	13	16	94 ♣	90	—	300	16	1	44	70	—	—	133.5	163	10	38.3
	82	114.5	11	12	135 ♣	115	115	200	11	1	40	59	126.5 ♦	116.5	—	—	8	28.3
	90	127	11	14	135 ♣	115	115	200	15.5	1	42	65	132.5 ♦	122.5	128.5	—	8	33.3
	108	127	13	16	135 ♣	115	115	200	11.5	1	44	70	137.5 ♦	127.5	133.5	187	10	38.3
	90	127	11	14	135	—	115	200	11	1	42	65	132.5	122.5	—	—	8	33.3
	108	127	13	16	135	—	115	200	18	1	44	70	137.5	127.5	133.5	187	10	38.3
	134	142	15	18	135	—	115	200	17	1	51	80	147.5	137.5	151	197	14	48.8
	108	127	13	16	141	—	128	200	16	1	44	70	140.5	134	—	—	10	38.3
	134	142	15	18	141	—	128	200	25	1	51	80	150.5	144	151	—	14	48.8
	168	165	18	22	141	—	128	200	21	1	70	98	168.5	162	180.5	—	16	59.3
	134	—	15	18	162	—	160	200	17	1	51	80	161	160	—	—	14	48.8
	168	165	18	22	162	—	160	200	30	1	70	98	179	178	180.5	—	16	59.3
	168	—	18	22	186	—	179	250	21	1	70	98	191	187.5	—	—	16	59.3
	168	—	18	22	186	—	179	250	21	1	70	98	191	187.5	—	—	16	59.3

Note:

3. Eyebolts will be attached to the models of #45 and #55 frame.
4. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
5. For the dimensions of the terminal box, see page 17.
6. As for FSM/MN-35-600~1500-T010A, FSM/MN-35-300~450-T020A and FSM/MN-45-600~1500-T020A, Terminal Box is on the right side seen from the motor end.

Dimensions

Hollow Shaft Type 0.1kW~1.5kW

3 Phase

F2 Series F2S Type

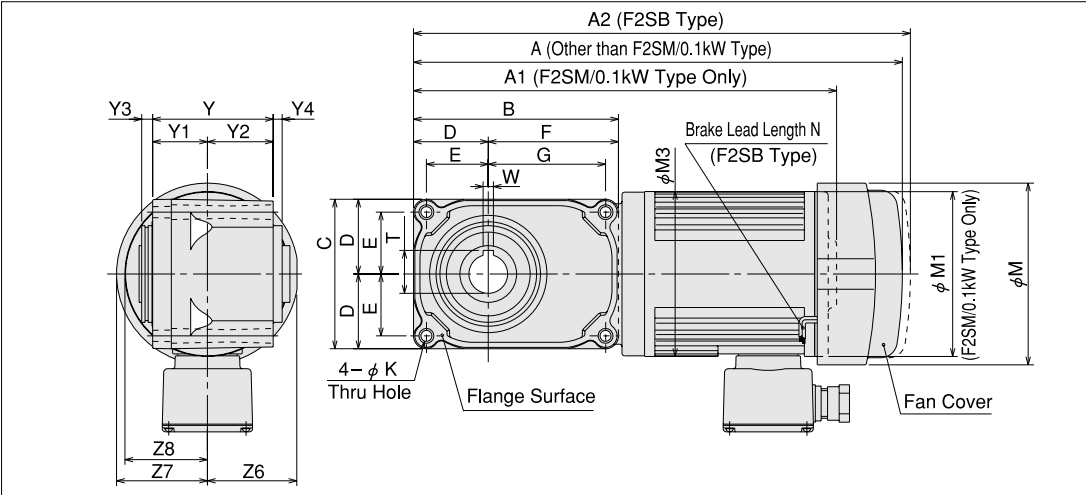


Figure 17. F2SM / F2SB

Motor Capacity	Designation	Fig.	A	A1	A2	B	C	D	E	F	G	
0.1kW	F2SM/B-20-5~60-T010A	17	—	256.5	296.5	127	97	48.5	38.5	78.5	68.5	
0.2kW	F2SM/B-25-5~60-T020A	17	315	—	332	140	107	53.5	43.5	86.5	76.5	
0.4kW	F2SM/B-30-5~60-T040A	17	360	—	379.5	159	116	58	48	101	91	
0.75kW	F2SM/B-35-5~60-075	17	406.5	—	413.5	185	136	68	56	117	105	
1.5kW	F2SM/B-40-5~60-150	17	508	—	528.5	235	174	87	73	148	134	

- Note:
- ♣. Since the fan cover is not attached, M1 is for F2SM type model.
 - ♣. Since the fan cover is not attached, Z8 is for F2SM type model.
 - 1. Eyebolts will be attached to the 1.5kW type models.
 - 2. For the detailed dimensions of output shaft, see page 59~60.
 - 3. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
 - 4. For the dimensions of the terminal box, see page 17.
 - 5. All dimensions are in millimeters.

[mm]															
	K	M	M1	M3	N	Y	Y1	Y2	Y3	Y4	Z6	Z7	Z8	Dimensions of Output Shaft	
														T	W
	8.5	135 ♠	115	115	200	71.5	32.5	39	8.5	7	57.5	67.5 ♣	57.5	22.8	6
	8.5	135	—	115	200	83.5	37.5	46	8.5	7	64.5	67.5	57.5	28.3	8
	8.5	141	—	128	200	93.5	42.5	51	8.5	7	69.5	70.5	64	33.3	8
	11	162	—	160	200	102.5	44.5	58	8.5	7	80	81	80	38.3	10
	13	186	—	179	250	118.5	57.5	61	8.5	7	86	93	89.5	48.8	14

Dimensions

Solid Shaft Type 50W~0.75kW

3 Phase

F Series FF Type

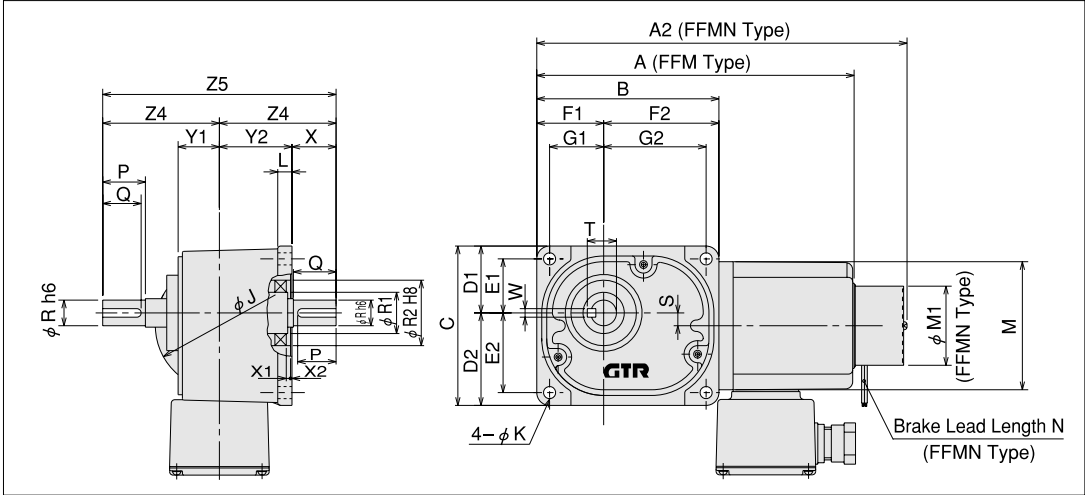


Figure 18. FFM / FFMN

Motor Capacity	Designation	Fig.	A	A1	A2	B	C	D1	D2	E1	E2	F1	F2	G1	G2	J	
50W	FFM/MN-18L/R/T-10~240-T50A	18	223	—	260.5	128	112	47	65	38	56	47	81	38	72	90	
0.1kW	FFM/MN-22L/R/T-10~240-T010A	19	—	271	311	147	131	54.5	75.5	44	66	54.5	92.5	44	82	114.5	
0.2kW	FFM/MN-28L/R/T-5~240-T020A	19	333	—	350	164	146	62	84	50	72	62	102	50	90	127	
0.4kW	FFM/MN-32L/R/T-5~240-T040A	19	379	—	398.5	188	168	68	100	56	88	68	120	56	108	127	
0.75kW	FFM/MN-40L/R/T-5~240-075	19	441.5	—	448.5	234	204	85	119	70	104	85	149	70	134	142	

- Note:
- ♣. Since the fan cover is not attached, M1 is for FFM type model.
 - 1. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
 - 2. For the dimensions of the terminal box, see page 17.
 - 3. All dimensions are in millimeters.

