



Spec Table 1.1

Specifications						Dimensional Drawings Page 19														
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Motor						Brakemotor								
						1 Phase Std		3 Phase Std		3 Phase IP-65		1 Phase Std		3 Phase Std		3 Phase IP-65				
						Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange			
1/8 Hp	18	5	360	22.5	132															
		10	180	44	198															
		15	120	67	221															
		20	90	87	265	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	
		25	72	113	287															
		30	60	130	309															
		40	45	173	331															
	50	36	217	353																
	22	60	30	261	485															
		80	22.5	346	551															
		100	18	432	551	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	Dwg 1.1	Dwg 1.3	
		120	15	519	551															
		160	11.2	691	551															
	28	200	9	864	551															
		300	6	1155	772	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	
		375	4.8	1444	772															
	32	450	4	1733	772															
		600	3	2311	1323	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	Dwg 1.2	Dwg 1.4	
750		2.4	2888	1323																
900		2	3466	1323																
		1200	1.5	3819	1323															

Notes:

1. Motor and brakemotor electrical data shown on Page 10 Table 1.1 (3 Phase) and Page 11 Table 1.2 (1 Phase).
2. Brake electrical data shown on Pages 12~14.
3. Brother 3 Phase gearmotors are suitable for use with a VFD. See Page 17 for details.
4. See Page 15 for terminal box type or lead wire dimensional details.

Model Number for Ordering

G3	L	18	N	005	-	B	M	H	4	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	18 22 28 32	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: IP-44 Motor B: IP-44 Brakemotor J: IP-44 Brakemotor w/ manual release WM: IP-65 Motor WB: IP-65 Brakemotor	H: 1/8 Hp	1: 115V, 60Hz, 1ph 4: 208/230V/460, 60Hz, 3ph 5: 220V, 60Hz, 1ph 6: 230V, 60Hz, 1ph 7: OEM Spec. 1ph 8: OEM Spec. 3ph Special Voltages Fig 1.3, Pg 10 Fig 1.4. Pg 10	A: Die Cast IP-44 N: Leads, (4.5 inch) E: Die Cast IP-65 Note 4 (above)	Blank: Standard Type X: Special Spec See Special Specs Below

CAD Drawings

Go to [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com) and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

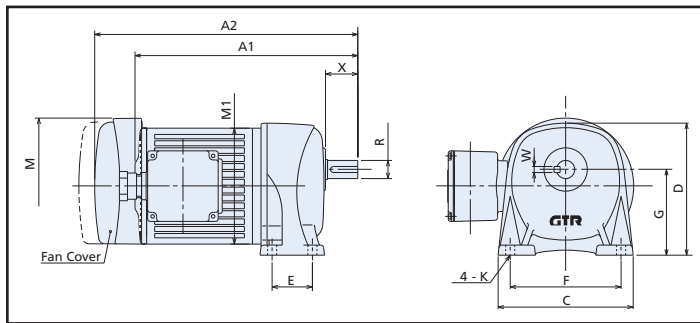
Special Specs

Notes:

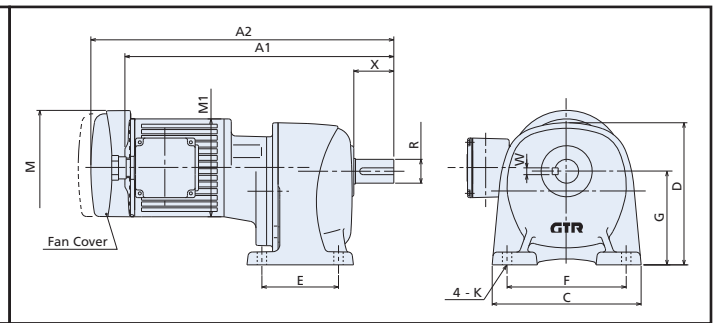
1. Lead Wire or Terminal Box location: specify the code from Page 16, Fig 1.24A on your purchase order.
2. Special Voltage: specify the Voltage/Frequency from Page 10, Fig 1.3 (3 Phase) or Fig 1.4 (1 Phase) on your purchase order.
3. For any other special OEM requirement, please consult Brother.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M1 (TENV) (Motor)	M (TEFC) (Brake)	C	D	E	F	G	K	R	W	X	Motor Wt	Brake- motor Wt
18	3 Phase Std	1.1	8.70	10.28	4.53	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	13.25	16.5
22		1.1	9.72	11.30	4.53	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	15.5	19
28		1.2	12.44	14.02	4.53	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	22	25.5
32		1.2	13.19	14.76	4.53	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	29	32
18	3 Phase IP-65	1.1	8.70	10.73	4.53	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	13.25	16.5
22		1.1	9.72	11.75	4.53	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	15.5	19
28		1.2	12.44	14.45	4.53	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	22	25.5
32		1.2	13.19	15.22	4.53	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	29	32
18	1 Phase Std	1.1	9.92	10.28	n/a	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	13.25	16.5
22		1.1	10.95	11.30	n/a	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	15.5	19
28		1.2	13.67	14.02	n/a	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	22	25.5
32		1.2	14.41	14.76	n/a	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	29	32

Dwg. 1.1



Dwg. 1.2

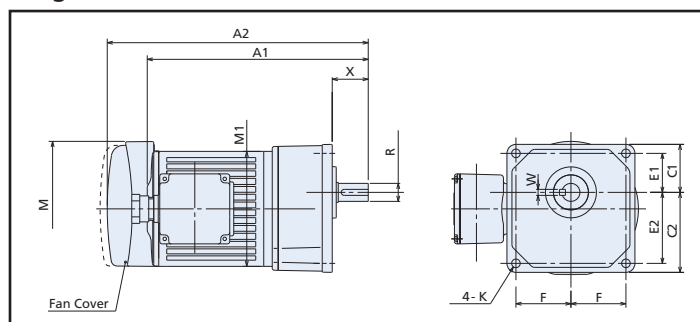


Note: Terminal box or lead wire dim see Page 15.

