



## Parallel Shaft

# G-Type Gearmotor

## Model and Type Designation Standard Model Lineup

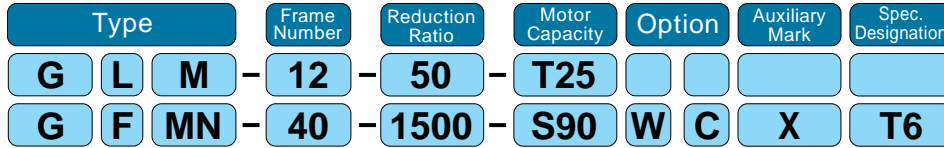
# G Type

Parallel Shaft

Gearmotor/Gearmotor with Brake	
Model and Type Designation/Standard Model Lineup .....	P. A5
3-phase Performance Table/Dimension Diagram .....	P. A9
1-phase Performance Table/Dimension Diagram .....	P. A45
Water-Resistant (IP65) Gearmotor/Gearmotor with Brake	
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Speed Control Gearmotor	
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Gearmotor with Clutch and Brake	
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# Model and Type Designation G-Type(Parallel Shaft)

G-Type gearmotors are classified by codes as shown below.  
Specify these codes in your inquiry and order.



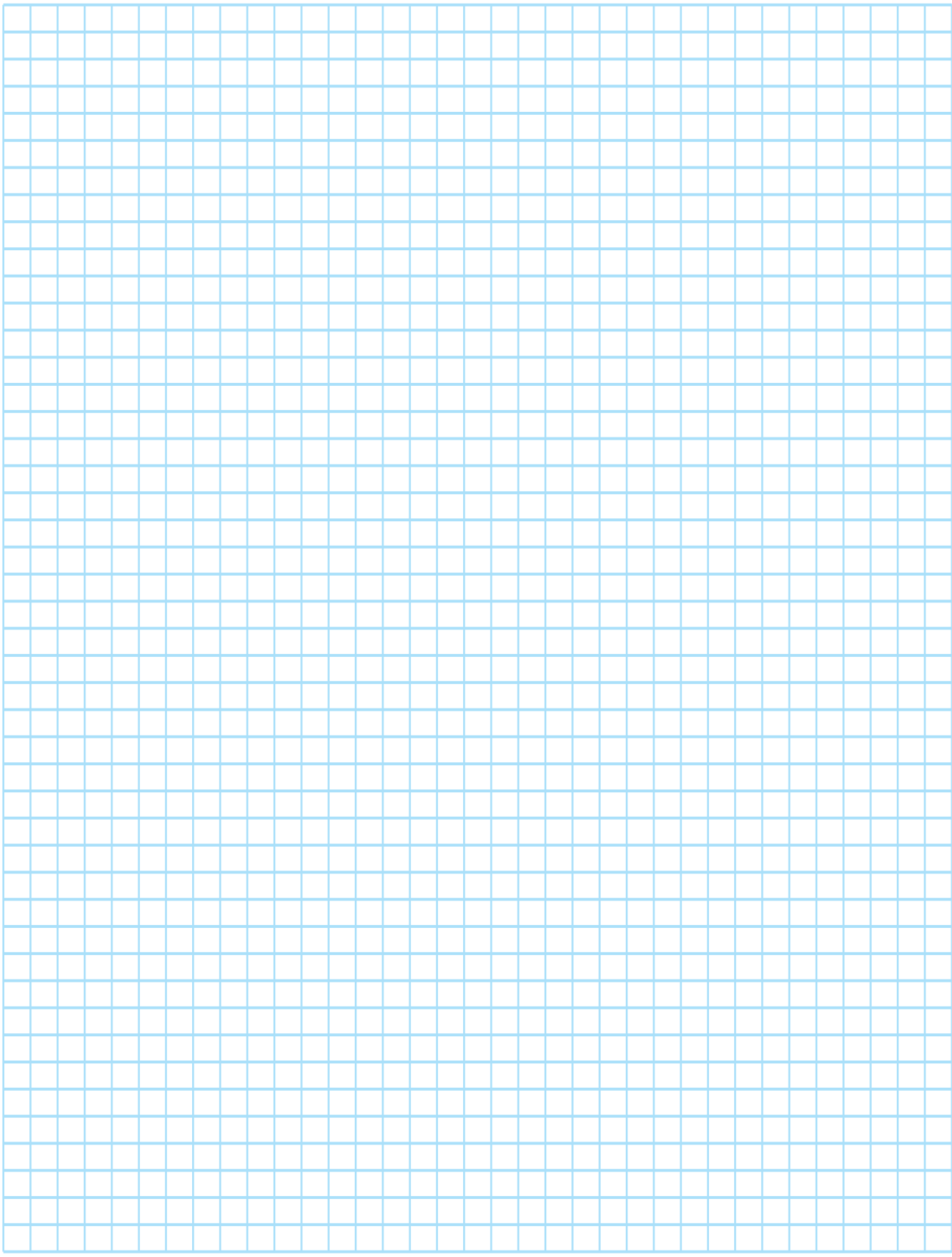
Series Name	G : G-Type( Parallel Shaft )
	GT : GT-Type( Parallel Shaft )
Classification by Mount Form	L : Foot Mount
	F : Flange Mount
	K : Small Flange Mount( Frame No.22 ~ 32 )
	8 : Flange Dimension 80( GT-Type only )
	9 : Flange Dimension 90( GT-Type only )
Classification by Motor Type	M : With Motor
	MN : With Brake Motor
	B : With Brake Motor( GT-Type only )
	W : With Water-resistant Motor ( Output Shaft material:SUS420J2 )
	V : With Water-resistant Brake Motor( Output Shaft material:SUS420J2 )
	MA : With Clutch/Brake
	U : With Speed Control Gearmotor U-Type( With Controller )
	P : With Speed Control Gearmotor P-Type( Controller Sells Separately )
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 1800 : 1 / 1800
Motor Designation and Capacity	T15 : 3-phase 15W
	T25 : 3-phase 25W
	T40 : 3-phase 40W
	T60 : 3-phase 60W
	T90 : 3-phase 90W
	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S40 : 1-phase 40W
	S60 : 1-phase 60W
	S90 : 1-phase 90W
Option	Blank : Standard Specifications 3-phase: 200V / 50Hz, 200V / 60Hz, 220V / 60Hz 1-phase : 100V / 50Hz, 100V / 60Hz
	W : High Voltage 3-phase: 380V / 50Hz, 400V / 50Hz, 400V / 60Hz, 440V / 60Hz 1-phase : 200V / 50Hz, 200V / 60Hz
	T : T-Type Terminal Box
	K : K-Type Terminal Box
	C : Rectifier built-in terminal box for brake motor : Terminal box for Speed Control type motor
	Blank : Standard Specs. X : Mark for Additional Specs.
Auxiliary Mark	Blank : Standard Specs.
	X : Mark for Additional Specs.
Spec. Designation	Blank : Standard Specs.
	Position indicator for lead-wire, terminal box and cab tyre cable Refer to the indication mark list in P. E54 for details.