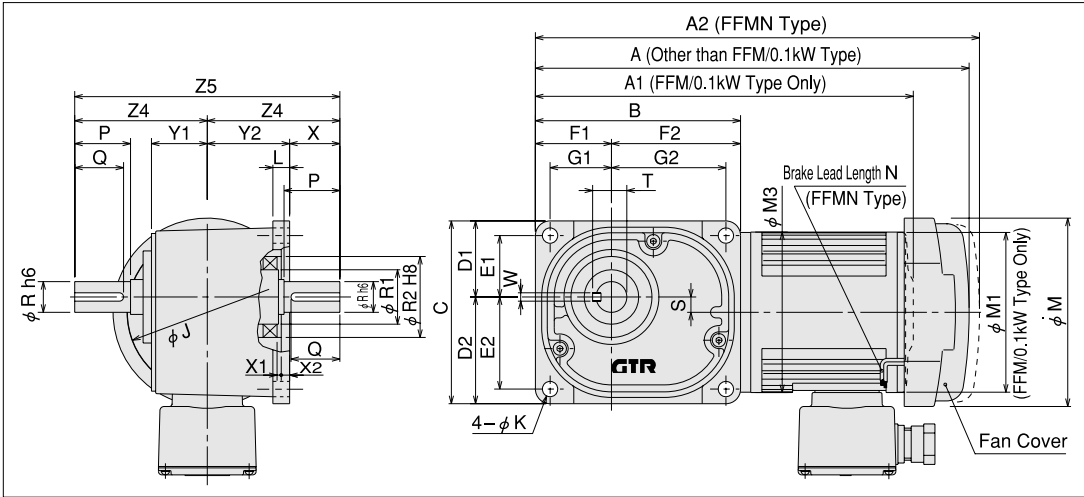


Figure 19. FFM / FFMN

	K	L	M	M1	M3	N	S	Y1	Y2	Z4	Z5	Dimensions of Output Shaft									
												P	Q	R	R1	R2	T	W	X	X1	X2
	8.5	10	90	56	—	300	9	29	51	82	164	30	27	18	29	46	20.5	6	31	3	1
	11	12	135	115	115	200	11	40	59	95	190	40	35	22	39	58	24.5	6	36	3	6
	11	14	135	—	115	200	11	42	65	107	214	45	40	28	44	65	31	8	42	3	5
	13	16	141	—	128	200	16	44	70	124	248	55	50	32	49	72	35	10	54	3	3
	15	18	162	—	160	200	17	51	80	144	288	65	60	40	64	85	43	12	64	3	3

[mm]

Dimensions

Solid Shaft Type 0.1kW~1.5kW

3 Phase

F2 Series F2F Type

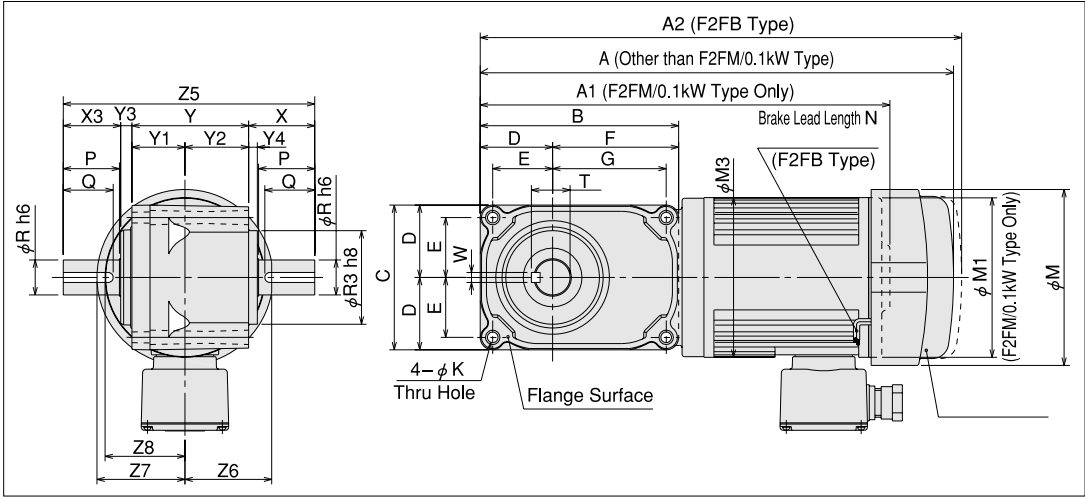


Figure 20. F2FM / F2FB

Motor Capacity	Designation	Fig.	A	A1	A2	B	C	D	E	F	G	K	M	M1
0.1kW	F2FM/B-18L/R/T-5~60-T010A	20	—	256.5	296.5	127	97	48.5	38.5	78.5	68.5	8.5	135♣	115
0.2kW	F2FM/B-22L/R/T-5~60-T020A	20	315	—	332	140	107	53.5	43.5	86.5	76.5	8.5	135	—
0.4kW	F2FM/B-28L/R/T-5~60-T040A	20	360	—	379.5	159	116	58	48	101	91	8.5	141	—
0.75kW	F2FM/B-32L/R/T-5~60-075	20	406.5	—	413.5	185	136	68	56	117	105	11	162	—
1.5kW	F2FM/B-40L/R/T-5~60-150	20	508	—	528.5	235	174	87	73	148	134	13	186	—

- Note:
- ♣. Since the fan cover is not attached, M1 is for F2FM type model.
 - ♣. Since the fan cover is not attached, Z8 is for F2FM type model.
 - 1. Eyebolts will be attached to the 1.5kW type models.
 - 2. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
 - 3. For the dimensions of the terminal box, see page 17.
 - 4. All dimensions are in millimeters.

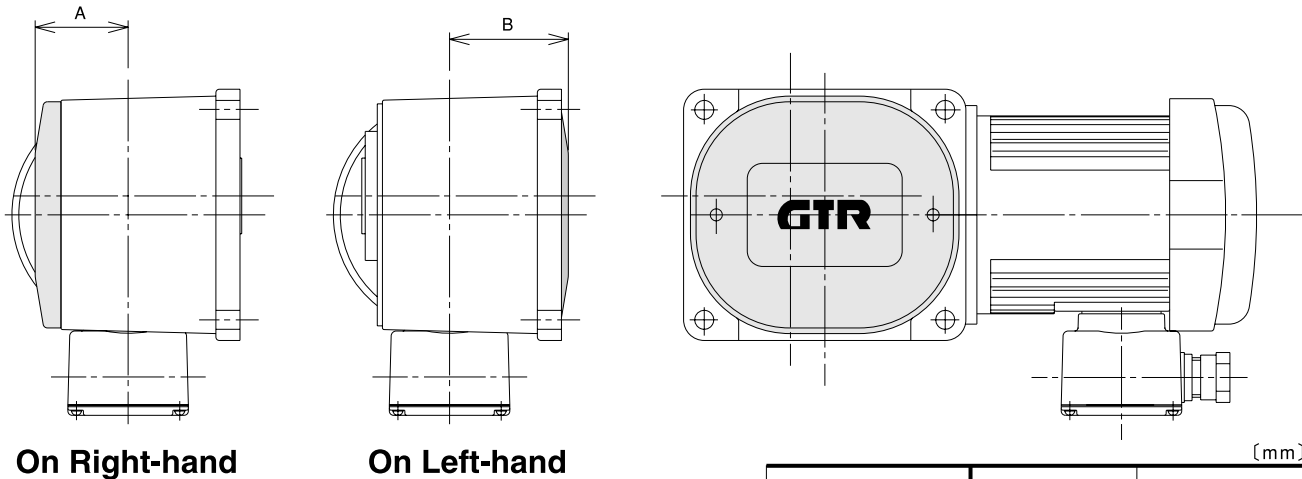
(mm)

	M3	N	Y	Y1	Y2	Y3	Y4	Z5	Z6	Z7	Z8	Dimensions of Output Shaft							
												P	Q	R	R3	T	W	X	X3
	115	200	71.5	32.5	39	9	7	149.5	57.5	67.5 ♣	57.5	30	27	18	53	20.5	6	38	31
	115	200	83.5	37.5	46	9	7	181.5	64.5	67.5	57.5	40	35	22	66	24.5	6	48	41
	128	200	93.5	42.5	51	9	7	201.5	69.5	70.5	64	45	40	28	75	31	8	53	46
	160	200	102.5	44.5	58	9	7	230.5	80	81	80	55	50	32	85	35	10	63	56
	179	250	118.5	57.5	61	9	7	266.5	89.5	93	89.5	65	60	40	100	43	12	73	66