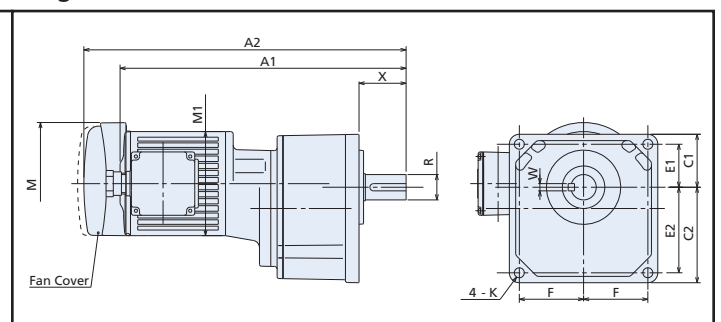
Note: Terminal box or lead wire dim see Page 15.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M1 (TENV) (Motor)	M (TEFC) (Brake)	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake- motor Wt
18	3 Phase Std	1.3	8.70	10.28	4.53	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	14.25	17.75
22		1.3	9.72	11.30	4.53	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	16.5	20
28		1.4	12.44	14.02	4.53	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	23.25	26.5
32		1.4	13.19	14.76	4.53	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	30	33
18	3 Phase IP-65	1.3	8.70	10.73	4.53	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	14.25	17.75
22		1.3	9.72	11.75	4.53	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	16.5	20
28		1.4	12.44	14.45	4.53	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	23.25	26.5
32		1.4	13.19	15.22	4.53	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	30	33
18	1 Phase Std	1.3	9.92	10.27	n/a	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	14.25	17.75
22		1.3	10.95	11.30	n/a	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	16.5	20
28		1.4	13.67	14.02	n/a	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	23.25	26.5
32		1.4	14.41	14.76	n/a	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	30	33

Dwg. 1.3



Dwg. 1.4



Note: Terminal box or lead wire dim see Page 15.

Note: Terminal box or lead wire dim see Page 15.

Notes/Disclaimer:

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2. The drawings on this page are for rough sizing only and may not be visually accurate in all aspects. Please download the actual specification drawing from the www or call your Brother salesman or dealer to get a certified print.
3. Prints are available online using the Brother configurator by entering the complete part number. See [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com)



Spec Table 1.2

Specifications						Dimensional Drawings Page 21											
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Motor						Brakemotor					
						1 Phase Std		3 Phase Std		3 Phase IP-65		1 Phase Std		3 Phase Std		3 Phase IP-65	
						Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/4 Hp	18	5	360	45	55	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7
		10	180	89	121												
		15	120	134	176												
		20	90	178	242												
		25	72	223	264												
	22	30	60	268	341	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7
		40	45	346	352												
		50	36	432	363												
		60	30	519	374												
	28	80	22.5	691	385	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7	Dwg 1.5	Dwg 1.7
		100	18	864	572												
		120	15	1037	583												
		160	11.2	1383	605												
	32	200	9	1728	616	Dwg 1.6	Dwg 1.8	Dwg 1.6	Dwg 1.8	Dwg 1.6	Dwg 1.8	Dwg 1.6	Dwg 1.8	Dwg 1.6	Dwg 1.8	Dwg 1.6	Dwg 1.8
		300	6	2311	1587												
		375	4.8	2888	1587												
	40	450	4	3466	1587	Dwg 1.6	n/a	Dwg 1.6	n/a	Dwg 1.6	n/a	Dwg 1.6	n/a	Dwg 1.6	n/a	Dwg 1.6	n/a
		600	3	4621	1587												
		750	2.4	5777	1587												
		900	2	6770	1587												
		1200	1.5	6770	1587												

- Notes:
- Motor and brakemotor electrical data shown on Page 10 Table 1.1 (3 Phase) and Page 11 Table 1.2 (1 Phase).
  - Brake electrical data shown on Pages 12~14.
  - Brother 3 Phase gearmotors are suitable for use with a VFD. See Page 17 for details.
  - See Page 15 for terminal box type or lead wire dimensional details.

Model Number for Ordering

G3	L	18	N	005	-	B	M	K	4	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	18 22 28 32 40	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: IP-44 Motor B: IP-44 Brakemotor J: IP-44 Brakemotor w/ manual release WM: IP-65 Motor WB: IP-65 Brakemotor	K: 1/4 Hp	1: 115V, 60Hz, 1ph 4: 208/230V/460, 60Hz, 3ph 5: 220V, 60Hz, 1ph 6: 230V, 60Hz, 1ph 7: OEM Spec. 1ph 8: OEM Spec. 3ph Special Voltages Fig 1.3, Pg 10 Fig 1.4. Pg 10	A: Die Cast IP-44 N: Leads, (4.5 inch) E: Die Cast IP-65	Blank: Standard Type X: Special Spec See Special Specs Below

CAD Drawings

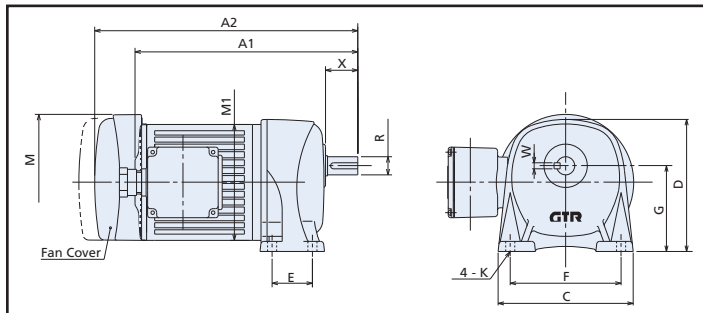
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Special Specs