**Note 1:** For the types stated below, manufacturing with double voltage is not feasible.  
Water-resistant motors 3-phase (Single-phase can be acceptable as a special order.)  
All models with clutch/brake GT-Type 3-phase

**Note 2:** Since the water-resistant motors are specifications with exclusive cab tyre cable, the optional terminal box cannot be attached.

**Note 3:** Be sure that the specification of C-Type Terminal Box for brake motors with rectifier built-in is different from that for the speed control type.  
For more details, refer to P. E40 and P. E56

Parallel Shaft Performance Table/ Dimension  
Gearmotor with Brake  
Water-resistant Gearmotor with Brake  
Speed Control Gearmotor  
Gearmotor with Clutch/Brake  
GT-Type Gearmotor with Brake  
Right Angle Shaft Performance Table/ Dimension  
Gearmotor with Brake  
With Water-resistant Brake Motor  
Speed Control Gearmotor  
Concentric Hollow Shaft Performance Table/ Dimension  
Gearmotor with Brake  
With Water-resistant Brake Motor  
Speed Control Gearmotor  
Parallel Shaft GTR-L Series Performance Table/ Dimension  
Reversible Gearmotor with Brake  
Speed Control Gearmotor with Brake  
Technical Information  
Standard Motors  
Cautions for Safety  
Option



Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option





# Parallel Shaft

## Gearmotor Gearmotor with Brake

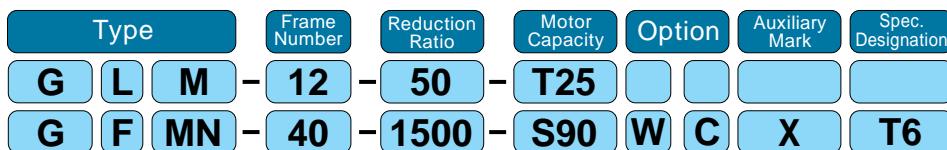
### Model • Type Designation Standard Model Lineup

**G**  
Type  
Parallel Shaft

Motor Part	Number of phase	3-Phase	1-Phase
	Capacity	15W ~ 90W	15W ~ 90W
	Power Source	3 Rated Power Source 200V 50/60Hz, 220V/60Hz	100V 50/60Hz
	Insulation Classification	Class E	Class E
	Starting Method	Direct start	Capacitor Start
	Protective cooling Method	Totally Enclosed non-ventilated or Totally Enclosed fan-cooled	
	Number of Pole	4	
Rating	Continuous Rating		
Speed Reduction Part	Reduction Method	Helical gear	
	Lubrication	Grease Lubrication(Maintenance Free)	
	Output Shaft	New JIS Key(JIS 1301-1976 class)	
	Output Shaft Material	S43C	
Case Material	Aluminium die-cast		
Ambient Conditions	Ambient Temperature	- 10 ~ 40	
	Ambient Humidity	85% max.(without any dew condensation)	
	Altitude	1,000m max.	
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.	
	Installation Location	Indoors	
Painting	Painting Method	Anion painting, Acrylic paint	
	Painting Color	Grey(Mansel code: 9B6/0.5)	
Mounting Direction	No restriction in the mounting angle.(horizontally, vertically or heeling angle)		

# Model and Type Designation G-Type(Parallel Shaft)

G-Type gearmotors and gearmotor with brake are classified by codes as shown below. Specify these codes in your inquiry and order.



Series Name	G : G-Type( Parallel Shaft )
Classification by Mount Form	L : Foot Mount
	F : Flange Mount
	K : Small Flange Mount( Frame No.22 ~ 32 )
Classification by Motor Type	M : With Motor
	MN : With Brake Motor
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 1800 : 1 / 1800
Motor Designation and Capacity	T15 : 3-phase 15W
	T25 : 3-phase 25W
	T40 : 3-phase 40W
	T60 : 3-phase 60W
	T90 : 3-phase 90W
	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S40 : 1-phase 40W
	S60 : 1-phase 60W
S90 : 1-phase 90W	
Option	Blank : Standard Specifications 3-phase: 200V / 50Hz, 200V / 60Hz, 220V / 60Hz 1-phase: 100V / 50Hz, 100V / 60Hz
	W : High Voltage 3-phase: 380V / 50Hz, 400V / 50Hz, 400V / 60Hz, 440V / 60Hz 1-phase: 200V / 50Hz, 200V / 60Hz
	T : T-Type Terminal Box
	K : K-Type Terminal Box
	C : Rectifier built-in terminal box for brake motor
Auxiliary Mark	Blank : Standard Specs.
	X : Mark for Additional Specs.
Spec. Designation	Position indicator for lead-wire, terminal box Refer to the indication mark list in P. E54 for details.

**Note:** Spec. Designation does not appear on the product type designation in the nameplate. It is specified on the additional numbers in the nameplate.

Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

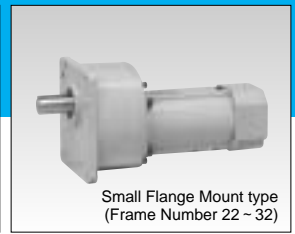
Technical Information

Standard Motors

Cautions for Safety

Option

# Standard Model Lineup



Type	4P Motor Capacity	Frame Number	Reduction Ratio						
<b>Gearmotor</b> GLM GFM GKM (Frame Number 22 - 32)  <b>Gearmotor with Brake</b> GLMN GFMN GKMN (Frame Number 22 - 32)	3-Phase 15W	12	1/5	1/7.5	1/10	1/15	1/20	1/25	1/30
			1/40	1/50	1/60	1/80	1/100	1/120	
	3-Phase 15W	22	1/160	1/200	1/240				
			1/300	1/375	1/450	1/600	1/750	1/900	
	3-Phase 25W	12	1/1200	1/1500	1/1800				
			1/5	1/7.5	1/10	1/15	1/20	1/25	1/30
	1-Phase 25W	15	1/40	1/50	1/60	1/80	1/100	1/120	
			1/160	1/200	1/240				
	3-Phase 40W	12	1/300	1/375	1/450	1/600	1/750	1/900	
			1/1200	1/1500	1/1800				
	1-Phase 40W	15	1/160	1/200	1/240				
			1/80	1/100	1/120				
	3-Phase 60W	12	1/160	1/200	1/240				
			1/180	1/225	1/270	1/360	1/450	1/540	1/630
	1-Phase 60W	15	1/300	1/375	1/450	1/600	1/750	1/900	
			1/1200	1/1500	1/1800				
	3-Phase 90W	12	1/600	1/750	1/900	1/1200	1/1500	1/1800	
			1/1200	1/1500	1/1800				
1-Phase 90W	15	1/1200	1/1500	1/1800					
		1/5	1/7.5	1/10	1/15	1/20	1/25	1/30	
3-Phase 90W	18	1/40	1/50	1/60	1/80	1/100	1/120		
		1/160	1/200	1/240					
1-Phase 90W	28	1/300	1/375	1/450					
		1/600	1/750	1/900					
3-Phase 90W	32	1/1200	1/1500	1/1800					
		1/1200	1/1500	1/1800					
1-Phase 90W	40	1/600	1/750	1/900					
		1/1200	1/1500	1/1800					

(Note 2)

**Note 1**) The models GKM/GKMN (small flange mount type) are available in the frame number 22, 28 and 32. (Not available in the frame number 12, 15, 18 and 40.)  
**Note 2**) The frame number will be "15" for the models with power supply other than 3-phase standard voltage. As for the single-phase models, the frame number is "15" only.  
**Note 3**)    The models enclosed with orange color bold line are low torque type. Special care should be given to the allowable torque in the performance table.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option







# Parallel Shaft

# Gearmotor Gearmotor with Brake


## Performance Table Dimension diagram

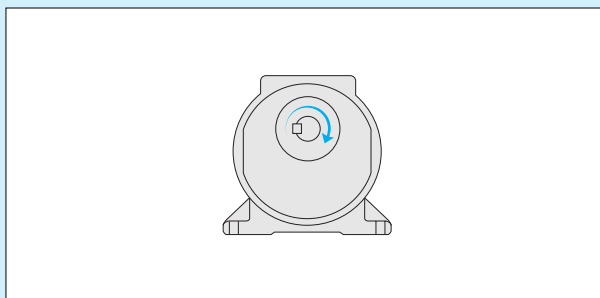
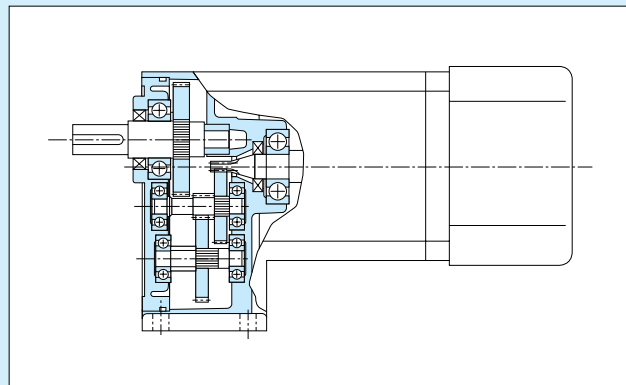
**G**  
Type  
Parallel Shaft