Dimensions

F, F2 Series

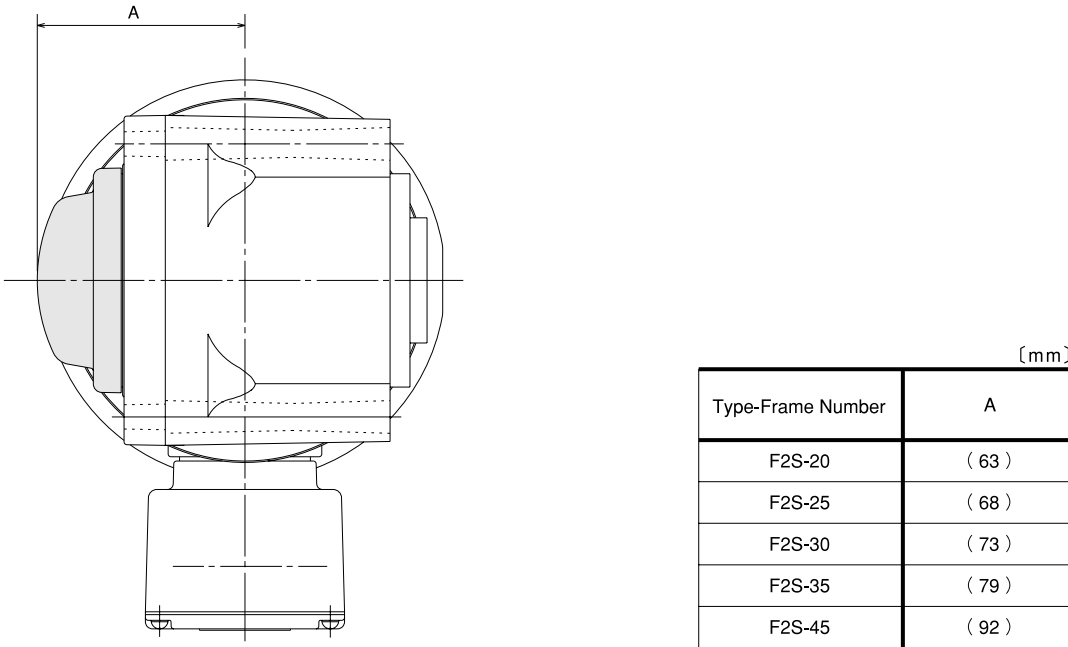
Measurements of F Series FS Type Model with the Plastic Cover



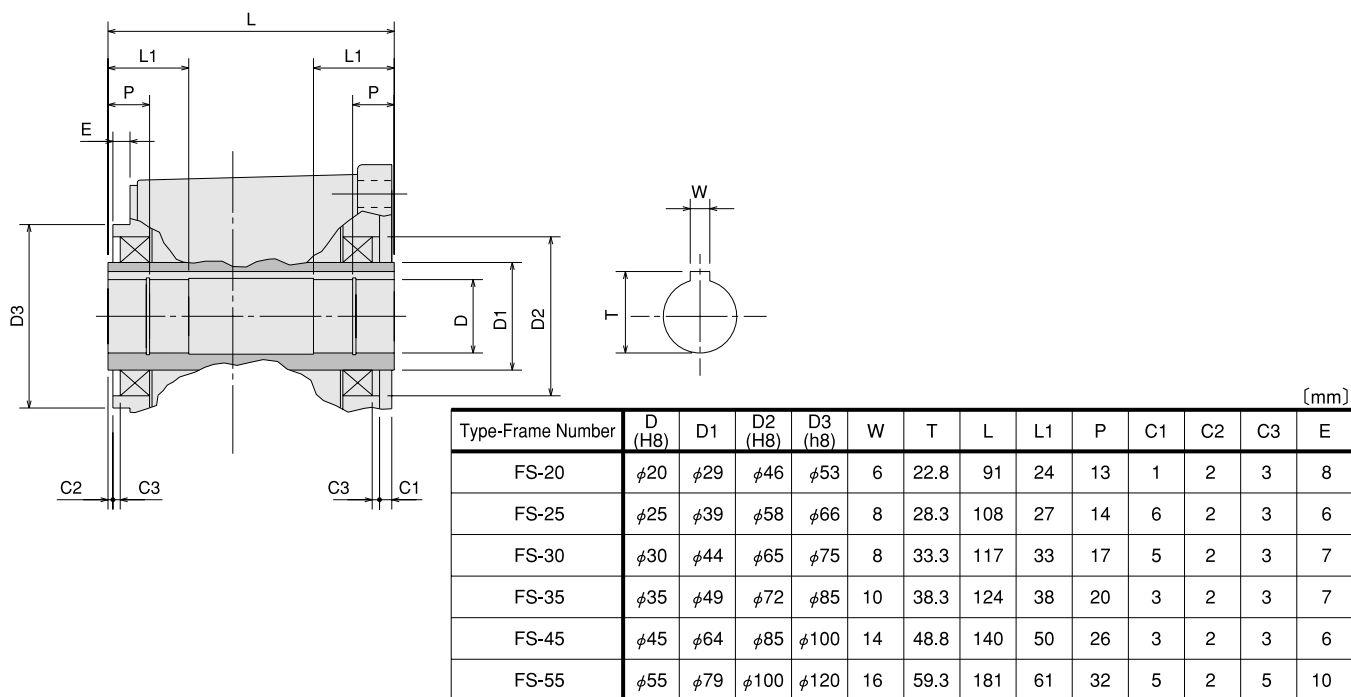
Directions
 ※When facing the end of the motor opposite the drive shaft

Type-Frame Number	On Right-hand A	On Left-hand B
FS-20	42	55
FS-25	51	63
FS-30	54	69
FS-35	56	74
FS-45	62	84
FS-55	87	104

Measurements of F2 Series F2S Type Model with the Safety Cap



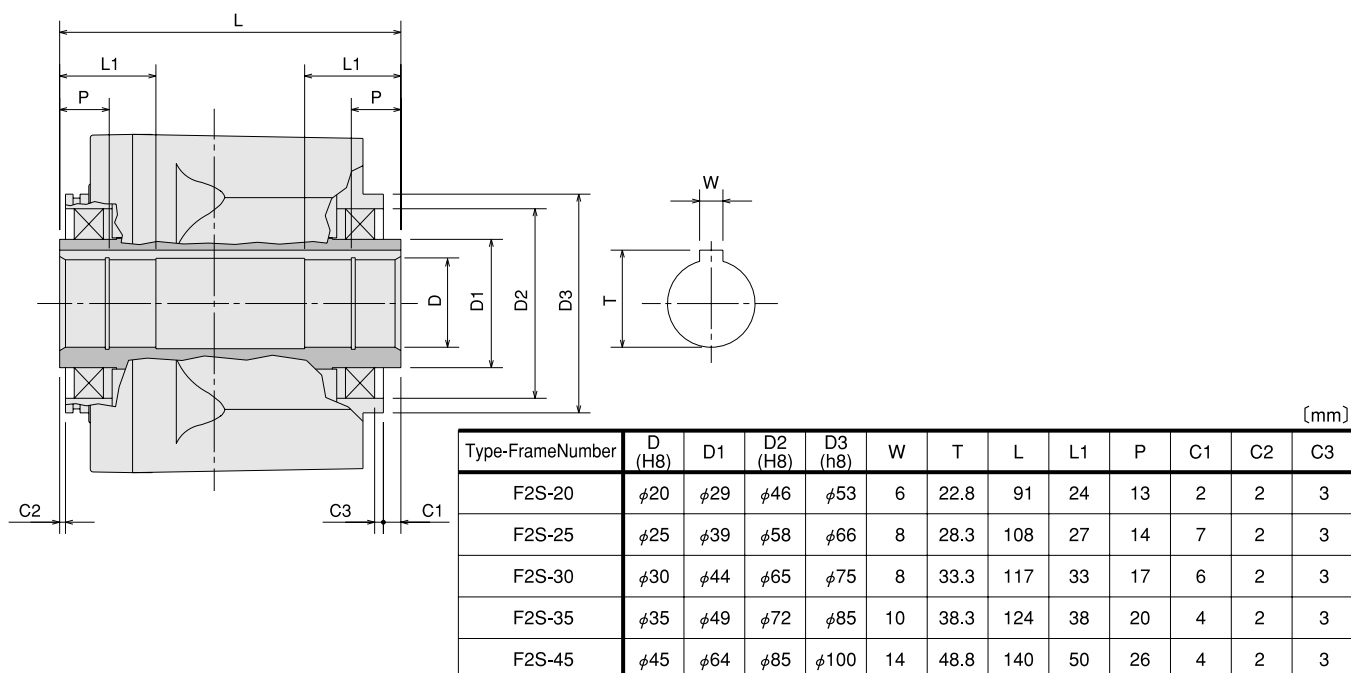
Dimensions of Output Shaft for F Series FS Type Model



Note:

1. New JIS Size Key: JIS B1301-1976 (Normal Class)
2. The key for the output shaft is not attached to this type model.
3. Snap Rings-C Type: JIS B2804-1978

Dimensions of Output Shaft for F2 Series F2S Type Model



Note:

1. New JIS Size Key: JIS B1301-1976 (Normal Class)
2. The key for the output shaft is not attached to this type model.
3. Snap Rings-C Type: JIS B2804-1978

Dimensions

Right Angle Shaft Type 0.1kW~2.2kW

3 Phase

H2 Series (Foot Mount)

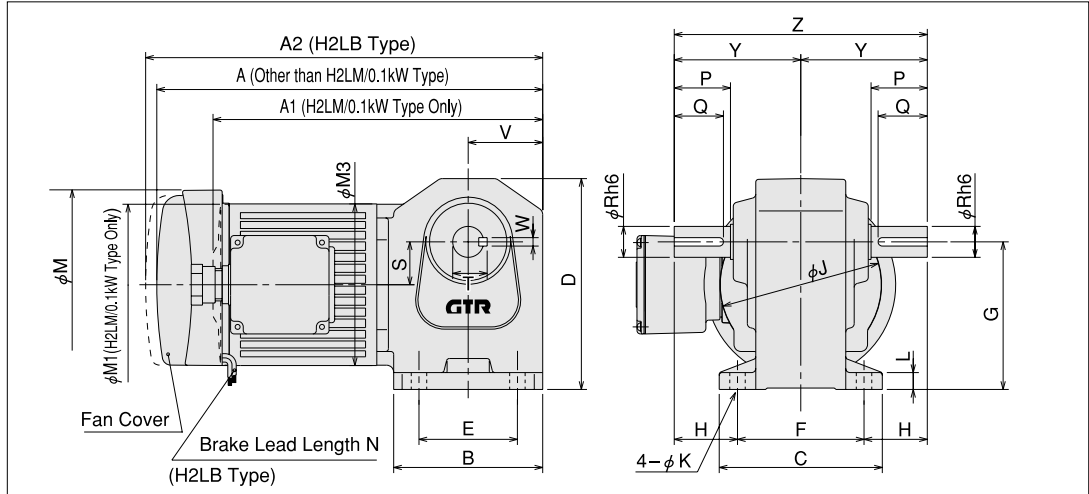


Figure 21. H2LM / H2LB

Motor Capacity	Frame Number	Designation	Fig.	A	A1	A2	B	C	D	D1	E	F	G
0.1kW	22	H2LM/B-22L/R/T-5~240-T010A	21	—	234.5	274.5	106	116	150	—	70	90	105
	28	H2LM/B-28L/R/T-300~450-T010A	22	—	311.5	351.5	125	126	174.5	179 ♣	80	100	120
	32	H2LM/B-32L/R/T-600~1500-T010A	22	—	330.5	370.5	152	150	205	—	95	120	140
0.2kW	22	H2LM/B-22L/R/T-5~60-T020A	21	280.5	—	297.5	106	116	150	—	70	90	105
	28	H2LM/B-28L/R/T-80~240-T020A	21	293	—	310	125	126	174.5	—	80	100	120
	32	H2LM/B-32L/R/T-300~450-T020A	22	395.5	—	412.5	152	150	205	—	95	120	140
	40	H2LM/B-40L/R/T-600~1500-T020A	22	414	—	431	180	180	242.5	—	120	140	165
0.4kW	28	H2LM/B-28L/R/T-5~60-T040A	21	325.5	—	345	125	126	174.5	—	80	100	120
	32	H2LM/B-32L/R/T-80~240-T040A	21	344.5	—	364	152	150	205	—	95	120	140
	40	H2LM/B-40L/R/T-300~450-T040A	22	456	—	475.5	180	180	252	—	120	140	165
	50	H2LM/B-50L/R/T-600~1500-T040A	22	475	—	494.5	210	230	308	—	150	180	200
0.75kW	32	H2LM/B-32L/R/T-5~60-075	21	374	—	381	152	150	205	—	95	120	140
	40	H2LM/B-40L/R/T-80~240-075	21	392.5	—	399.5	180	180	242.5	—	120	140	165
	50	H2LM/B-50L/R/T-300~450-075	22	505.5	—	512.5	210	230	308	—	150	180	200
1.5kW	40	H2LM/B-40L/R/T-5~60-150	21	456.5	—	477	180	180	252	—	120	140	165
	50	H2LM/B-50L/R/T-80~240-150	21	475.5	—	496	210	230	308	—	150	180	200
2.2kW	50	H2LM/B-50L/R/T-5~120-220	21	500.5	—	521	210	230	308	—	150	180	200

Note:

♣. D1 in H2LB type is the maximum height because the top of fan cover is higher than the top of gearbox.

♣. M1 is for H2LM/0.1kW type model since the fan cover is not attached.
M for H2LB/0.1kW type model.

1. Eyeplates will be attached to the 1.5kW~2.2kW type models.

2. For the detailed dimensions of output shaft, see page 71.

3. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.

4. For the dimensions of the terminal box, see page 18.

5. All dimensions are in millimeters.

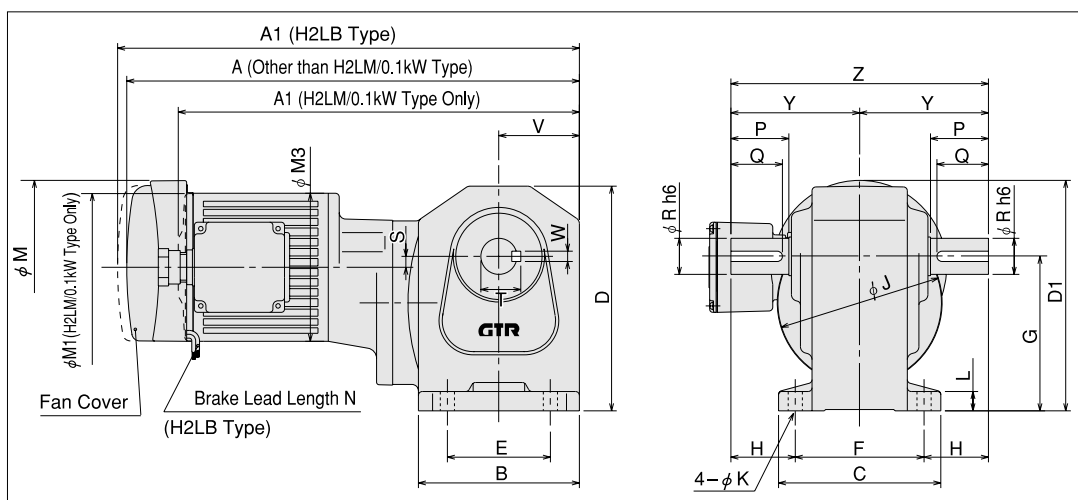


Figure 22. H2LM / H2LB

[mm]																	
	H	J	K	L	M	M1	M3	N	S	V	Y	Z	Dimensions of Output Shaft				
													P	Q	R	W	T
	45	114.5	11	12	135 ♣	115 ♣	115	200	30.5	53	90	180	40	35	22	6	24.5
	50	128	11	15	135 ♣	115 ♣	115	200	8.5	62.5	100	200	45	40	28	8	31
	60	128	13	18	135 ♣	115 ♣	115	200	17.5	76	120	240	55	50	32	10	35
	45	114.5	11	12	135	—	115	200	30.5	53	90	180	40	35	22	6	24.5
	50	114.5	11	15	135	—	115	200	39	62.5	100	200	45	40	28	8	31
	60	142	13	18	135	—	115	200	8	76	120	240	55	50	32	10	35
	70	142	15	20	135	—	115	200	19.5	90	140	280	65	60	40	12	43
	50	127	11	15	141	—	128	200	36	62.5	100	200	45	40	28	8	31
	60	127	13	18	141	—	128	200	45	76	120	240	55	50	32	10	35
	70	165	15	20	141	—	128	200	7.5	90	140	280	65	60	40	12	43
	75	165	18	25	141	—	128	200	23	105	165	330	75	70	50	14	53.5
	60	142	13	18	162	—	160	200	42	76	120	240	55	50	32	10	35
	70	142	15	20	162	—	160	200	53.5	90	140	280	65	60	40	12	43
	75	165	18	25	162	—	160	200	14	105	165	330	75	70	50	14	53.5
	70	165	15	20	186	—	179	250	49.5	90	140	280	65	60	40	12	43
	75	165	18	25	186	—	179	250	65	105	165	330	75	70	50	14	53.5
	75	165	18	25	186	—	179	250	65	105	165	330	75	70	50	14	53.5

Dimensions

Right Angle Shaft Type

0.1kW~2.2kW

3 Phase

H2 Series (Flange Mount)