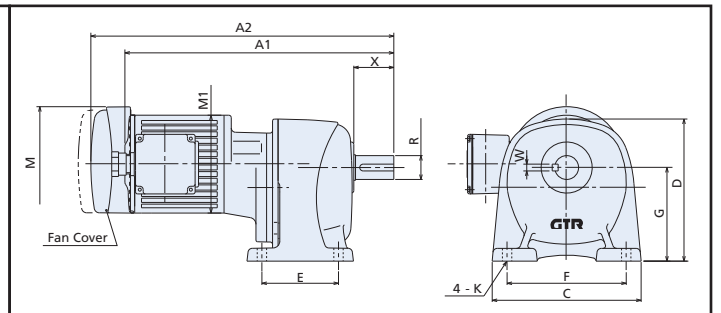
- Notes:
- Lead Wire or Terminal Box location: specify the code from Page 16, Fig 1.24A on your purchase order.
  - Special Voltage: specify the Voltage/Frequency from Page 10, Fig 1.3 (3 Phase) or Fig 1.4 (1 Phase) on your purchase order.
  - For any other special OEM requirement, please consult Brother.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M	C	D	E	F	G	K	R	W	X	Motor Wt	Brake- motor Wt
18	3 Phase Std	1.5	10.51	11.18	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	14.25	17.5
22		1.5	11.54	12.20	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	16.5	20
28		1.5	12.05	12.72	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	21	24.25
32		1.6	15.79	16.46	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	30	33
40		1.6	16.65	17.32	5.31	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	44	47.5
18	3 Phase IP-65	1.5	10.51	12.46	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	14.25	17.5
22		1.5	11.54	13.48	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	16.5	20
28		1.5	12.05	13.99	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	21	24.25
32		1.6	15.79	17.73	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	30	33
40		1.6	16.65	18.60	5.31	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	44	47.5
18	1 Phase Std (Note)	1.5	12.48	13.15	5.31	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	18.75	22
22		1.5	13.50	14.17	5.31	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	21	24.25
28		1.5	14.02	14.69	5.31	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	25.5	28.75
32		1.6	17.76	18.43	5.31	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	34.25	37.5
40		1.6	18.62	19.29	5.31	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	48.5	52

Dwg. 1.5



Dwg. 1.6



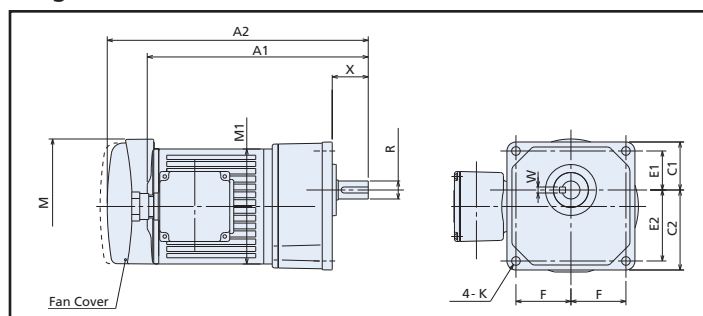
Note: Terminal box or lead wire dim see Page 15.

Note: 1 Phase Std motors have a capacitor mounted, see Page 11, Fig. 1.9.

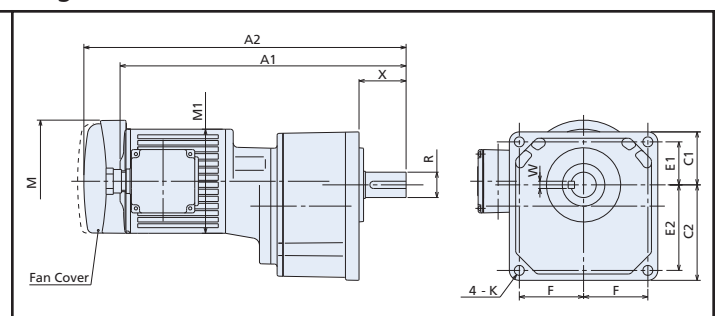
Note: Terminal box or lead wire dim see Page 15.

Frame	Motor/ Brake- motor	Dwg	A1 (motor)	A2 (Brake)	M	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake- motor Wt
18	3 Phase Std	1.7	10.51	11.18	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	15.5	19
22		1.7	11.54	12.20	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	17.5	21
28		1.7	12.05	12.72	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	22	25.5
32		1.8	15.79	16.46	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	31	34.25
18	3 Phase IP-65	1.7	10.51	12.46	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	15.5	19
22		1.7	11.54	13.48	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	17.5	21
28		1.7	12.05	14.00	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	22	25.5
32		1.8	15.79	17.74	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	31	34.25
18	1 Phase Std (Note)	1.7	12.48	13.15	5.31	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	15.5	19
22		1.7	13.50	14.17	5.31	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	17.5	21
28		1.7	14.02	14.69	5.31	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	22	25.5
32		1.8	17.76	18.43	5.31	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	31	34.25

Dwg. 1.7



Dwg. 1.8



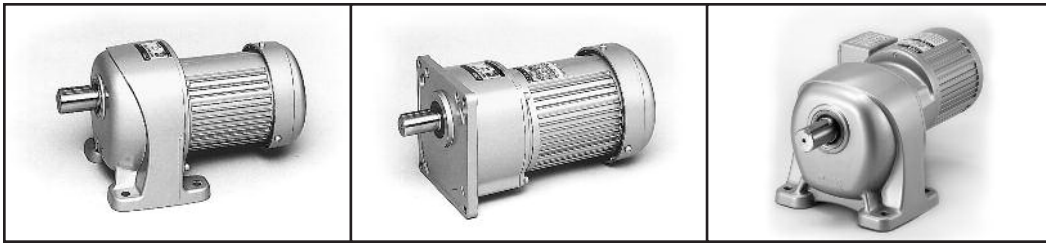
Note: Terminal box or lead wire dim see Page 15.

Note: 1 Phase Std motors have a capacitor mounted, see Page 11, Fig. 1.9.

