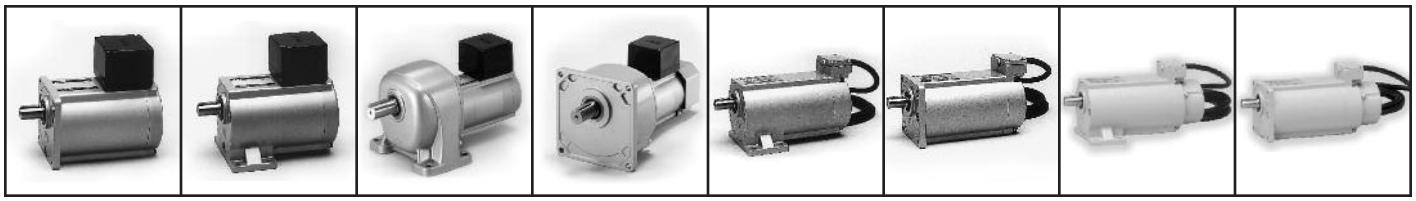

Spec Table 1.0

Specifications						Dimensional Drawing													
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/50	12	5	360	3	22	Dwg 1.2 A	Dwg 1.0 A	Dwg 1.2 A	Dwg 1.0 A	Dwg 1.2 A2	Dwg 1.0 A2	Dwg 1.2 A2	Dwg 1.0 A2	Dwg 1.5 A	Dwg 1.4 A	Dwg 1.5 A	Dwg 1.4 A	Dwg 1.5 A2	Dwg 1.4 A2	Dwg 1.5 A	Dwg 1.4 A
		7.5	240	4	44																
		10	180	6	55																
		15	120	9	77																
		20	90	12	99																
		25	72	14	110																
		30	60	17	121																
		40	45	23	132																
		50	36	29	143																
		60	30	35	154																
		80	23	44	165																
		100	18	55	165																
		120	15	66	176																
		160	11	88	176																
		200	9	110	176																
		240	7.5	132	176																
	22	300	6	148	397	Dwg 1.3 A	Dwg 1.1 A	Dwg 1.3 A	Dwg 1.1 A	Dwg 1.3 A2	Dwg 1.1 A2	Dwg 1.3 A2	Dwg 1.1 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		375	4.8	185	397																
		450	4	222	397																
		600	3	296	397																
		750	2.4	370	397																
		900	2	445	397																
		1200	1.5	593	397																
		1500	1.2	741	397																
		1800	1	868	397																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	L	12	N	101	–	B	M	LC	1	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~240:1) K: Flange Mount (300:1~1800:1)	12 22	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: Motor B: Brakemotor WM: IP-65 Motor WB: IP-65 Brakemotor	LC: 1/50 Hp (15w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11) *No 460V for IP-65	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20 IP-65 Motor N: Cord, 6 ft IP-65 Brakemotor N: Cord, 6 ft	Blank: Standard Type X: Special Spec

CAD Drawings

Go to 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 Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

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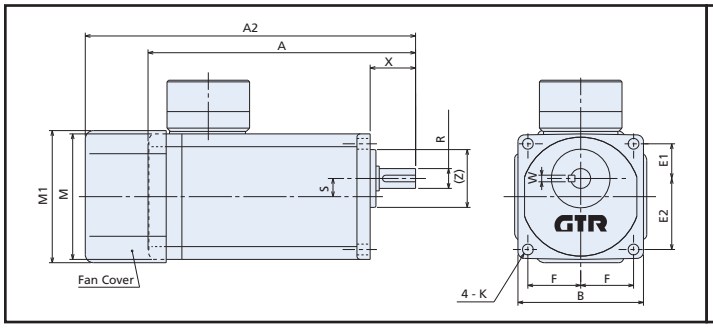
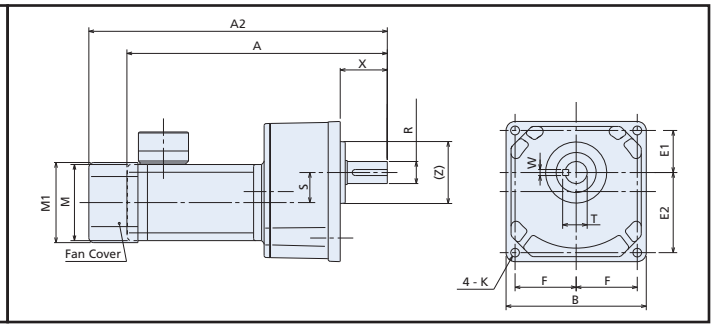
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
12	1.0	6.38	7.87	2.99	0.83	1.69	1.26	0.26	2.99	3.15	0.43	1.4	0.5000	0.1250	1.08	4.5
22	1.1	10.24	11.73	5.51	1.65	3.15	2.4	0.34	2.99	3.15	1.18	2.48	0.8750	0.1875	1.85	11

Dwg 1.0

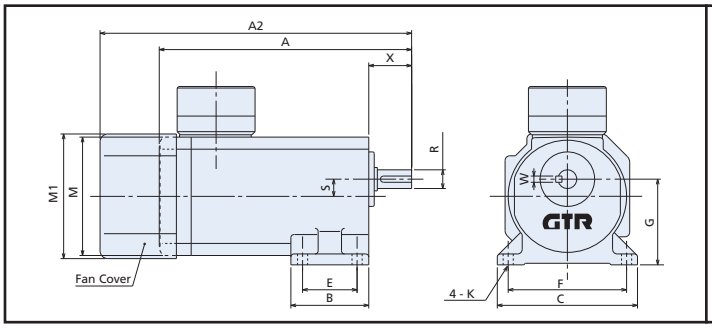


Dwg 1.1

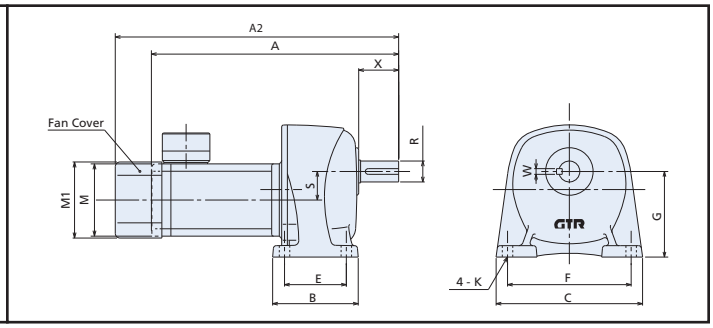


Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
12	1.2	6.38	7.87	1.97	3.54	1.38	2.99	2.17	0.26	2.99	3.15	0.43	0.5000	0.1250	1.08	4.5
22	1.3	10.24	11.73	3.54	6.06	2.56	5.12	3.54	0.43	2.99	3.15	1.18	0.8750	0.1875	1.85	11