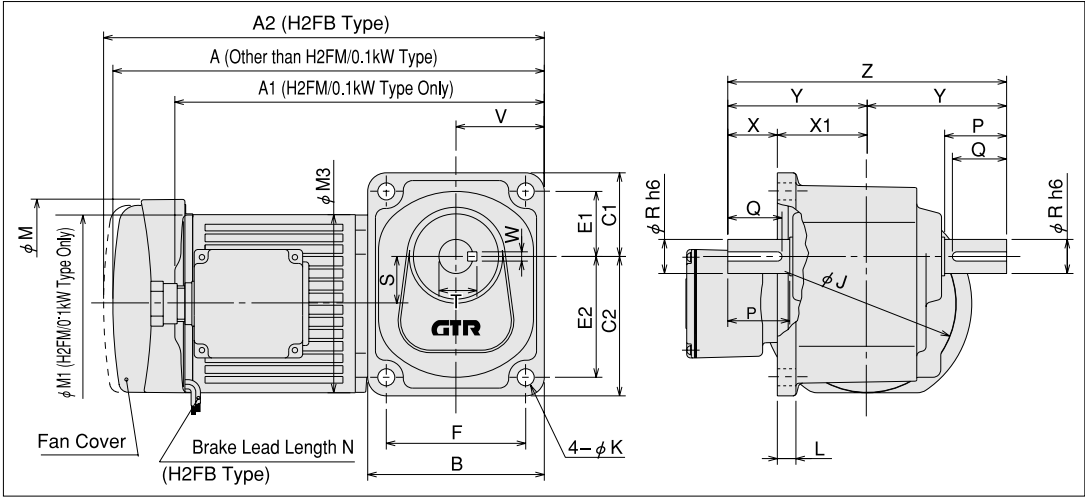


Figure 23. H2FM / H2FB

Motor Capacity	Frame Number	Designation	Fig.	A	A1	A2	B	C1	C2	E1	E2	F	J	
0.1kW	22	H2FM/B-22L/R/T-5~240-T010A	23	—	238.5	278.5	114	54	90	42	78	90	114.5	
0.2kW	22	H2FM/B-22L/R/T-5~60-T020A	23	284.5	—	301.5	114	54	90	42	78	90	114.5	

- Note:
- ♣. M1 is for H2FM/0.1kW type model since the fan cover is not attached. M for H2FB/0.1kW type model.
 - 1. For the detailed dimensions of output shaft, see page 71.
 - 2. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
 - 3. For the dimensions of the terminal box, see page 18.
 - 4. All dimensions are in millimeters.

(mm)

	K	L	M	M1	M3	N	S	V	X	X1	Y	Z	Dimensions of Output Shaft				
													P	Q	R	W	T
	11	12	135 	115 	115	200	30.5	57	32	58	90	180	40	35	22	6	24.5
	11	12	135	—	115	200	30.5	57	32	58	90	180	40	35	22	6	24.5

Dimensions

Parallel Shaft Type 0.1kW~2.2kW

3 Phase

G3 Series (Foot Mount)

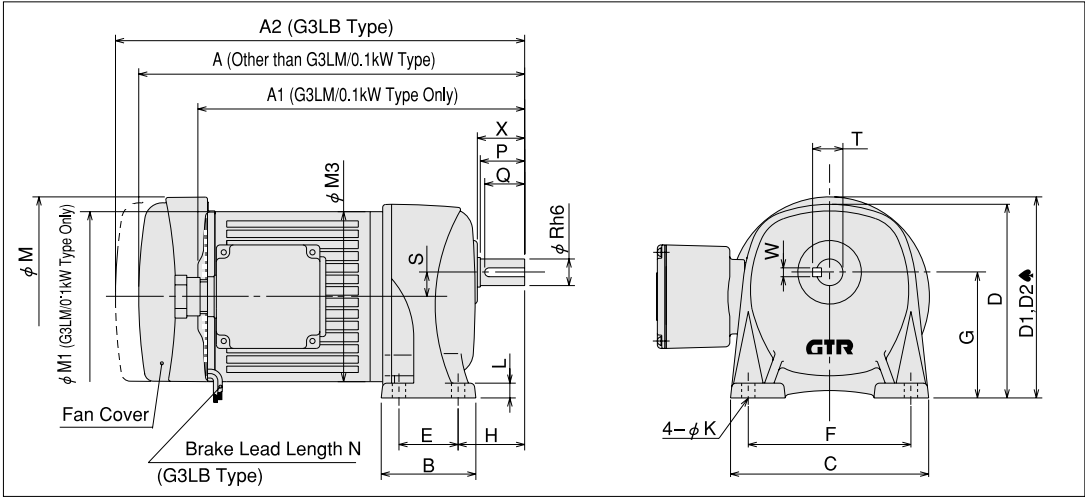


Figure 24. G3LM / G3LB

Motor Capacity	Frame Number	Designation	Fig.	A	A1	A2	B	C	D	D1 Gearmotor	D2 Brake Gearmotor	E
0.1kW	18	G3LM/B-18-5~50-T010A	24	—	221	261	64	134	131 ♣	—	136 ♣	40
	22	G3LM/B-22-60~200-T010A	24	—	247	287	90	154	139	—	—	65
	28	G3LM/B-28-300~450-T010A	25	—	316	356	125	175	167 ♣	171.5 ♣	181.5 ♣	90
	32	G3LM/B-32-600~1200-T010A	25	—	335	375	168	208	198	—	—	130
0.2kW	18	G3LM/B-18-5~25-T020A	24	267	—	284	64	134	131 ♣	136 ♣	136 ♣	40
	22	G3LM/B-22-30~100-T020A	24	293	—	310	90	154	139	—	—	65
	28	G3LM/B-28-100~200-T020A	24	306	—	323	125	175	167	—	—	90
	32	G3LM/B-32-300~450-T020A	25	401	—	418	168	208	198 ♣	203 ♣	203 ♣	130
	40	G3LM/B-40-600~1200-T020A	25	423	—	440	196	254	230	—	—	150
0.4kW	22	G3LM/B-22-5~25-T040A	24	314	—	333.5	90	154	139 ♣	141.5 ♣	141.5 ♣	65
	28	G3LM/B-28-30~100-T040A	24	330	—	349.5	125	175	167	—	—	90
	32	G3LM/B-32-100~200-T040A	24	349	—	368.5	168	208	198	—	—	130
	40	G3LM/B-40-300~450-T040A	25	457	—	476.5	196	254	230	—	—	150
	50	G3LM/B-50-600~1200-T040A	25	485	—	504.5	210	290	265	—	—	160
0.75kW	28	G3LM/B-28-5~25-075	24	350.5	—	357.5	125	175	167.5	—	—	90
	32	G3LM/B-32-30~100-075	24	379.5	—	386.5	168	208	198	—	—	130
	40	G3LM/B-40-100~200-075	24	401.5	—	408.5	196	254	230	—	—	150
	50	G3LM/B-50-300~450-075	25	515.5	—	522.5	210	290	265	—	—	160
1.5kW	32	G3LM/B-32-5~25-150	24	420.5	—	441	168	208	198	—	—	130
	40	G3LM/B-40-30~100-150	24	457.5	—	478	196	254	230	—	—	150
	50	G3LM/B-50-100~200-150	24	485.5	—	506	210	290	265	—	—	160
2.2kW	40	G3LM/B-40-5~25-220	24	466.5	—	487	196	254	230	—	—	150
	50	G3LM/B-50-30~100-220	24	510.5	—	531	210	290	265	—	—	160

Note:
 ♣. D1 in G3LM type or D2 in G3LB is the maximum height because the top of motor or fan cover is higher than the top of gearbox.
 ♣. M1 is for G3LM/0.1kW type model since the fan cover is not attached. M for G3LB/0.1kW type model.
 1. Eyeplates will be attached to the models of #40 (except for 0.75kW type) or #50 frame.
 2. All dimensions are in millimeters.