Note: Terminal box or lead wire dim see Page 15.

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3. Prints are available online using the Brother configurator by entering the complete part number. See [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com)



Spec Table 1.3

Specifications						Dimensional Drawings Page 23											
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Motor						Brakemotor					
						1 Phase Std		3 Phase Std		3 Phase IP-65		1 Phase Std		3 Phase Std		3 Phase IP-65	
						Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/2 Hp	22	5	360	89	88	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11
		10	180	178	176												
		15	120	268	242												
		20	90	357	308												
		25	72	446	330												
	28	30	60	535	484	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11
		40	45	691	506												
		50	36	864	528												
		60	30	1037	550												
	32	80	22.5	1383	572	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11	Dwg 1.9	Dwg 1.11
		100	18	1728	1030												
		120	15	2074	1060												
		160	11.2	2765	1120												
	40	200	9	3457	1140	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a
		300	6	4621	1587												
		375	4.8	5777	1587												
50	450	4	6770	1587	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	Dwg 1.10	n/a	
	600	3	9243	2205													
	750	2.4	10850	2205													
	900	2	10850	2205													
		1200	1.5	10850	2205												

- Notes:
- Motor and brakemotor electrical data shown on Page 10 Table 1.1 (3 Phase) and Page 11 Table 1.2 (1 Phase).
  - Brake electrical data shown on Pages 12~14.
  - Brother 3 Phase gearmotors are suitable for use with a VFD. See Page 17 for details.
  - See Page 15 for terminal box type or lead wire dimensional details.

Model Number for Ordering

G3	L	22	N	005	-	B	M	L	4	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	22 28 32 40 50	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: IP-44 Motor B: IP-44 Brakemotor J: IP-44 Brakemotor w/ manual release WM: IP-65 Motor WB: IP-65 Brakemotor	L: 1/2 Hp	1: 115V, 60Hz, 1ph 4: 208/230V/460, 60Hz, 3ph 5: 220V, 60Hz, 1ph 6: 230V, 60Hz, 1ph 7: OEM Spec. 1ph 8: OEM Spec. 3ph Special Voltages Fig 1.3, Pg 10 Fig 1.4. Pg 10	A: Die Cast IP-44, (3 Ph only) N: Leads, (4.5 inch) E: Die Cast IP-65 S: Steel, (1 Ph only)	Blank: Standard Type X: Special Spec See Special Specs Below

CAD Drawings

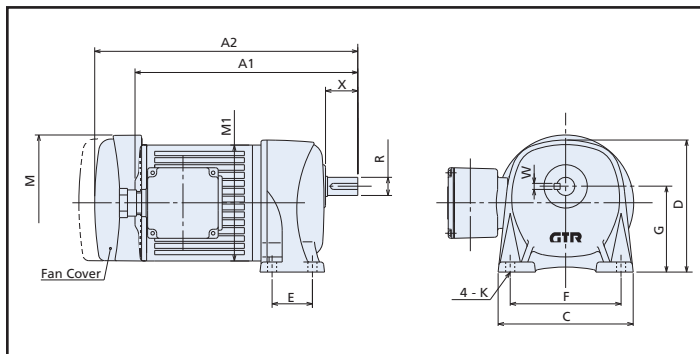
Go to [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com) and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

Special Specs

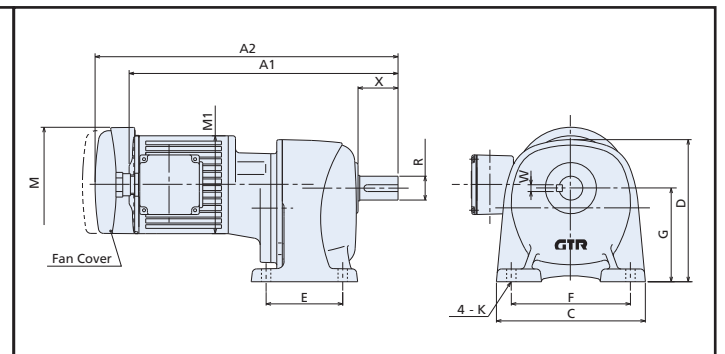
- Notes:
- Lead Wire or Terminal Box location: specify the code from Page 16, Fig 1.24A on your purchase order.
  - Special Voltage: specify the Voltage/Frequency from Page 10, Fig 1.3 (3 Phase) or Fig 1.4 (1 Phase) on your purchase order.
  - For any other special OEM requirement, please consult Brother.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M	C	D	E	F	G	K	R	W	X	Motor Wt	Brake- motor Wt
22	3 Phase Std	1.9	12.36	13.13	5.55	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	21	24.25
28			12.99	13.76	5.55	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	25.5	29
32			13.74	14.51	5.55	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	32	35.25
40		1.10	17.99	18.76	5.55	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	51	54
50			19.09	19.86	5.55	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	116	119
22	3 Phase IP-65	1.9	12.36	14.59	5.55	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	21	24.25
28			12.99	15.22	5.55	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	25.5	29
32			13.74	15.96	5.55	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	32	35.25
40		1.10	17.99	20.22	5.55	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	51	54
50			19.09	21.32	5.55	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	116	119
22	1 Phase Std (Note)	1.9	15.39	15.67	6.38	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	33	38.5
28			16.02	16.30	6.38	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	37.5	43
32			16.77	17.05	6.38	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	44	49.75
40		1.10	21.02	21.30	6.38	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	63	68.5
50			22.13	22.40	6.38	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	128	133.5

Dwg. 1.9



Dwg. 1.10



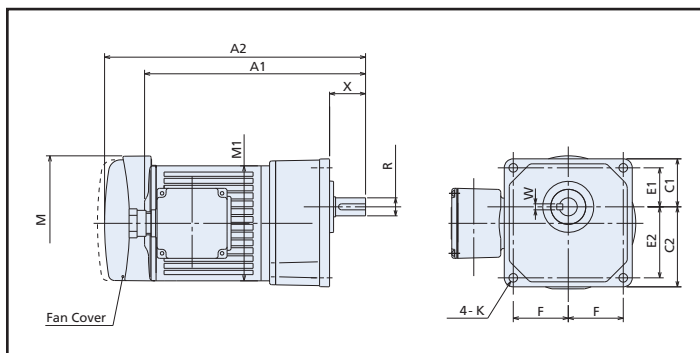
Note: Terminal box or lead wire dim see Page 15.