### 3-Phase

**【Remarks】**

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	T15	200/200/220	50/60/60	12	0.14/0.13/0.13	1350/1550/1600	E	Totally Enclosed or Totally Enclosed Fan-cooled
					22	0.14/0.13/0.13	1350/1550/1600		
Double Voltage (Continuous Rated 4 Poles)		T15W	380/400/400/440	50/50/60/60	12	0.11/0.12/0.10/0.11	1400/1400/1700/1700		
					22	0.11/0.12/0.10/0.11	1400/1400/1700/1700		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight									
			50Hz	60Hz	N*m	kgf*m	N		kgf		Gearmotor			Gearmotor with Brake				
							GLM	GFM	GKM	GLMN	GFMN	GKMN						
3-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A11 Fig.A-1 2kg	P.A11 Fig.A-3 2kg	P.A12 Fig.A-6 2kg	P.A12 Fig.A-8 2kg						
		1/ 7.5	200	240	0.49	0.05	196	20										
		1/ 10	150	180	0.69	0.07	245	25										
		1/ 15	100	120	0.98	0.10	343	35										
		1/ 20	75	90	1.27	0.13	441	45										
		1/ 25	60	72	1.67	0.17	490	50										
		1/ 30	50	60	1.96	0.20	539	55										
		1/ 40	37.5	45	2.65	0.27	588	60										
		1/ 50	30	36	3.33	0.34	637	65										
		1/ 60	25	30	3.92	0.40	686	70										
		1/ 80	18.8	22.5	5.00	0.51	735	75										
		1/ 100	15	18	6.27	0.64	735	75										
	1/ 120	12.5	15	7.45	0.76	784	80											
	1/ 160	9.4	11.2	9.80	1.0	784	80											
	1/ 200	7.5	9	12.7	1.3	784	80											
	1/ 240	6.3	7.5	14.7	1.5	784	80											
	1/ 300	5	6	16.7	1.7	1760	180	P.A11 Fig.A-2 5kg	P.A11 Fig.A-4 5kg	P.A11 Fig.A-5 5kg	P.A12 Fig.A-7 5kg	P.A12 Fig.A-9 5kg	P.A12 Fig.A-10 5kg					
	1/ 375	4	4.8	20.6	2.1	1760	180											
	1/ 450	3.3	4	25.5	2.6	1760	180											
	1/ 600	2.5	3	33.3	3.4	1760	180											
1/ 750	2	2.4	42.1	4.3	1760	180												
1/ 900	1.7	2	50.0	5.1	1760	180												
1/1200	1.3	1.5	66.6	6.8	1760	180												
1/1500	1	1.2	83.3	8.5	1760	180												
1/1800	0.8	1	98.0	10	1760	180												

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A9.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
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- Option

**Model Code**  
P.A6

**Lead-Wire/Terminal Box Position Mark**  
P.E54

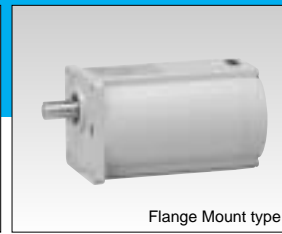
**Option**  
P.E110

# Gearmotor

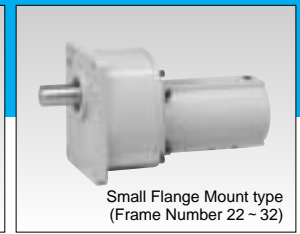
G-Type(Parallel Shaft) 3-Phase 15W



Foot Mount type



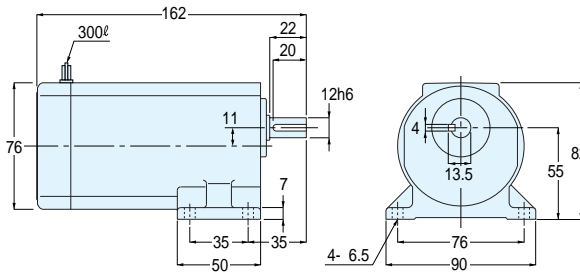
Flange Mount type



Small Flange Mount type  
(Frame Number 22 ~ 32)

## Foot Mount Type Gearmotor

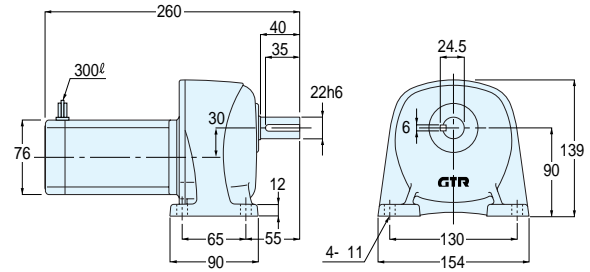
**Fig.A-1** GLM-12-5 ~ 240-T15  
GLM-12-5 ~ 240-T15W