Dwg 1.2



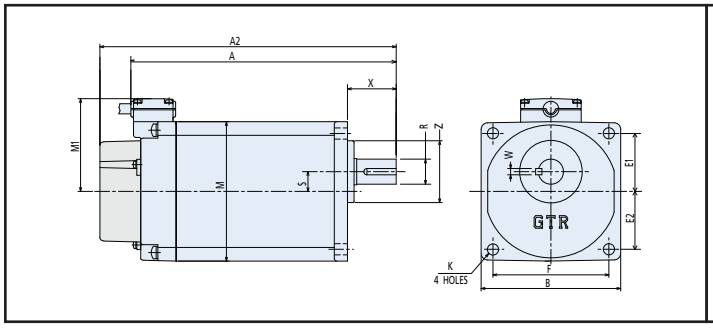
Dwg 1.3



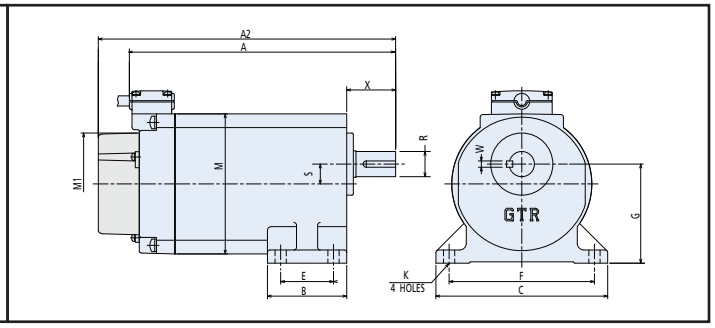
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
12	1.4	6.93	7.80	2.99	0.83	1.69	2.52	0.26	2.99	2.28	0.43	1.4	0.5000	0.1250	1.08	4.5

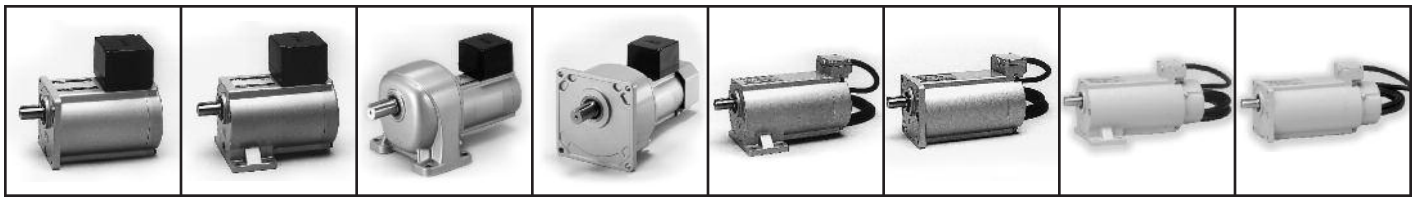
Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
12	1.5	6.93	7.80	1.97	3.54	1.38	2.99	2.17	0.26	2.99	2.28	0.43	0.5000	0.1250	1.08	4.5

Dwg 1.4



Dwg 1.5





Spec Table 1.1

Specifications						Dimensional Drawing															
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/30	12	5	360	5	22	Dwg 1.8 A	Dwg 1.6 A	Dwg 1.8 A	Dwg 1.6 A	Dwg 1.8 A2	Dwg 1.6 A2	Dwg 1.8 A2	Dwg 1.6 A2	Dwg 1.11 A	Dwg 1.10 A	Dwg 1.11 A	Dwg 1.10 A	Dwg 1.11 A2	Dwg 1.10 A2	Dwg 1.11 A2	Dwg 1.10 A2
		7.5	240	7	44																
		10	180	10	55																
		15	120	14	77																
		20	90	19	99																
		25	72	24	110																
		30	60	29	121																
		40	45	39	132																
		50	36	48	143																
		60	30	58	154																
		80	23	73	165																
		100	18	91	165																
		120	15	110	176																
	15	160	11	146	243	Dwg 1.8 A	Dwg 1.6 A	Dwg 1.8 A	Dwg 1.6 A	Dwg 1.8 A2	Dwg 1.6 A2	Dwg 1.8 A2	Dwg 1.6 A2	Dwg 1.11 A	Dwg 1.10 A	Dwg 1.11 A	Dwg 1.10 A	Dwg 1.11 A2	Dwg 1.10 A2	Dwg 1.11 A2	Dwg 1.10 A2
		200	9	183	243																
		240	7.5	220	243																
	22	300	6	247	397	Dwg 1.9 A	Dwg 1.7 A	Dwg 1.9 A	Dwg 1.7 A	Dwg 1.9 A2	Dwg 1.7 A2	Dwg 1.9 A2	Dwg 1.7 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		375	4.8	309	397																
		450	4	370	397																
		600	3	494	397																
		750	2.4	617	397																
		900	2	741	397																
	28	1200	1.5	988	617	Dwg 1.9 A	Dwg 1.7 A	Dwg 1.9 A	Dwg 1.7 A	Dwg 1.9 A2	Dwg 1.7 A2	Dwg 1.9 A2	Dwg 1.7 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		1500	1.2	1235	617																
		1800	1	1476	617																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	L	15	N	120	–	B	M	LD	2	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~240:1) K: Flange Mount (300:1~1800:1)	12 15 22 28	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: Motor B: Brakemotor WM: IP-65 Motor WB: IP-65 Brakemotor	Frame 12, 22 LD: 1/30 Hp (25w) Frame 15,28 RD: 1/30Hp (25w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11) *No 460V for IP-65	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20 IP-65 Motor N: Cord, 6 ft IP-65 Brakemotor N: Cord, 6 ft	Blank: Standard Type X: Special Spec

CAD Drawings

Go to 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 Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

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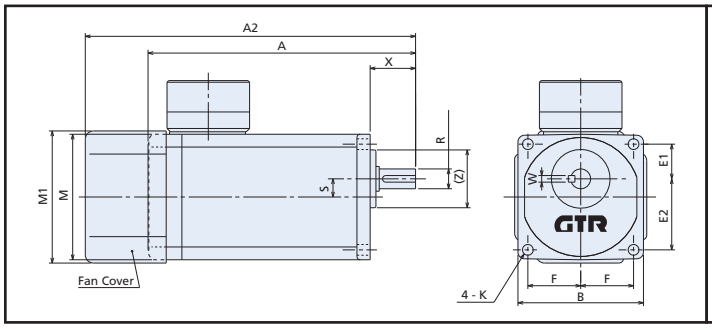
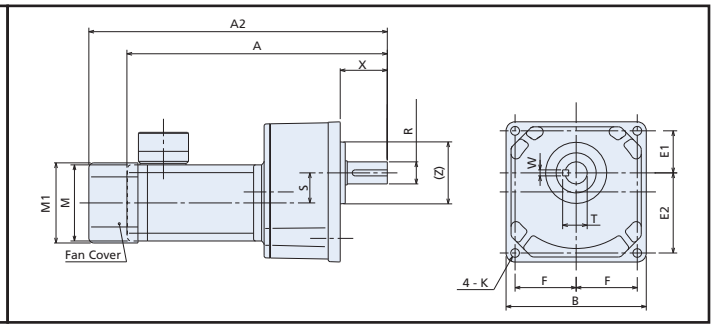
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
12	1.6	6.38	7.87	2.99	0.83	1.69	1.26	0.26	2.99	3.15	0.43	1.4	0.5000	0.1250	1.08	4.5
15	1.6	6.81	8.25	3.54	0.98	2.01	1.50	0.26	3.54	3.70	0.51	1.59	0.6250	0.1875	1.30	7
22	1.7	10.24	11.73	5.51	1.65	3.15	2.40	0.34	2.99	3.15	1.18	2.48	0.8750	0.1875	1.85	11
28	1.7	11.12	12.56	6.46	1.87	3.72	2.80	0.43	3.54	3.70	1.44	3.27	1.1250	0.2500	1.85	15.5