Note: 1 Phase Std motors have a capacitor mounted, see Page 11, Fig. 1.9.

Note: Terminal box or lead wire dim see Page 15.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake- motor Wt
22	3 phase Std	1.11	12.36	13.13	5.55	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	22	25.5
28			12.99	13.76	5.55	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	26.5	30
32			13.74	14.51	5.55	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	33	36.5
22	3 Phase IP-65	1.11	12.36	14.59	5.55	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	22	25.5
28			12.99	15.22	5.55	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	26.5	29.75
32			13.74	15.96	5.55	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	33	36.5
22	1 Phase Std (Note)	1.11	15.39	15.67	6.38	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	34	39.75
28			16.02	16.30	6.38	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	38.75	44
32			16.77	17.05	6.38	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	45.25	50.75

Dwg. 1.11

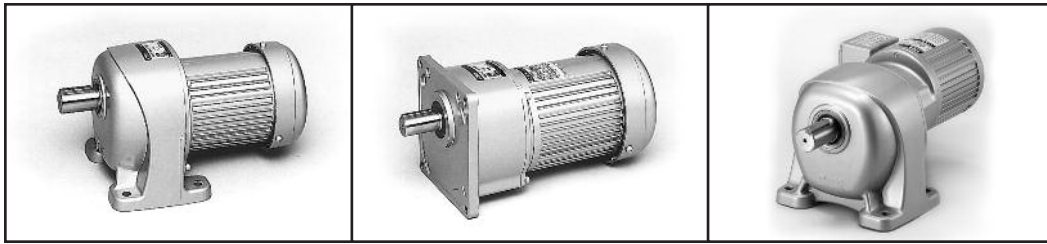


Note: Terminal box or lead wire dim see Page 15.

Note: 1 Phase Std motors have a capacitor mounted, see Page 11, Fig. 1.9.

Notes/Disclaimer:

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2. The drawings on this page are for rough sizing only and may not be visually accurate in all aspects. Please download the actual specification drawing from the www or call your Brother salesman or dealer to get a certified print.
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Spec Table 1.4

Specifications						Dimensional Drawings Page 25							
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Motor				Brakemotor			
						3 Phase Std Foot	3 Phase IP-65 Flange	3 Phase Std Foot	3 Phase IP-65 Flange				
1 Hp	28	5	360	167	110	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14
		10	180	335	220								
		15	120	502	308								
		20	90	669	396								
		25	72	837	440								
	32	30	60	1004	891	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14	Dwg 1.12	Dwg 1.14
		40	45	1296	935								
		50	36	1620	968								
		60	30	1944	990								
		80	22.5	2593	1010								
	40	100	18	3241	1450	Dwg 1.12	n/a	Dwg 1.12	n/a	Dwg 1.12	n/a	Dwg 1.12	n/a
		120	15	3889	1480								
		160	11.2	5185	1550								
		200	9	6481	1580								
50	300	6	8665	2205	Dwg 1.13	n/a	Dwg 1.13	n/a	Dwg 1.13	n/a	Dwg 1.13	n/a	
	375	4.8	10832	2205									
	450	4	10850	2205									

- Notes:
1. Motor and brakemotor electrical data shown on Page 10 Table 1.1 (3 Phase).
  2. Brake electrical data shown on Pages 12~14.
  3. Brother 3 Phase gearmotors are suitable for use with a VFD. See Page 17 for details.
  4. See Page 15 for terminal box type or lead wire dimensional details.

Model Number for Ordering

G3	L	28	N	005	-	B	M	M	4	S	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	28 32 40 50	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 450 : 450:1		B: UL/CSA	M: IP-44 Motor B: IP-44 Brakemotor J: IP-44 Brakemotor w/ manual release WM: IP-65 Motor WB: IP-65 Brakemotor	M: 1 Hp	4: 208/230V/460, 60Hz, 3ph 8: OEM Spec. 3ph Special Voltages Fig 1.3, Pg 10	S: Steel IP-44 N: Leads, (4.5 inch) E: Die Cast IP-65	Blank: Standard Type X: Special Spec See Special Specs Below

CAD Drawings

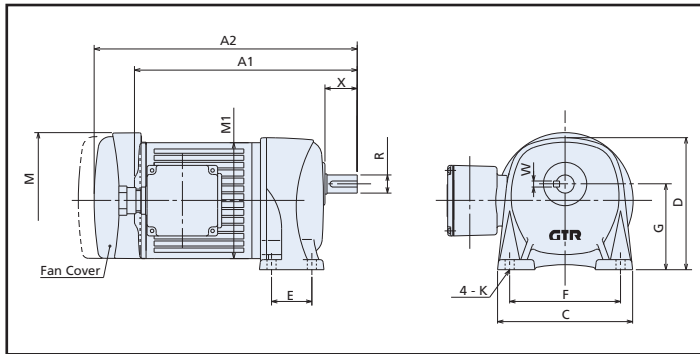
Go to [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com) and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