[ Round Weight 2 kg ]

CAD Data: GLM-12-T15  
GLM-12-T15W

**Fig.A-2** GLM-22-300 ~ 1800-T15  
GLM-22-300 ~ 1800-T15W

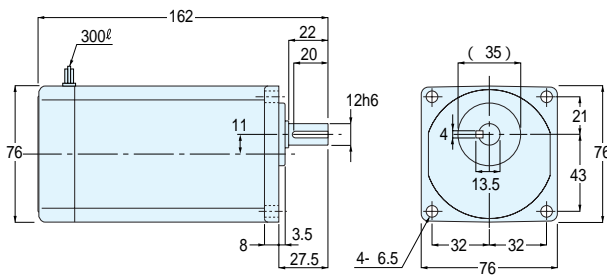


[ Round Weight 5 kg ]

CAD Data: GLM-22-T15  
GLM-22-T15W

## Flange Mount Type Gearmotor

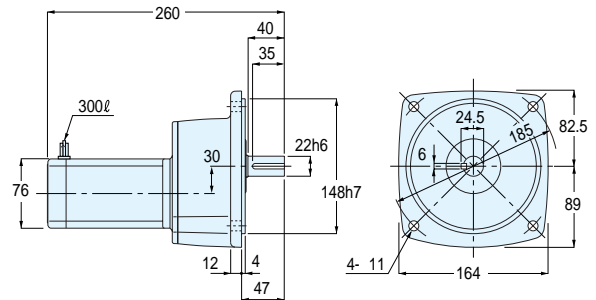
**Fig.A-3** GFM-12-5 ~ 240-T15  
GFM-12-5 ~ 240-T15W



[ Round Weight 2 kg ]

CAD Data: GFM-12-T15  
GFM-12-T15W

**Fig.A-4** GFM-22-300 ~ 1800-T15  
GFM-22-300 ~ 1800-T15W

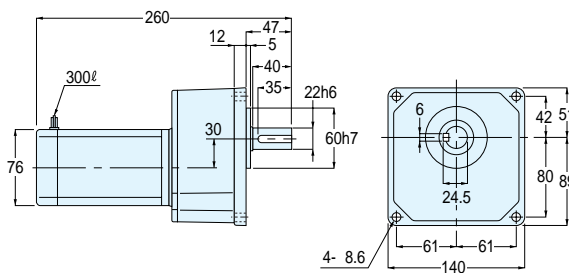


[ Round Weight 5 kg ]

CAD Data: GFM-22-T15  
GFM-22-T15W

## Small Flange Mount Type Gearmotor

**Fig.A-5** GKM-22-300 ~ 1800-T15  
GKM-22-300 ~ 1800-T15W



[ Round Weight 5 kg ]

CAD Data: GKM-22-T15  
GKM-22-T15W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