Dwg 1.6

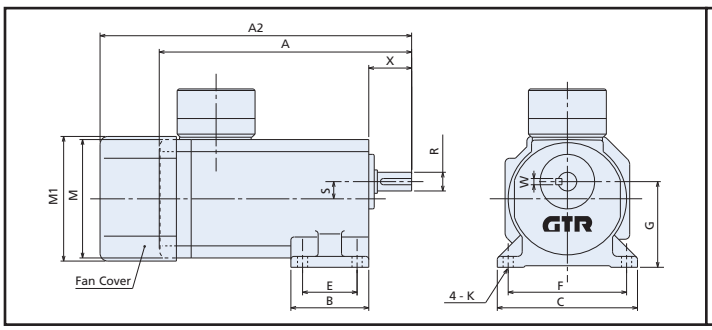


Dwg 1.7

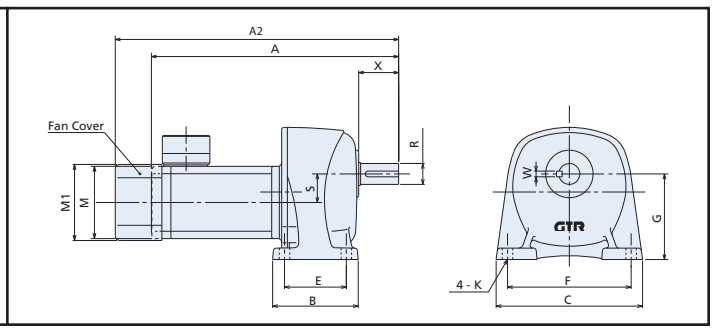


Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
12	1.8	6.38	7.87	1.97	3.54	1.38	2.99	2.17	0.26	2.99	3.15	0.43	0.5000	0.1250	1.08	4.5
15	1.8	6.81	8.25	2.20	4.09	1.57	3.54	2.56	0.26	3.54	3.70	0.51	0.6250	0.1875	1.30	7
22	1.9	10.24	11.73	3.54	6.06	2.56	5.12	3.54	0.43	2.99	3.15	1.18	0.8750	0.1875	1.85	11
28	1.9	11.20	12.56	4.92	6.89	3.54	5.51	4.33	0.43	3.54	3.70	1.44	1.1250	0.2500	1.85	15.5

Dwg 1.8



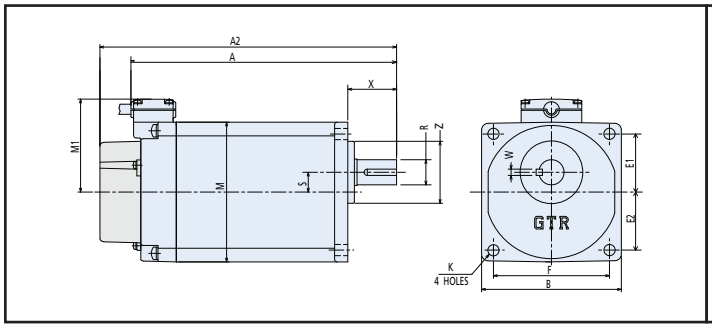
Dwg 1.9



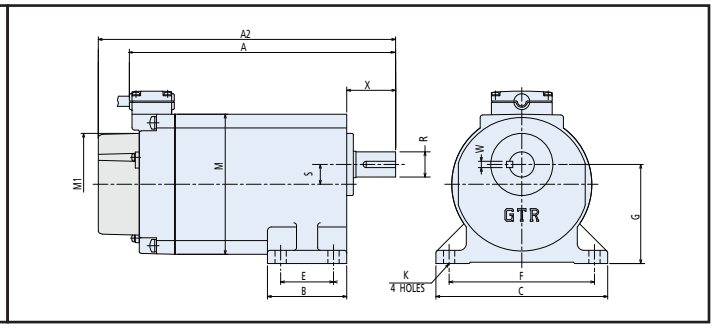
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
12	1.10	6.93	7.80	2.99	0.83	1.69	2.52	0.26	2.99	2.28	0.43	1.4	0.5000	0.1250	1.08	4.5
15	1.10	7.34	8.27	3.54	0.98	2.01	2.99	0.26	3.54	2.54	0.51	1.59	0.6250	0.1875	1.3	7

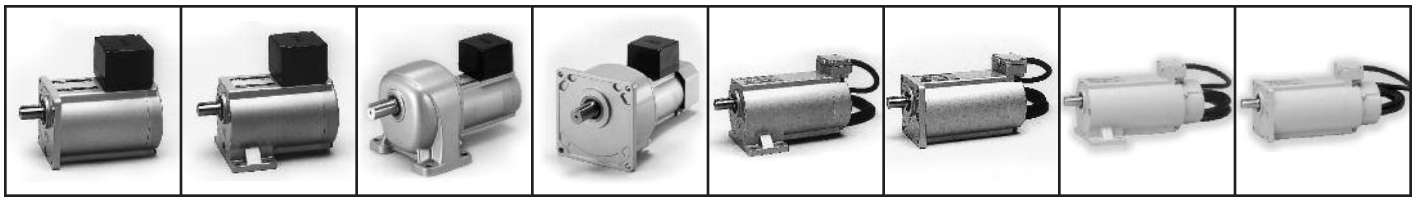
Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
12	1.11	6.93	7.80	1.97	3.54	1.38	2.99	2.17	0.26	2.99	2.28	0.43	0.5000	0.1250	1.08	4.5
15	1.11	7.34	8.27	2.20	4.09	1.57	3.54	2.56	0.26	3.54	2.54	0.51	0.6250	0.1875	1.3	7