Special Specs

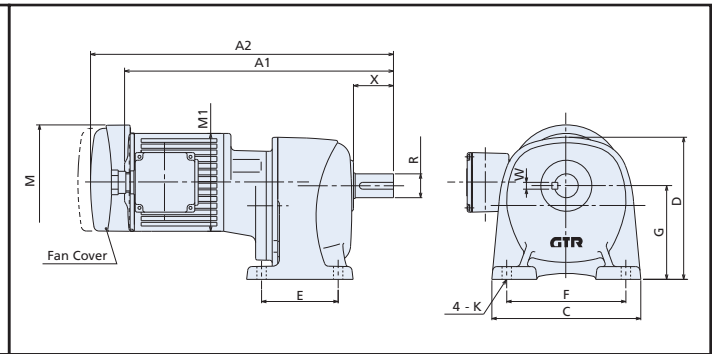
- Notes:
1. Lead Wire or Terminal Box location: specify the code from Page 16, Fig 1.24A on your purchase order.
  2. Special Voltage: specify the Voltage/Frequency from Page 10, Fig 1.3 (3 Phase) on your purchase order.
  3. For any other special OEM requirement, please consult Brother.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M	C	D	E	F	G	K	R	W	X	Motor Wt	Brake- motor Wt
28	3 Phase Std	1.12	13.80	14.07	6.38	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	33	38.5
32			14.94	15.22	6.38	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	41	46.25
40			15.81	16.08	6.38	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	55	60.5
50		1.13	20.30	20.57	6.38	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	124.5	130
28	3 Phase IP-65	1.12	13.8	16.48	6.38	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	33	38.5
32			14.94	17.62	6.38	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	41	46.5
40			15.81	18.48	6.38	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	55	60.75
50		1.13	20.30	22.97	6.38	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	124.5	130

**Dwg. 1.12**



**Dwg. 1.13**

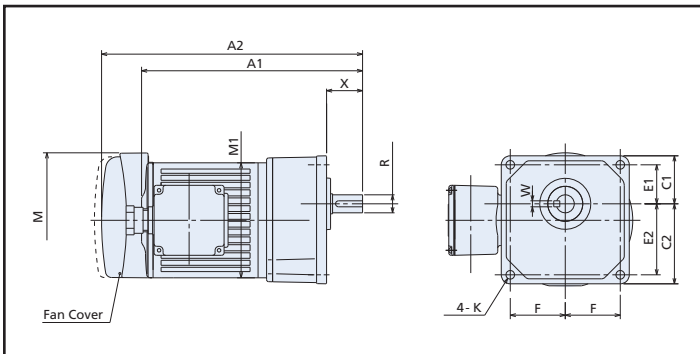


Note: Terminal box or lead wire dim see Page 15.

Note: Terminal box or lead wire dim see Page 15.

Frame	Motor/ Brake- motor	Dwg	A1 (Motor)	A2 (Brake)	M	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake- motor Wt
28	3 Phase Std	1.14	13.80	14.07	6.38	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	34.25	40
32			14.94	15.22	6.38	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	42	47.5
28	3 Phase IP-65	1.14	13.8	16.48	6.38	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	34.25	40
32			14.94	17.62	6.38	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	42	47.5

**Dwg. 1.14**

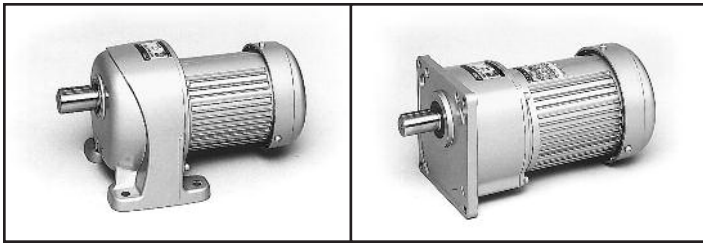


Note: Terminal box or lead wire dim see Page 15.

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2. The drawings on this page are for rough sizing only and may not be visually accurate in all aspects. Please download the actual specification drawing from the www or call your Brother salesman or dealer to get a certified print.
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Spec Table 1.5

Specifications						Dimensional Drawings Page 27							
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Motor				Brakemotor			
						3 Phase Std Foot	Flange	3 Phase IP-65 Foot	Flange	3 Phase Std Foot	Flange	3 Phase IP-65 Foot	Flange
2 Hp	32	5	360	338	397	Dwg 1.15	Dwg 1.16	Dwg 1.15	Dwg 1.16	Dwg 1.15	Dwg 1.16	n/a	n/a
		10	180	668	551								
		15	120	1006	639								
		20	90	1335	728								
		25	72	1673	860								
	40	30	60	2003	1147	Dwg 1.15	n/a	Dwg 1.15	n/a	Dwg 1.15	n/a	n/a	n/a
		40	45	2592	1323								
		50	36	3234	1588								
		60	30	3884	1588								
		80	22.5	5176	1588								
	50	100	18	6476	2205	Dwg 1.15	n/a	Dwg 1.15	n/a	Dwg 1.15	n/a	n/a	n/a
		120	15	7768	2205								
		160	11.2	10317	2205								
		200	9	10838	2205								
3 Hp	40	5	360	494	485	Dwg 1.17	n/a	Dwg 1.17	n/a	Dwg 1.17	n/a	n/a	n/a
		10	180	980	706								
		15	120	1474	794								
		20	90	1959	904								
		25	72	2454	1058								
	50	30	60	2939	1566	Dwg 1.17	n/a	Dwg 1.17	n/a	Dwg 1.17	n/a	n/a	n/a
		40	45	3797	1632								
		50	36	4751	1940								
		60	30	5696	2205								
		80	22.5	7595	2205								
		100	18	9537	2205								

- Notes:
1. Motor and brakemotor electrical data shown on Page 10 Table 1.1 (3 Phase).
  2. Brake electrical data shown on Pages 12~14.
  3. Brother 3 Phase gearmotors are suitable for use with a VFD. See Page 17 for details.
  4. See Page 15 for terminal box type or lead wire dimensional details.