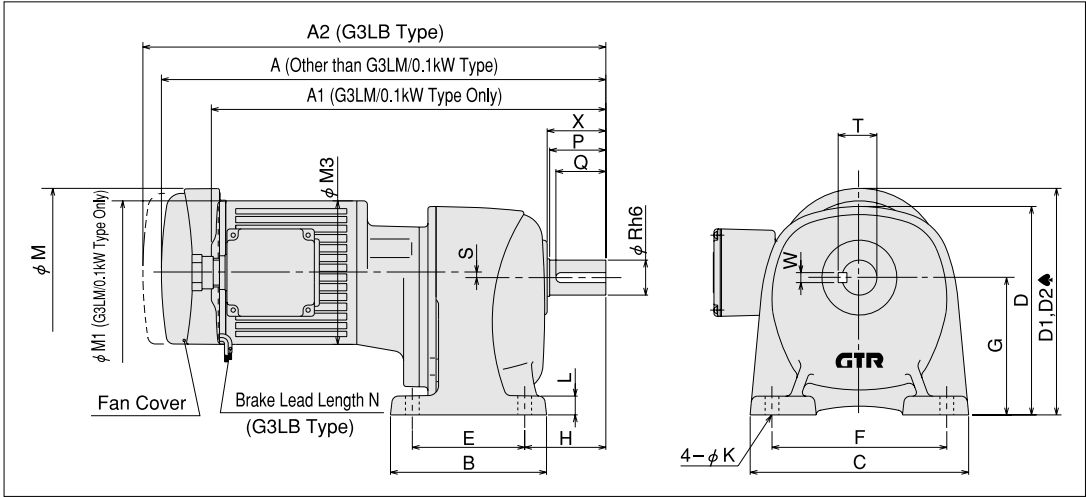


Figure 25. G3LM / G3LB

	F	G	H	K	L	M	M1	M3	N	S	Dimensions of Output Shaft					
											P	Q	R	W	T	X
	110	85	45	9	10	135 ♣	115 ♣	115	200	16.5	30	27	18	6	20.5	32
	130	90	55	11	12	135 ♣	115 ♣	115	200	19	40	35	22	6	24.5	42
	140	110	65	11	15	135 ♣	115 ♣	115	200	4	45	40	28	8	31	47
	170	130	70	13	18	135 ♣	115 ♣	115	200	-1	55	50	32	10	35	58
	110	85	45	9	10	135	-	115	200	16.5	30	27	18	6	20.5	32
	130	90	55	11	12	135	-	115	200	19	40	35	22	6	24.5	42
	140	110	65	11	15	135	-	115	200	23.5	45	40	28	8	31	47
	170	130	70	13	18	135	-	115	200	5.5	55	50	32	10	35	58
	210	150	90	15	20	135	-	115	200	0	65	60	40	12	43	68
	130	90	55	11	12	141	-	128	200	19	40	35	22	6	24.5	42
	140	110	65	11	15	141	-	128	200	23.5	45	40	28	8	31	47
	170	130	70	13	18	141	-	128	200	28.5	55	50	32	10	35	58
	210	150	90	15	20	141	-	128	200	8	65	60	40	12	43	68
	230	170	100	18	25	141	-	128	200	2	75	70	50	14	53.5	78
	140	110	65	11	15	162	-	160	200	23.5	45	40	28	8	31	47
	170	130	70	13	18	162	-	160	200	28.5	55	50	32	10	35	58
	210	150	90	15	20	162	-	160	200	34	65	60	40	12	43	68
	230	170	100	18	25	162	-	160	200	11	75	70	50	14	53.5	78
	170	130	70	13	18	186	-	179	250	28.5	55	50	32	10	35	58
	210	150	90	15	20	186	-	179	250	34	65	60	40	12	43	68
	230	170	100	18	25	186	-	179	250	40	75	70	50	14	53.5	78
	210	150	90	15	20	186	-	179	250	34	65	60	40	12	43	68
	230	170	100	18	25	186	-	179	250	40	75	70	50	14	53.5	78

Note:

- For the detailed dimensions of output shaft, see page 72.
- Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
- For the dimensions of the terminal box, see page 18.

Dimensions

Parallel Shaft Type 0.1kW~2.2kW

3 Phase

G3 Series (Flange Mount)

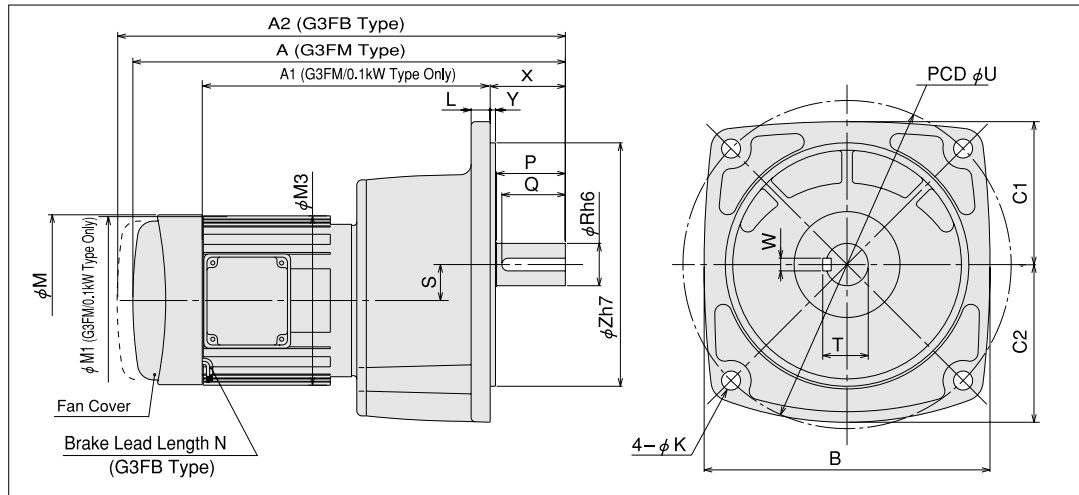


Figure 26. G3FM / G3FB

Motor Capacity	Frame Number	Designation	Fig.	A	A1	A2	B	C1	C2	K	L	
0.1kW	18	G3FM/B-18-5~50-T010A	26	—	221	261	154	77	80	11	10	
	22	G3FM/B-22-60~200-T010A	26	—	247	287	164	82.5	89	11	12	
	28	G3FM/B-28-300~450-T010A	27	—	316	356	186	93	105	11	15	
	32	G3FM/B-32-600~1200-T010A	27	—	335	375	215	107.5	126	13	15	
0.2kW	18	G3FM/B-18-5~25-T020A	26	267	—	284	154	77	80	11	10	
	22	G3FM/B-22-30~100-T020A	26	293	—	310	164	82.5	89	11	12	
	28	G3FM/B-28-100~200-T020A	26	306	—	323	186	93	105	11	15	
	32	G3FM/B-32-300~450-T020A	27	401	—	418	215	107.5	126	13	15	
0.4kW	40	G3FM/B-40-600~1200-T020A	27	423	—	440	270	135	149	18	18	
	22	G3FM/B-22-5~25-T040A	26	314	—	333.5	164	82.5	89	11	12	
	28	G3FM/B-28-30~100-T040A	26	330	—	349.5	186	93	105	11	15	
	32	G3FM/B-32-100~200-T040A	26	349	—	368.5	215	107.5	126	13	15	
0.75kW	40	G3FM/B-40-300~450-T040A	27	457	—	476.5	270	135	149	18	18	
	50	G3FM/B-50-600~1200-T040A	27	485	—	504.5	300	150	173	22	25	
	28	G3FM/B-28-5~25-075	26	350.5	—	357.5	186	93	105	11	15	
	32	G3FM/B-32-30~100-075	26	379.5	—	386.5	215	107.5	126	13	15	
1.5kW	40	G3FM/B-40-100~200-075	26	401.5	—	408.5	270	135	149	18	18	
	50	G3FM/B-50-300~450-075	27	515.5	—	522.5	300	150	173	22	25	
	32	G3FM/B-32-5~25-150	26	420.5	—	441	215	107.5	126	13	15	
	40	G3FM/B-40-30~100-150	26	457.5	—	478	270	135	149	18	18	
2.2kW	50	G3FM/B-50-100~200-150	26	485.5	—	506	300	150	173	22	25	
	40	G3FM/B-40-5~25-220	26	466.5	—	487	270	135	149	18	18	
	50	G3FM/B-50-30~100-220	26	510.5	—	531	300	150	173	22	25	

Note:

♣. M1 is for G3FM/0.1kW type model since the fan cover is not attached.

M for G3FB/0.1kW type model.