Dwg 1.10



Dwg 1.11





Spec Table 1.2

Specifications						Dimensional Drawing													
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/20	15	5	360	8	22	Dwg 1.14 A	Dwg 1.12 A	Dwg 1.14 A	Dwg 1.12 A	Dwg 1.14 A2	Dwg 1.12 A2	Dwg 1.14 A2	Dwg 1.12 A2	Dwg 1.17 A	Dwg 1.16 A	Dwg 1.17 A	Dwg 1.16 A	Dwg 1.17 A2	Dwg 1.16 A2	Dwg 1.17 A2	Dwg 1.16 A2
		7.5	240	12	44																
		10	180	16	55																
		15	120	23	77																
		20	90	31	99																
		25	72	39	110																
		30	60	47	121																
		40	45	62	132																
		50	36	78	143																
		60	30	94	154																
		80	23	119	220																
		100	18	148	220																
		120	15	178	243																
	18	160	11	237	308	Dwg 1.14 A	Dwg 1.12 A	Dwg 1.14 A	Dwg 1.12 A	Dwg 1.14 A2	Dwg 1.12 A2	Dwg 1.14 A2	Dwg 1.12 A2	Dwg 1.17 A	Dwg 1.16 A	Dwg 1.17 A	Dwg 1.16 A	Dwg 1.17 A2	Dwg 1.16 A2	Dwg 1.17 A2	Dwg 1.16 A2
		200	9	296	308																
		240	7.5	356	308																
	28	300	6	400	617	Dwg 1.15 A	Dwg 1.13 A	Dwg 1.15 A	Dwg 1.13 A	Dwg 1.15 A2	Dwg 1.13 A2	Dwg 1.15 A2	Dwg 1.13 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		375	4.8	500	617																
		450	4	600	617																
		600	3	800	617																
		750	2.4	1000	617																
		900	2	1200	617																
	32	1200	1.5	1600	617	Dwg 1.15 A	Dwg 1.13 A	Dwg 1.15 A	Dwg 1.13 A	Dwg 1.15 A2	Dwg 1.13 A2	Dwg 1.15 A2	Dwg 1.13 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		1500	1.2	2000	617																
		1800	1	2430	617																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	F	15	N	005	-	B	M	LD	2	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~240:1) K: Flange Mount (300:1~1800:1)	15 18 28 32	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: Motor B: Brakemotor WM: IP-65 Motor WB: IP-65 Brakemotor	Frame 15, 28, 32 RE: 1/20 Hp (40w) Frame 18 YE: 1/20Hp (40w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11) *No 460V for IP-65	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20 IP-65 Motor N: Cord, 6 ft IP-65 Brakemotor N: Cord, 6 ft	Blank: Standard Type X: Special Spec

CAD Drawings

Go to 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 Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

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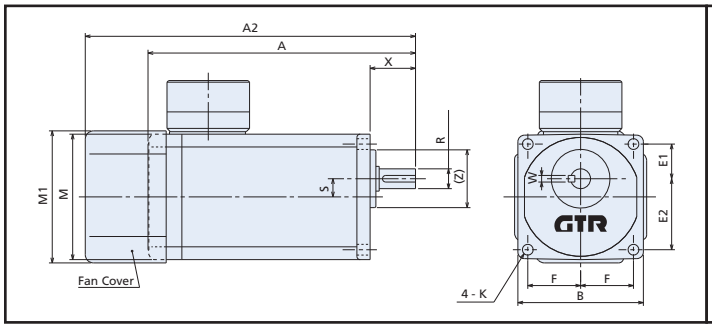
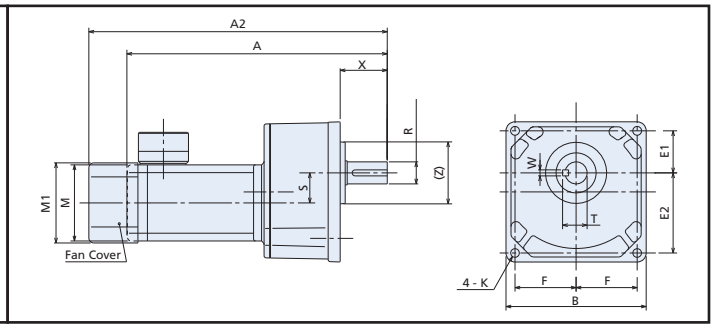
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.12	6.81	8.25	3.54	0.98	2.01	1.50	0.26	3.54	3.70	0.51	1.59	0.6250	0.1875	1.30	7
18	1.12	7.40	8.88	4.17	1.14	2.32	1.73	0.33	4.17	4.33	0.59	1.87	0.7500	0.1875	1.46	9
28	1.13	11.12	12.56	6.46	1.87	3.72	2.80	0.43	3.54	3.70	1.44	3.27	1.1250	0.2500	1.85	15.5
32	1.13	12.32	13.76	7.80	2.30	4.47	3.39	0.51	3.54	3.70	1.63	3.62	1.2500	0.2500	2.28	24.5

Dwg 1.12

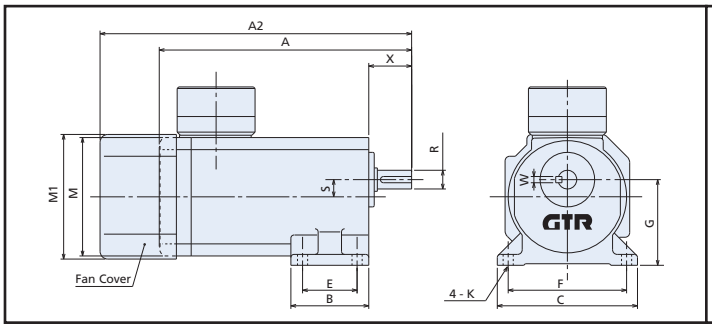


Dwg 1.13

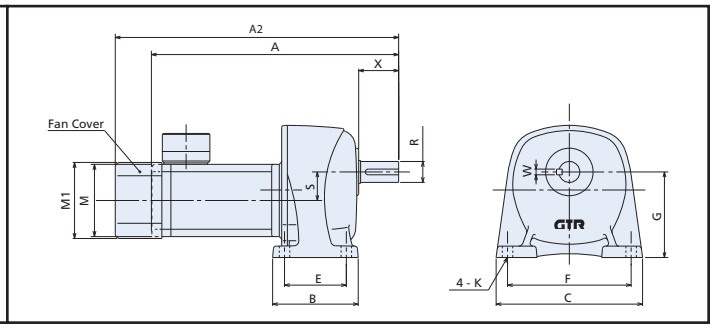


Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.14	6.81	8.25	2.20	4.09	1.57	3.54	2.56	0.26	3.54	3.70	0.51	0.6250	0.1875	1.30	7
18	1.14	7.40	8.88	2.36	5.12	1.57	4.33	2.95	0.33	4.17	4.33	0.59	0.7500	0.1875	1.46	9
28	1.15	11.20	12.56	4.92	6.89	3.54	5.51	4.33	0.43	3.54	3.70	1.44	1.1250	0.2500	1.85	15.5
32	1.15	12.32	13.76	6.61	8.19	5.12	6.69	5.12	0.51	3.54	3.70	1.63	1.2500	0.2500	2.28	24.5