Model Number for Ordering

G3	L	32	N	005	-	B	M	P	4	S	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	32 40 50	N: Common Code	005 : 5:1 030 : 30:1 100 : 100:1		B: UL/CSA	M: IP-44 Motor B: IP-44 Brakemotor J: IP-44 Brakemotor w/ manual release WM: IP-65 Motor	P: 2 Hp R: 3 Hp	4: 208/230V/460, 60Hz, 3ph 8: OEM Spec. 3ph Special Voltages Fig 1.3, Pg 10	S: Steel IP-44 N: Leads, (4.5 inch) E: Die Cast IP-65	Blank: Standard Type X: Special Spec See Special Specs Below

CAD Drawings

Go to [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com) and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

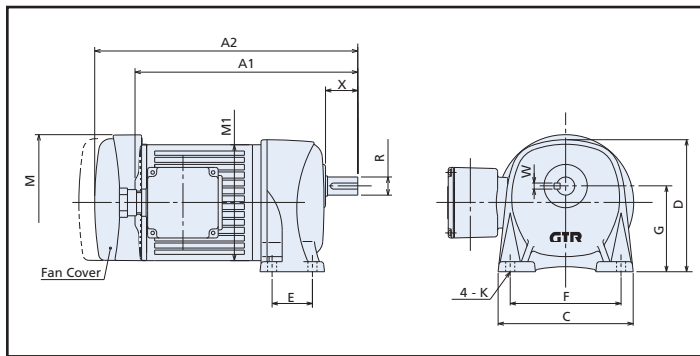
Special Specs

- Notes:
1. Lead Wire or Terminal Box location: specify the code from Page 16, Fig 1.24A on your purchase order.
  2. Special Voltage: specify the Voltage/Frequency from Page 10, Fig 1.3 (3 Phase) on your purchase order.
  3. For any other special OEM requirement, please consult Brother.

Frame	Motor/ Brake-motor	Dwg	A1 (Motor)	A2 (Brake)	M	C	D	E	F	G	K	R	W	X	Motor Wt	Brake-motor Wt
32	3 Phase Std	1.15	16.56	17.36	7.32	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	54	62
40			18.01	18.82	7.32	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	69.5	77
50			19.11	19.92	7.32	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	134.5	142
32	3 Phase IP-65	1.15	16.56	n/a	7.32	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	54	n/a
40			18.01	n/a	7.32	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	69.5	n/a
50			19.11	n/a	7.32	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	134.5	n/a

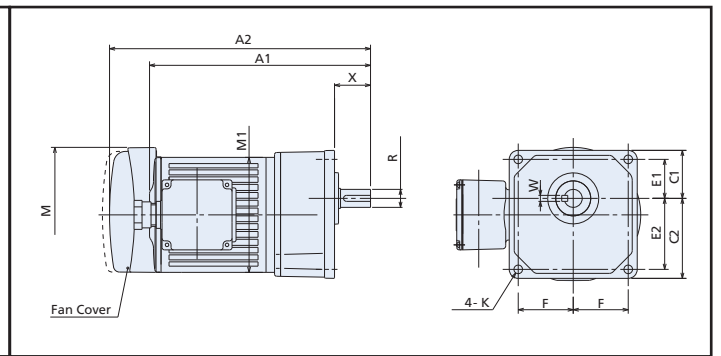
Frame	Motor/ Brake-motor	Dwg	A1 (Motor)	A2 (Brake)	M	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake-motor Wt
32	3 Phase Std	1.16	16.56	17.36	7.32	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	55	63
32	3 Phase IP-65	1.16	16.56	n/a	7.32	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	55	n/a

Dwg. 1.15 (2 Hp)



Note: Terminal box or lead wire dim see Page 15.

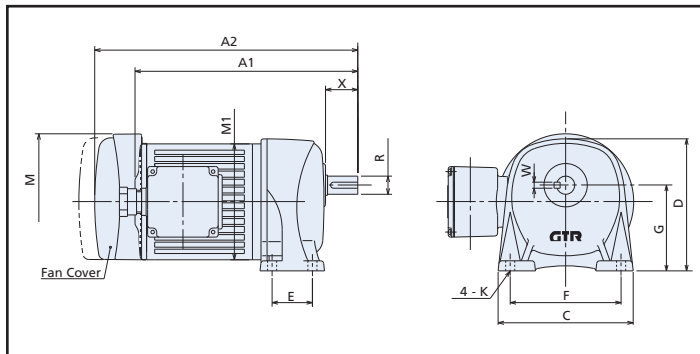
Dwg. 1.16 (2 Hp)



Note: Terminal box or lead wire dim see Page 15.

Frame	Motor/ Brake-motor	Dwg	A1 (Motor)	A2 (Brake)	M	C1	C2	E1	E2	F	K	R	W	X	Motor Wt	Brake-motor Wt
40	3 Phase Std	1.17	18.37	19.17	7.32	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	76	84
50			20.10	20.91	7.32	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	142	150
40	3 Phase IP-65	1.17	18.37	n/a	7.32	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	76	n/a
50			20.10	n/a	7.32	11.42	10.43	6.30	9.06	6.69	0.71	2.0000	0.5000	3.07	142	n/a

Dwg. 1.17 (3 Hp)



Note: Terminal box or lead wire dim see Page 15.