1. All dimensions are in millimeters.

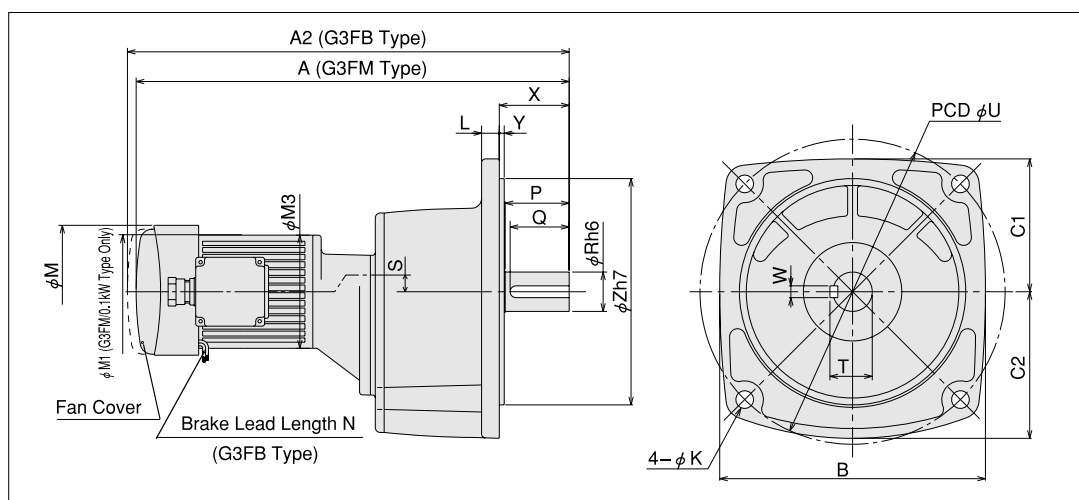


Figure 27. G3FM / G3FB

	M	M1	M3	N	S	U	Y	Z	Dimensions of Output Shaft					
									P	Q	R	W	T	X
	135	115	115	200	16.5	170	3	145	30	27	18	6	20.5	35
	135	115	115	200	19	185	4	148	40	35	22	6	24.5	47
	135	115	115	200	-4	215	4	170	45	40	28	8	31	50
	135	115	115	200	1	250	4	180	55	50	32	10	35	60
	135	-	115	200	16.5	170	3	145	30	27	18	6	20.5	35
	135	-	115	200	19	185	4	148	40	35	22	6	24.5	47
	135	-	115	200	23.5	215	4	170	45	40	28	8	31	50
	135	-	115	200	5.5	250	4	180	55	50	32	10	35	60
	135	-	115	200	0	310	5	230	65	60	40	12	43	71
	141	-	128	200	19	185	4	148	40	35	22	6	24.5	47
	141	-	128	200	23.5	215	4	170	45	40	28	8	31	50
	141	-	128	200	28.5	250	4	180	55	50	32	10	35	60
	141	-	128	200	8	310	5	230	65	60	40	12	43	71
	141	-	128	200	2	360	5	270	75	70	50	14	53.5	83
	162	-	160	200	23.5	215	4	170	45	40	28	8	31	50
	162	-	160	200	28.5	250	4	180	55	50	32	10	35	60
	162	-	160	200	34	310	5	230	65	60	40	12	43	71
	162	-	160	200	11	360	5	270	75	70	50	14	53.5	83
	186	-	179	250	28.5	250	4	180	55	50	32	10	35	60
	186	-	179	250	34	310	5	230	65	60	40	12	43	71
	186	-	179	250	40	360	5	270	75	70	50	14	53.5	83
	186	-	179	250	34	310	5	230	65	60	40	12	43	71
	186	-	179	250	40	360	5	270	75	70	50	14	53.5	83

Note:

2. Eyeplates will be attached to the models of #40 (except for 0.75kW type) or #50 frame.

3. For the detailed dimensions of output shaft, see page 72.

4. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.

5. For the dimensions of the terminal box, see page 18.

Dimensions

Parallel Shaft Type 0.1kW~1.5kW

3 Phase

G3 Series (Small Flange Mount)

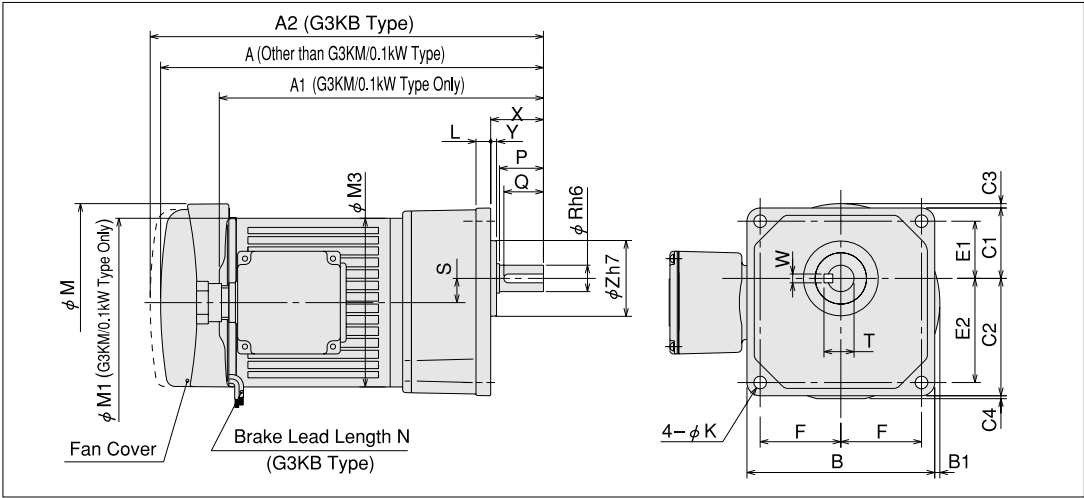


Figure 28. G3KM / G3KB

Motor Capacity	Frame Number	Designation	Fig.	A	A1	A2	B	B1	C1	C2	C3	C4	E1
0.1kW	18	G3KM/B-18-5~50-T010A	28	—	221	261	128	3.5 ♣	48	80	3 ♣	—	39
	22	G3KM/B-22-60~200-T010A	28	—	247	287	140	—	51	89	—	—	42
	28	G3KM/B-28-300~450-T010A	29	—	316	356	164	—	58.5	105.5	◆	—	47.5
	32	G3KM/B-32-600~1200-T010A	29	—	335	375	198	—	71.5	126.5	—	—	58.5
0.2kW	18	G3KM/B-18-5~25-T020A	28	267	—	284	128	3.5	48	80	3	1	39
	22	G3KM/B-22-30~100-T020A	28	293	—	310	140	—	51	89	—	—	42
	28	G3KM/B-28-100~200-T020A	28	306	—	323	164	—	58.5	105.5	—	—	47.5
	32	G3KM/B-32-300~450-T020A	29	401	—	418	198	—	71.5	126.5	1.5	—	58.5
0.4kW	22	G3KM/B-22-5~25-T040A	28	314	—	333.5	140	0.5	51	89	0.5	—	42
	28	G3KM/B-28-30~100-T040A	28	330	—	349.5	164	—	58.5	105.5	—	—	47.5
	32	G3KM/B-32-100~200-T040A	28	349	—	368.5	198	—	71.5	126.5	—	—	58.5
0.75kW	28	G3KM/B-28-5~25-075	28	350.5	—	357.5	164	—	58.5	105.5	—	—	47.5
	32	G3KM/B-32-30~100-075	28	379.5	—	386.5	198	—	71.5	126.5	—	—	58.5
1.5kW	32	G3KM/B-32-5~25-150	28	420.5	—	441	198	—	71.5	126.5	—	—	58.5

Note:
♣. M1 is for G3KM/0.1kW type model since the fan cover is not attached.
M for G3KB/0.1kW type model.
♣. Only for G3KB type models.
◆. C3 is “3” in G3KM, “13” in G3KB type models.
1. All dimensions are in millimeters.