Dwg 1.14



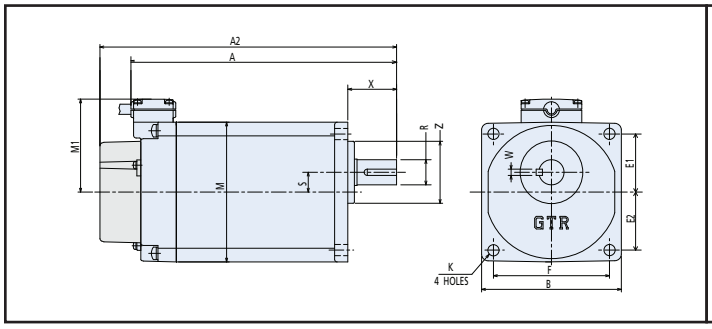
Dwg 1.15



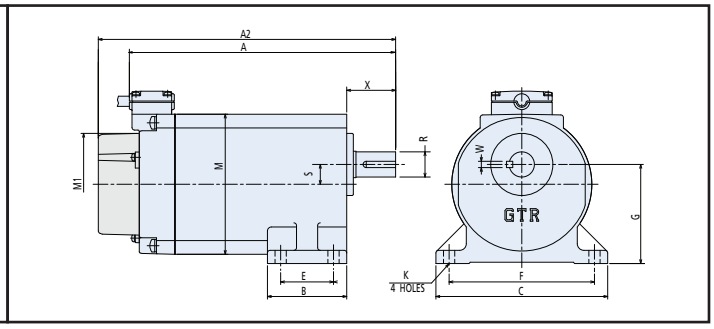
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.16	7.34	8.27	3.54	0.98	2.01	2.99	0.26	3.54	2.54	0.51	1.59	0.6250	0.1875	1.3	7
18	1.16	7.93	8.86	4.17	1.14	2.32	3.46	0.33	4.17	2.74	0.59	1.87	0.7500	0.1875	1.46	9

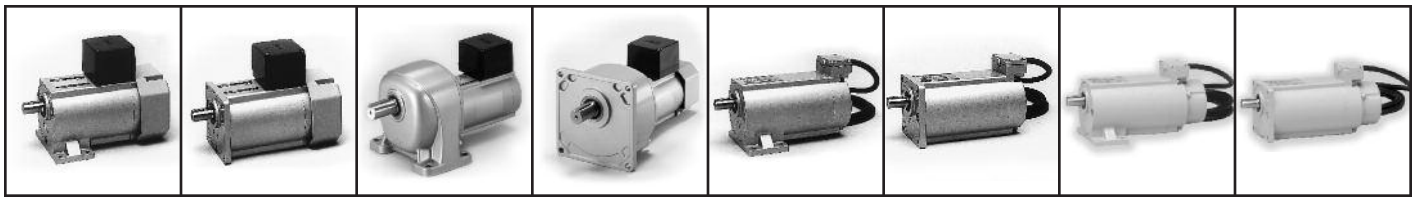
Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.17	7.34	8.27	2.20	4.09	1.57	3.54	2.56	0.26	3.54	2.54	0.51	0.6250	0.1875	1.3	7
18	1.17	7.93	8.86	2.36	5.12	1.57	4.33	2.95	0.33	4.17	2.74	0.59	0.7500	0.1875	1.46	9

Dwg 1.16



Dwg 1.17





Spec Table 1.3

Specifications						Dimensional Drawing															
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/15	(15) (18)	5	360	12	22	Dwg 1.20 (15) A2	Dwg 1.18 (15) A2	Dwg 1.20 (15) A	Dwg 1.18 (15) A	Dwg 1.20 (15) A2	Dwg 1.18 (15) A2	Dwg 1.20 (15) A2	Dwg 1.18 (15) A2	Dwg 1.23 (18) A	Dwg 1.22 (18) A	Dwg 1.22 (15) A	Dwg 1.23 (15) A	Dwg 1.23 (18) A	Dwg 1.22 (18) A	Dwg 1.22 (15) A2	Dwg 1.23 (15) A2
		7.5	240	18	44																
		10	180	25	55																
		15	120	37	77																
		20	90	49	99																
		25	72	61	110																
		30	60	74	121																
		40	45	98	176																
		50	36	123	198																
		60	30	147	198																
	18	80	23	186	286	Dwg 1.20 A2	Dwg 1.18 A2	Dwg 1.20 A	Dwg 1.18 A	Dwg 1.20 A2	Dwg 1.18 A2	Dwg 1.20 A2	Dwg 1.18 A2	Dwg 1.23 A	Dwg 1.22 A	Dwg 1.23 A	Dwg 1.22 A	Dwg 1.23 A2	Dwg 1.22 A	Dwg 1.23 A	Dwg 1.22 A
		100	18	233	286																
		120	15	279	308																
		160	11	373	308																
		200	9	466	308																
		240	7.5	477	308																
	28	300	6	629	617	Dwg 1.21 A2	Dwg 1.19 A2	Dwg 1.21 A	Dwg 1.19 A	Dwg 1.21 A2	Dwg 1.19 A2	Dwg 1.21 A2	Dwg 1.19 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		375	4.8	786	617																
		450	4	943	617																
		600	3	1258	617																
		750	2.4	1572	617																
		900	2	1887	617																
	32	1200	1.5	2515	1146	Dwg 1.21 A2	Dwg 1.19 A2	Dwg 1.21 A	Dwg 1.19 A	Dwg 1.21 A2	Dwg 1.19 A2	Dwg 1.21 A2	Dwg 1.19 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		1500	1.2	3144	1146																
		1800	1	3732	1146																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	F	15	N	005	-	B	M	RF	2	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~240:1) K: Flange Mount (300:1~1800:1)	15 18 28 32	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: Motor B: Brakemotor WM: IP-65 Motor WB: IP-65 Brakemotor	Frame 15, 28, 32 RF: 1/15 Hp (60w)) Frame 18 YF: 1/15Hp (60w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11) *No 460V for IP-65	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20 IP-65 Motor N: Cord, 6 ft IP-65 Brakemotor N: Cord, 6 ft	Blank: Standard Type X: Special Spec

CAD Drawings

Go to www.BrotherGearmotors.com and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

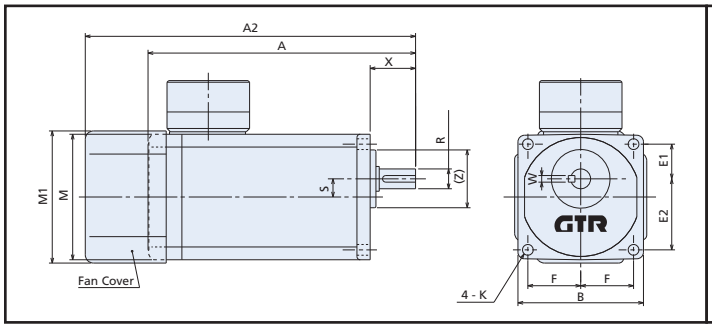
Special Specs

Notes:

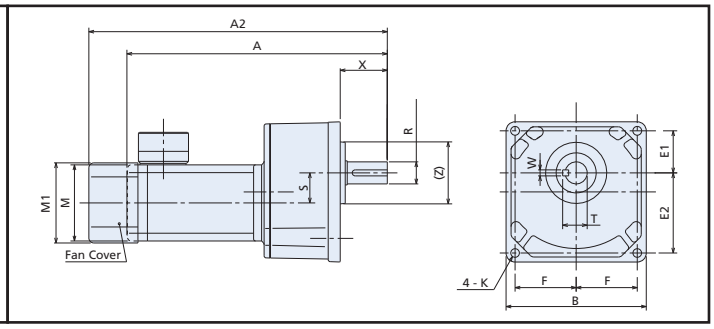
1. Lead Wire Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.18	6.81	8.25	3.54	0.98	2.01	1.50	0.26	3.54	3.70	0.51	1.59	0.6250	0.1875	1.30	7
18	1.18	7.40	8.88	4.17	1.14	2.32	1.73	0.33	4.17	4.33	0.59	1.87	0.7500	0.1875	1.46	9
28	1.19	11.12	12.56	6.46	1.87	3.72	2.80	0.43	3.54	3.70	1.44	3.27	1.1250	0.2500	1.85	15.5
32	1.19	12.32	13.76	7.80	2.30	4.47	3.39	0.51	3.54	3.70	1.63	3.62	1.2500	0.2500	2.28	24.5

Dwg 1.18

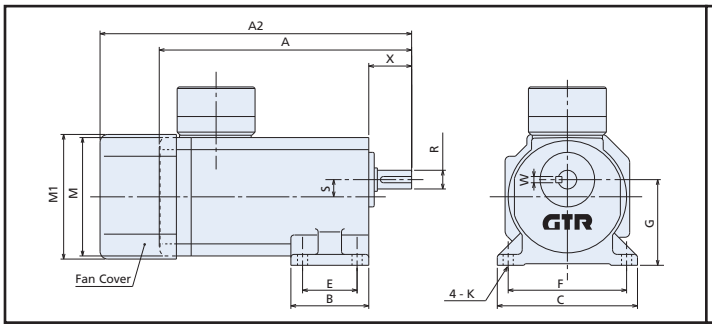


Dwg 1.19

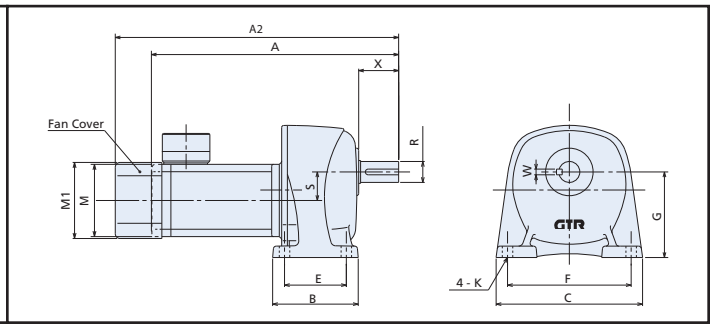


Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.20	6.81	8.25	2.20	4.09	1.57	3.54	2.56	0.26	3.54	3.70	0.51	0.6250	0.1875	1.30	7
18	1.20	7.40	8.88	2.36	5.12	1.57	4.33	2.95	0.33	4.17	4.33	0.59	0.7500	0.1875	1.46	9
28	1.21	11.20	12.56	4.92	6.89	3.54	5.51	4.33	0.43	3.54	3.70	1.44	1.1250	0.2500	1.85	15.5
32	1.21	12.32	13.76	6.61	8.19	5.12	6.69	5.12	0.51	3.54	3.70	1.63	1.2500	0.2500	2.28	24.5

Dwg 1.20



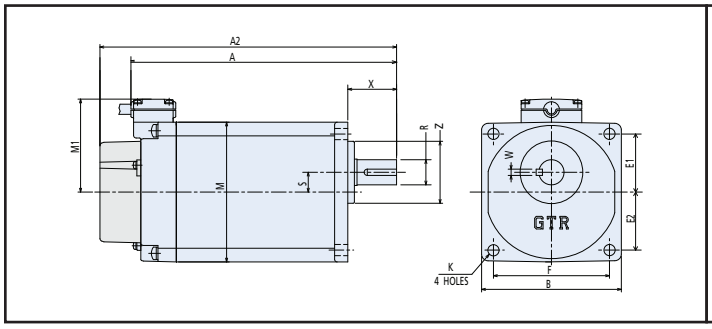
Dwg 1.21



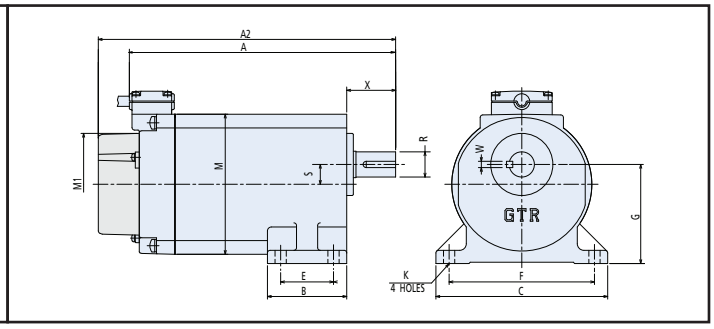
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.22	7.34	8.27	3.54	0.98	2.01	2.99	0.26	3.54	2.54	0.51	1.59	0.6250	0.1875	1.3	7
18	1.22	7.93	8.86	4.17	1.14	2.32	3.46	0.33	4.17	2.74	0.59	1.87	0.7500	0.1875	1.46	9

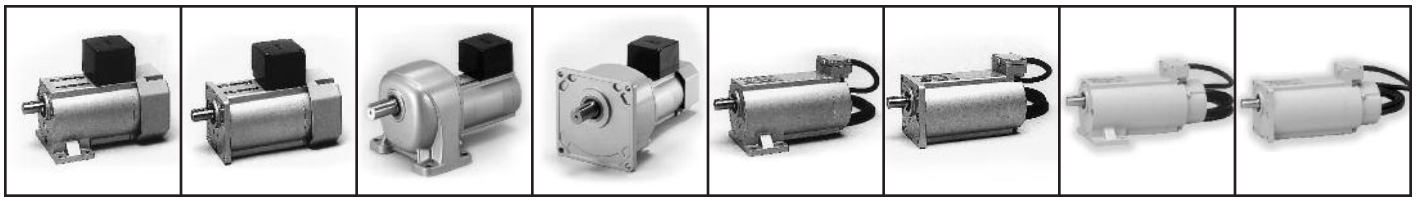
Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.23	7.34	8.27	2.20	4.09	1.57	3.54	2.56	0.26	3.54	2.54	0.51	0.6250	0.1875	1.3	7
18	1.23	7.93	8.86	2.36	5.12	1.57	4.33	2.95	0.33	4.17	2.74	0.59	0.7500	0.1875	1.46	9