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Spec Table 1.6

Specifications						Dimensional Drawings Page 29			
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange		
1/4 Hp	18	5	360	45	55	Dwg 1.18	Dwg 1.19		
		10	180	89	121				
		15	120	134	176				
		20	90	178	242				
	22	25	72	223	264	Dwg 1.18	Dwg 1.19		
		30	60	268	341				
		40	45	346	352				
		50	36	432	363				
	28	60	30	519	374	Dwg 1.18	Dwg 1.19		
		80	22.5	691	385				
		100	18	864	572				
		120	15	1037	583				
1/2 Hp	22	160	11.2	1383	605	Dwg 1.18	Dwg 1.19		
		200	9	1728	616				
		5	360	89	88			Dwg 1.18	Dwg 1.19
		10	180	178	176				
	15	120	268	242					
	20	90	357	308					
	28	25	72	446	330	Dwg 1.18	Dwg 1.19		
		30	60	535	484				
		40	45	691	506				
		50	36	864	528				
	32	60	30	1037	550	Dwg 1.18	Dwg 1.19		
		80	22.5	1383	572				
100		18	1728	1030					
120		15	2074	1060					
1 Hp	28	160	11.2	2765	1120	Dwg 1.18	Dwg 1.19		
		200	9	3457	1140				
		5	360	167	110			Dwg 1.18	Dwg 1.19
		10	180	335	220				
	15	120	502	308					
	20	90	669	396					
	32	25	72	837	440	Dwg 1.18	Dwg 1.19		
		30	60	1004	891				
		40	45	1296	935				
		50	36	1620	968				
	40	60	30	1944	990	Dwg 1.18	Dwg 1.19		
		80	22.5	2593	1010				
100		18	3241	1450					
120		15	3889	1480					
		160	11.2	5185	1550	Dwg 1.18	Dwg 1.19		
		200	9	6481	1580				



Model Number for Ordering

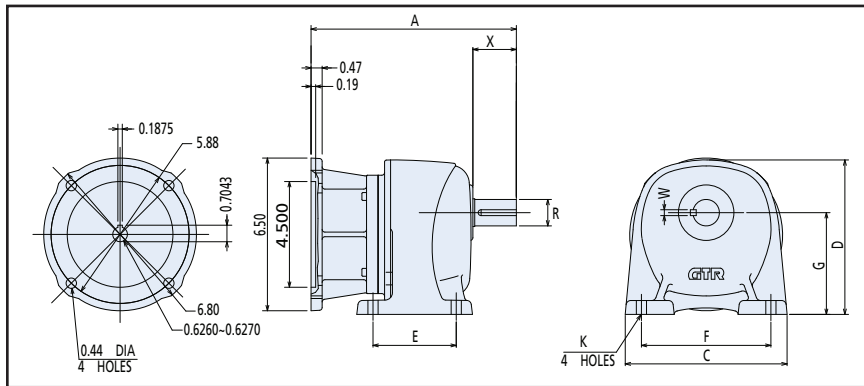
G3	L	18	N	005	-	N	C	K	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Special Spec
G3: G3 Series	L: Foot Mount K: Flange Mount	18 22 28 32 40	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1		N: Common Code (no UL)	C: NEMA 56C Reducer	K: 1/4 Hp L: 1/2 Hp M: 1 Hp	Blank: Standard Type X: Special Spec Special Specs, consult Brother

CAD Drawings

Go to [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com) and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

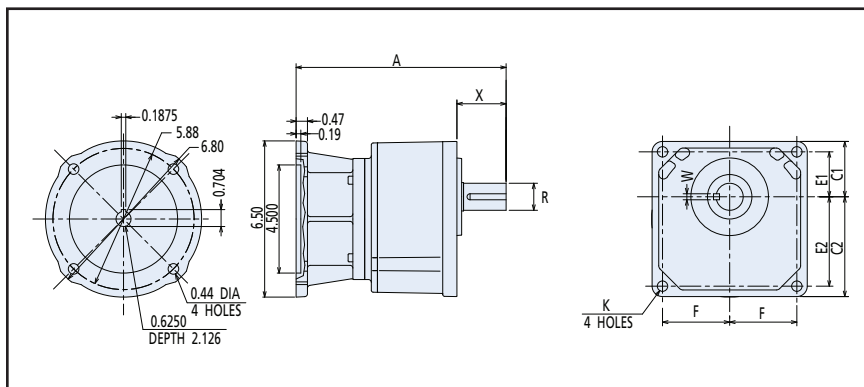
Hp	Frame	Dwg	A	C	D	E	F	G	K	R	W	X	Wt
1/4 Hp	18	1.18	6.97	5.28	5.16	1.57	4.33	3.35	0.35	0.7500	0.1875	1.26	8
	22		7.99	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	10
	28		8.51	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	14
1/2 Hp	22	1.18	8.11	6.06	5.47	2.56	5.12	3.54	0.43	0.8750	0.1875	1.65	10
	28		8.74	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	14
	32		9.49	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	25
1 Hp	28	1.18	8.80	6.89	6.57	3.54	5.51	4.33	0.43	1.1250	0.2500	1.85	14
	32		9.95	8.19	7.80	5.12	6.69	5.12	0.51	1.2500	0.2500	2.28	25
	40		10.81	10.00	9.06	5.91	8.72	5.91	0.59	1.6250	0.3750	2.68	40

Dwg. 1.18



Hp	Frame	Dwg	A	C1	C2	E1	E2	F	K	R	W	X	Wt
1/4 Hp	18	1.19	6.97	1.89	3.15	1.54	2.8	2.17	0.34	0.7500	0.1875	1.38	9
	22		7.99	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	11
	28		8.51	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	15
1/2 Hp	22	1.19	8.11	2.01	3.5	1.65	3.15	2.40	0.34	0.8750	0.1875	1.85	12
	28		8.74	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	16.5
	32		9.49	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	23
1 Hp	28	1.19	8.80	2.30	4.15	1.87	3.72	2.80	0.43	1.1250	0.2500	1.97	15.5
	32		9.95	2.81	4.98	2.30	4.47	3.39	0.51	1.2500	0.2500	2.36	23

Dwg. 1.19



Notes/Disclaimer:

1. Every effort is made to assure the accuracy of the drawings. However, certified prints should be requested for critical applications.
2. The drawings on this page are for rough sizing only and may not be visually accurate in all aspects. Please download the actual specification drawing from the [www](http://www.brother.com) or call your Brother salesman or dealer to get a certified print.
3. Prints are available online using the Brother configurator by entering the complete part number. See [www.BrotherGearmotors.com](http://www.BrotherGearmotors.com)