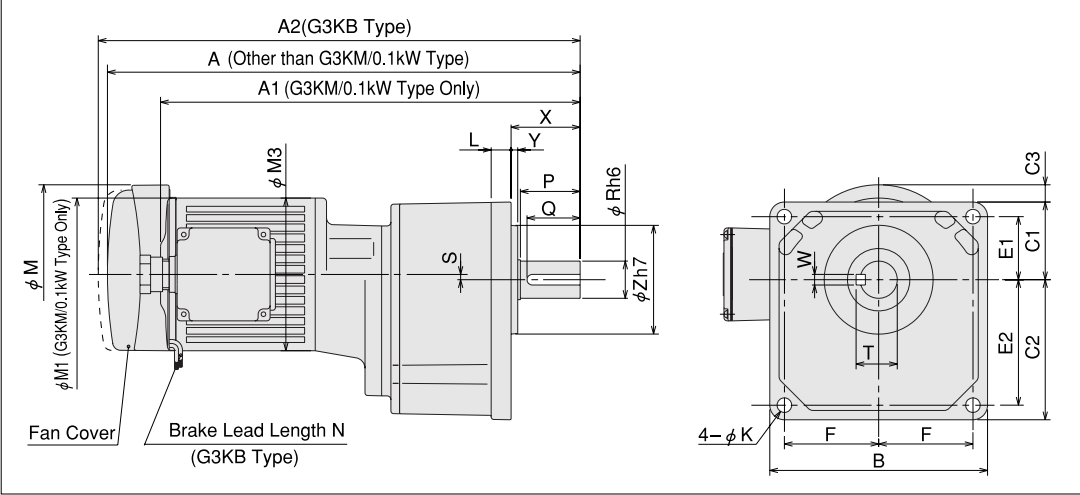


Figure 29. G3KM / G3KB

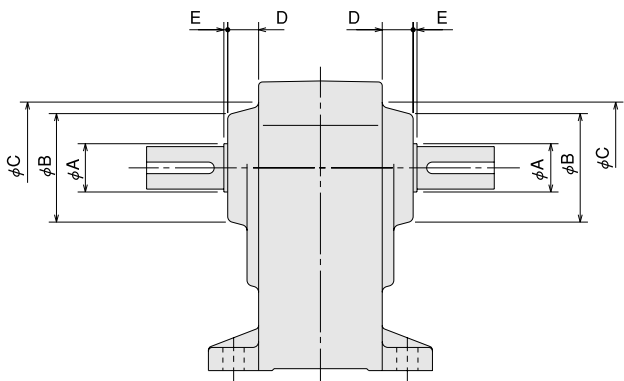
	E2	F	K	L	M	M1	M3	N	S	U	Y	Z	Dimensions of Output Shaft					
													P	Q	R	W	T	X
	71	55	8.6	10	135 ♠	115 ♠	115	200	16.5	—	4	50	30	27	18	6	20.5	36
	80	61	8.6	12	135 ♠	115 ♠	115	200	19	—	5	60	40	35	22	6	24.5	47
	94.5	71	11	15	135 ♠	115 ♠	115	200	4	—	5	80	45	40	28	8	31	52
	113.5	86	13	15	135 ♠	115 ♠	115	200	-1	—	5	88	55	50	32	10	35	63
	71	55	8.6	10	135	—	115	200	16.5	—	4	50	30	27	18	6	20.5	36
	80	61	8.6	12	135	—	115	200	19	—	5	60	40	35	22	6	24.5	47
	94.5	71	11	15	135	—	115	200	23.5	—	5	80	45	40	28	8	31	52
	113.5	86	13	15	135	—	115	200	5.5	—	5	88	55	50	32	10	35	63
	80	61	8.6	12	141	—	128	200	19	—	5	60	40	35	22	6	24.5	47
	94.5	71	11	15	141	—	128	200	23.5	—	5	80	45	40	28	8	31	52
	113.5	86	13	15	141	—	128	200	28.5	—	5	88	55	50	32	10	35	63
	94.5	71	11	15	162	—	160	200	23.5	—	5	80	45	40	28	8	31	52
	113.5	86	13	15	162	—	160	200	28.5	—	5	88	55	50	32	10	35	63
	113.5	86	13	15	186	—	179	250	28.5	—	5	88	55	50	32	10	35	63

- Note:
2. Eyeplates will be attached to the models of #40 (except for 0.75kW type) .
 3. For the detailed dimensions of output shaft, see page 72.
 4. Above diagrams illustrate the dimensions of gearmotor with A-type terminal box.
 5. For the dimensions of the terminal box, see page 18.

Dimensions of Output Shaft

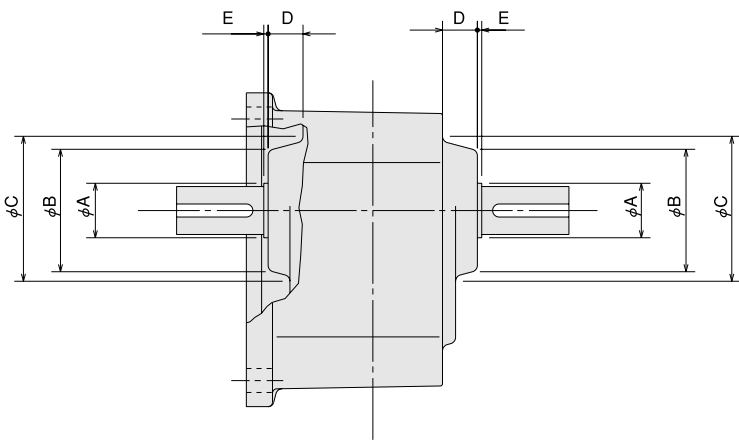
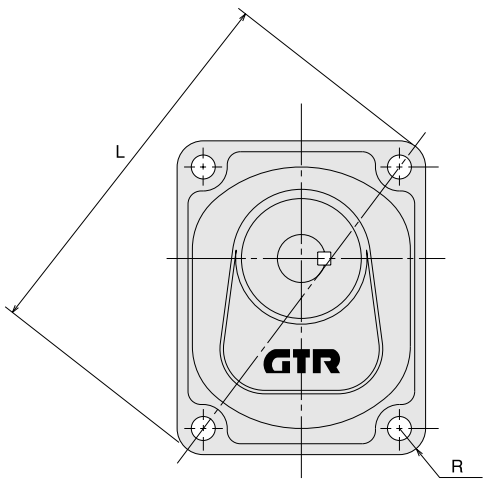
H2 Series

Dimensions around Output Shaft of H2L



Type-Frame Number	(mm)				
	A	B	C	D	E
H2L-22	25	55	63.5	16	2
H2L-28	30	67	76	16	2
H2L-32	35	78	88	17	3
H2L-40	45	92	104	21	2
H2L-50	55	110	122	22	3

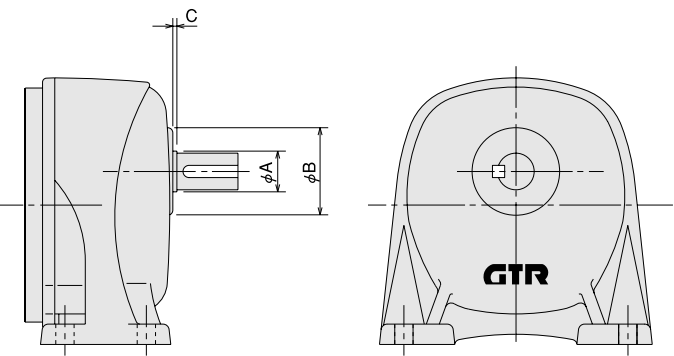
Dimensions around Output Shaft of H2F



Type-Frame Number	(mm)						
	A	B	C	D	E	R	L
H2F-22	25	55	63.5	16	2	12	174

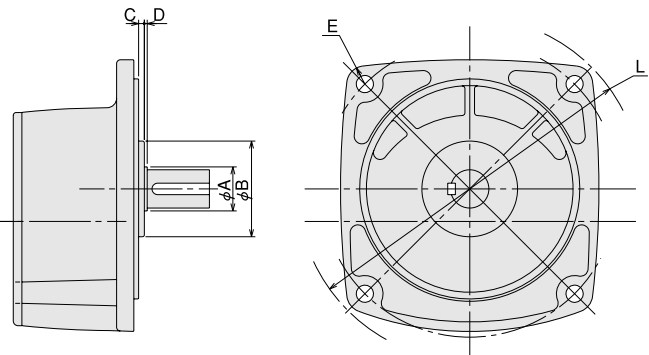
G3 Series

Dimensions around Output Shaft of G3L



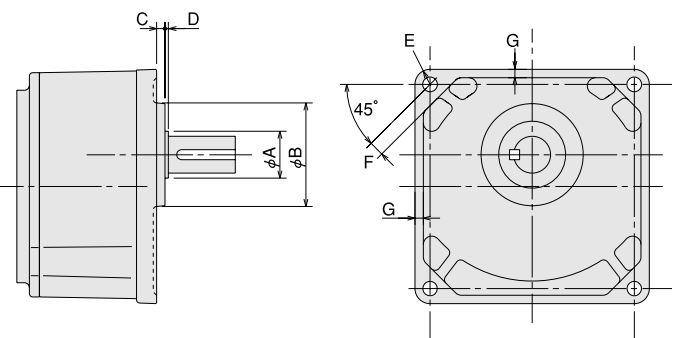
Type-Frame Number	A	B	C
G3L-18	20	43	2
G3L-22	24	50	2
G3L-28	30	60	2
G3L-32	34	68	3
G3L-40	42	90	3
G3L-50	53	105	3

Dimensions around Output Shaft of G3F



Type-Frame Number	A	B	C	D	E	L
G3F-18	20	50	0	2	14	φ 198
G3F-22	24	60	+1	2	12.5	φ 214
G3F-28	30	80	-1	2	12.5	φ 214
G3F-32	34	88	-2	3	15	φ 282
G3F-40	42	100	-2	3	19	φ 350
G3F-50	53	120	0	3	20	φ 412

Dimensions around Output Shaft of G3K



Type-Frame Number	A	B	C	D	E	F	G
G3K-18	20	50h7	4	2	9	9	5
G3K-22	24	60h7	5	2	9	9	5
G3K-28	30	80h7	5	2	11	11	7
G3K-32	34	88h7	5	3	13	13	8