Dwg 1.22



Dwg 1.23





Spec Table 1.4

Specifications						Dimensional Drawing													
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/10	(15) (18)	5	360	18	33	Dwg 1.26 (15) A2	Dwg 1.24 (15) A2	Dwg 1.26 (15) A2	Dwg 1.24 (15) A2	Dwg 1.26 (15) A2	Dwg 1.24 (15) A2	Dwg 1.26 (15) A2	Dwg 1.24 (15) A2	n/a	n/a	Dwg 1.29 (18) A	Dwg 1.28 (18) A	n/a	n/a	Dwg 1.28 (18) A2	Dwg 1.28 (18) A2
		7.5	240	28	55																
		10	180	37	77																
		15	120	55	99																
		20	90	74	121																
		25	72	92	132																
		30	60	110	154																
	18	40	45	147	242	Dwg 1.26 A	Dwg 1.24 A	Dwg 1.26 A	Dwg 1.24 A	Dwg 1.26 A2	Dwg 1.24 A2	Dwg 1.26 A2	Dwg 1.24 A2	n/a	n/a	Dwg 1.29 A	Dwg 1.28 A	n/a	n/a	Dwg 1.29 A	Dwg 1.28 A
		50	36	184	264																
		60	30	221	264																
		80	23	279	286																
		100	18	349	286																
		120	15	419	308																
		160	11	477	396																
		200	9	477	396																
		240	7.5	477	396																
	28	300	6	943	617	Dwg 1.27 A2	Dwg 1.25 A2	Dwg 1.27 A2	Dwg 1.25 A2	Dwg 1.27 A2	Dwg 1.25 A2	Dwg 1.27 A2	Dwg 1.25 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		375	4.8	1179	617																
		450	4	1415	617																
		600	3	1887	1146																
		750	2.4	2358	1146																
		900	2	2830	1146																
	40	1200	1.5	3726	1588	Dwg 1.27 A	Dwg 1.25 A	Dwg 1.27 A	Dwg 1.25 A	Dwg 1.27 A2	Dwg 1.25 A2	Dwg 1.27 A2	Dwg 1.25 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		1500	1.2	4682	1588																
		1800	1	5638	1588																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	K	32	N	900	-	B	B	RF	2	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~240:1) K: Flange Mount (300:1~1800:1)	15 18 28 40	N: Common Code	005 : 5:1 030 : 30:1 120 : 120:1 900 : 900:1 12X : 1200:1		B: UL/CSA	M: Motor B: Brakemotor WM: IP-65 Motor WB: IP-65 Brakemotor	Frame 15, 28, 32 RG: 1/10 Hp (90w) Frame 18 YG: 1/10Hp (90w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11) *No 460V for IP-65	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20 IP-65 Motor N: Cord, 6 ft IP-65 Brakemotor N: Cord, 6 ft	Blank: Standard Type X: Special Spec

CAD Drawings

Go to www.BrotherGearmotors.com and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

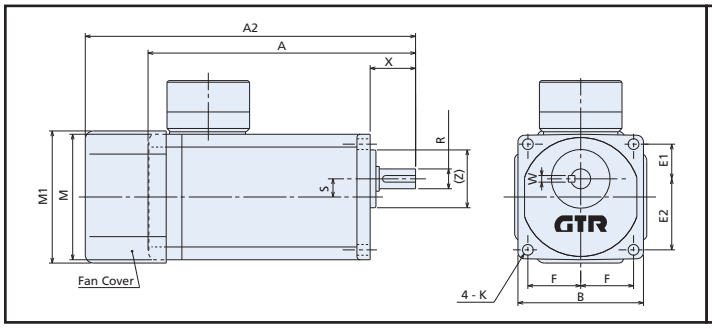
Special Specs

Notes:

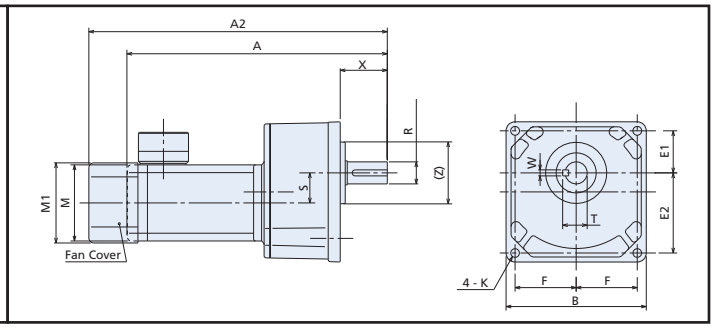
1. Lead Wire Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.24	6.81	8.25	3.54	0.98	2.01	1.50	0.26	3.54	3.70	0.51	1.59	0.6250	0.1875	1.30	7
18	1.24	7.40	8.88	4.17	1.14	2.32	1.73	0.33	4.17	4.33	0.59	1.87	0.7500	0.1875	1.46	9
28	1.25	11.12	12.56	6.46	1.87	3.72	2.80	0.43	3.54	3.70	1.44	3.27	1.1250	0.2500	1.85	15.5
32	1.25	12.32	13.76	7.80	2.30	4.47	3.39	0.51	3.54	3.70	1.63	3.62	1.2500	0.2500	2.28	24.5

Dwg 1.24

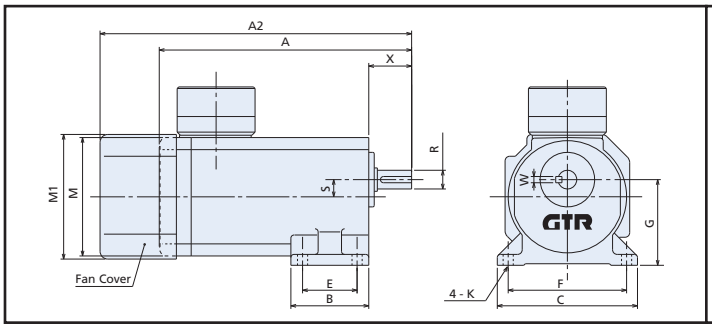


Dwg 1.25

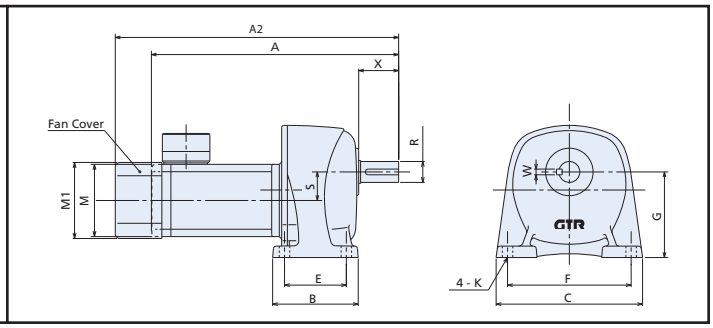


Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.26	6.81	8.25	2.20	4.09	1.57	3.54	2.56	0.26	3.54	3.70	0.51	0.6250	0.1875	1.30	7
18	1.26	7.40	8.88	2.36	5.12	1.57	4.33	2.95	0.33	4.17	4.33	0.59	0.7500	0.1875	1.46	9
28	1.27	11.20	12.56	4.92	6.89	3.54	5.51	4.33	0.43	3.54	3.70	1.44	1.1250	0.2500	1.85	15.5
32	1.27	12.32	13.76	6.61	8.19	5.12	6.69	5.12	0.51	3.54	3.70	1.63	1.2500	0.2500	2.28	24.5

Dwg 1.26



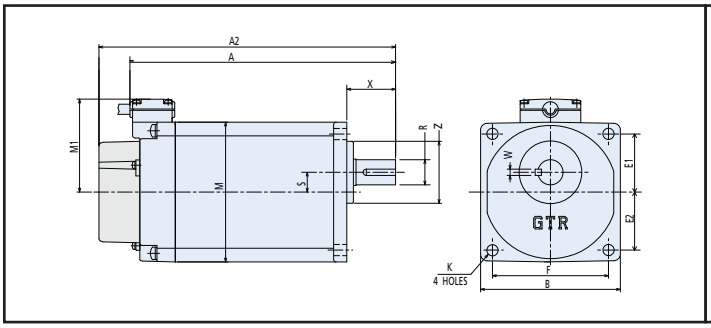
Dwg 1.27



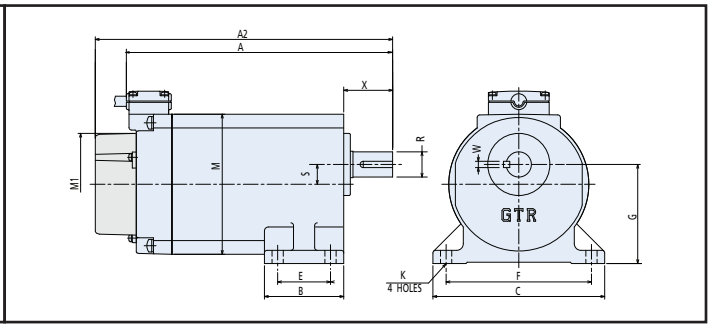
Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
15	1.28	7.34	8.27	3.54	0.98	2.01	2.99	0.26	3.54	2.54	0.51	1.59	0.6250	0.1875	1.3	7
18	1.28	7.93	8.86	4.17	1.14	2.32	3.46	0.33	4.17	2.74	0.59	1.87	0.7500	0.1875	1.46	9

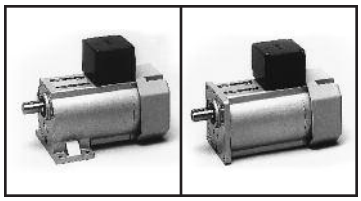
Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
15	1.29	7.34	8.27	2.20	4.09	1.57	3.54	2.56	0.26	3.54	2.54	0.51	0.6250	0.1875	1.3	7
18	1.29	7.93	8.86	2.36	5.12	1.57	4.33	2.95	0.33	4.17	2.74	0.59	0.7500	0.1875	1.46	9

Dwg 1.28



Dwg 1.29





Spec Table 1.6

Specifications						Dimensional Drawing													
						Motor				Brakemotor				Motor IP-65				Brakemotor IP-65			
						Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase		Single Phase		Three Phase	
Hp	Frame	Ratio X:1 GR	Nominal RPM n	Torque (in-lbs) TR	O.H.L. (lbs) OHL	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange	Foot	Flange
1/6 Hp	18	5	360	25	44	Dwg 1.31 A2	Dwg 1.30 A2	Dwg 1.31 A2	Dwg 1.30 A2	Dwg 1.31 A2	Dwg 1.30 A2	Dwg 1.31 A2	Dwg 1.30 A2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		7.5	240	37	66																
		10	180	49	99																
		15	120	74	132																
		20	90	98	165																
		25	72	123	198																
		30	60	147	220																
		40	45	196	243																
		50	36	245	265																
		60	30	294	265																

Notes:

1. Motor and brakemotor electrical data shown on Pages 10~13.
2. The gearmotor length dimension that applies is noted as A or A2 in the "Motor" and "Brakemotor" columns.
3. Brother 3 phase gearmotors are suitable for use with a VFD. See Fig 1.18, Page 15 for details.

Model Number for Ordering

G	F	18	N	030	-	B	M	YJ	3	A	X
Type	Mount Form	Frame	Shaft/Bore Arrangement	Gear Ratio		UL/CSA	Motor Type	Motor Power	Supply Voltage	Terminal Box/Leads	Special Spec
G: G Series	L: Foot Mount F: Flange Mount (5:1~60:1)	18	N: Common Code	005 : 5:1 030 : 30:1		B: UL/CSA	M: Motor B: Brakemotor	Frame 18 YJ: 1/6 Hp (120w)	Single Phase 1: 115V, 60Hz 5: 220V, 60Hz 6: 230V, 60Hz 7: OEM Spec (Fig 1.6, Pg 11) Three Phase 2: 208/230V, 60Hz 3: 460V, 60Hz* 8: OEM Spec (Fig 1.5, Pg 11)	Standard Type A: Die Cast Box (IP-44) C: Plastic Box (IP-20) N: Leads 11.8 in, IP-20	Blank: Standard Type X: Special Spec

CAD Drawings

Go to www.BrotherGearmotors.com and enter the desired model number in the configurator. DXF, 3D, and PDF files are available to view or download.

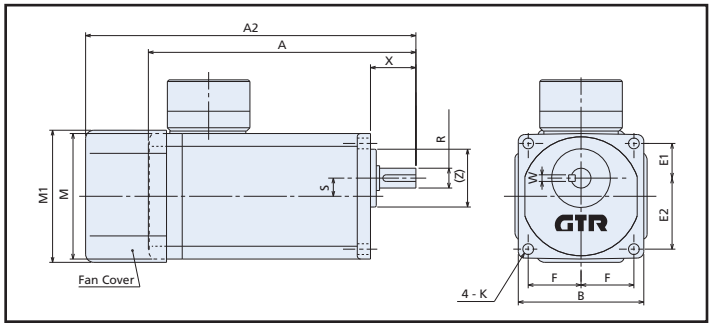
Special Specs

Notes:

1. Lead Wire Location: specify the code from Fig 1.14 , Page 14 on your purchase order.
2. Terminal Box Location: specify the code from Fig 1.15 Page 14 on your purchase order.
3. IP-65 Cord Location Location: specify the code from Fig 1.16 , Page 14 on your purchase order.
4. Special Voltage: specify the Voltage/Frequency from Page 11, Fig 1.5.(3 phase) or Fig 1.6 (1 phase) on your purchase order.
5. For any other special OEM requirement, please consult Brother.

Frame	Drawing	A	A2	B	E1	E2	F	K	M	M1	S	Z	R	W	X	Wt (lb)
18	1.30	7.40	8.88	4.17	1.14	2.32	1.73	0.33	4.17	4.33	0.59	1.87	0.7500	0.1875	1.46	9

Dwg 1.30



Frame	Drawing	A	A2	B	C	E	F	G	K	M	M1	S	R	W	X	Wt (lb)
32	1.27	12.32	13.76	6.61	8.19	5.12	6.69	5.12	0.51	3.54	3.70	1.63	1.2500	0.2500	2.28	24.5

Dwg 1.31