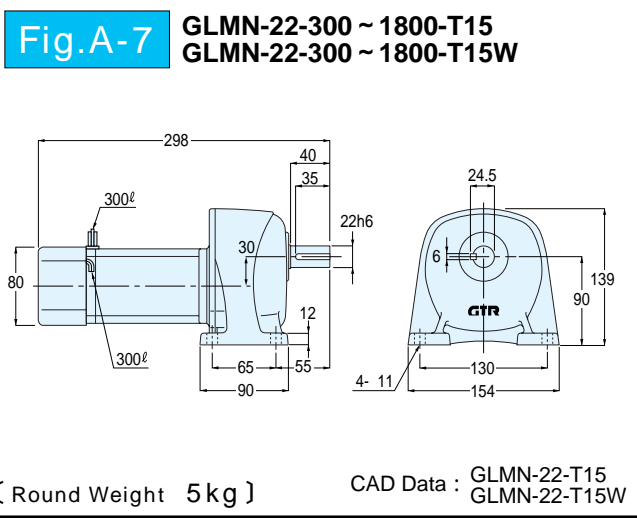
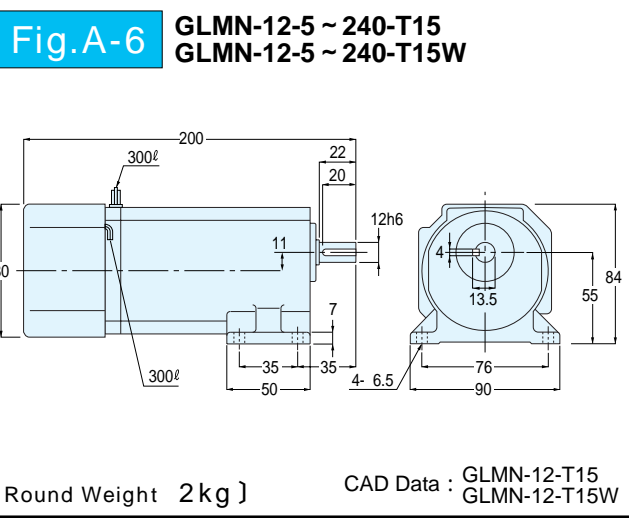
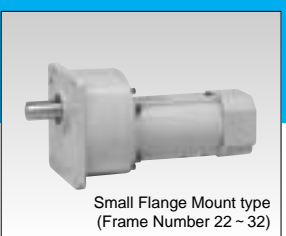
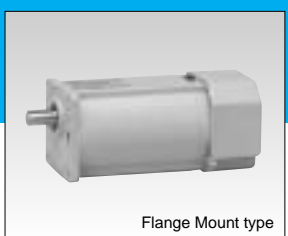
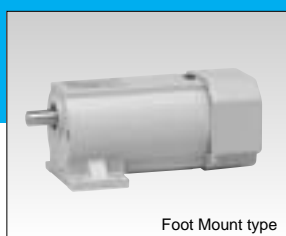
Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

GTR Mini Series

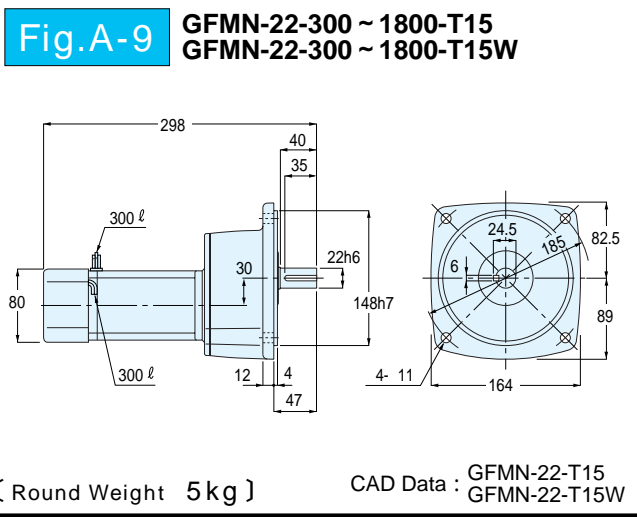
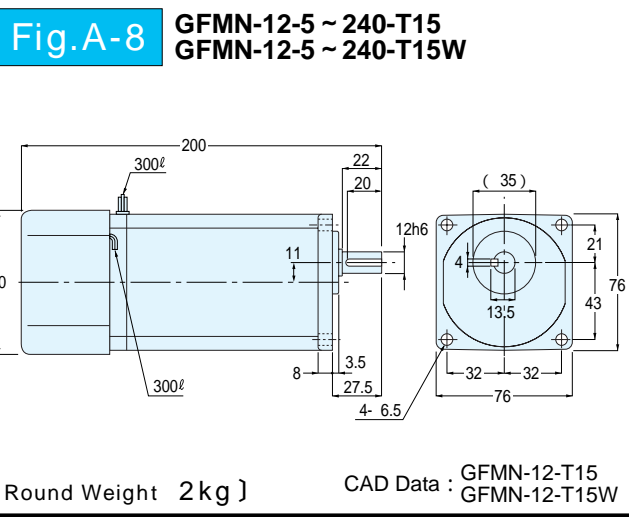
# Gearmotor with Brake

G-Type (Parallel Shaft) 3-Phase 15W

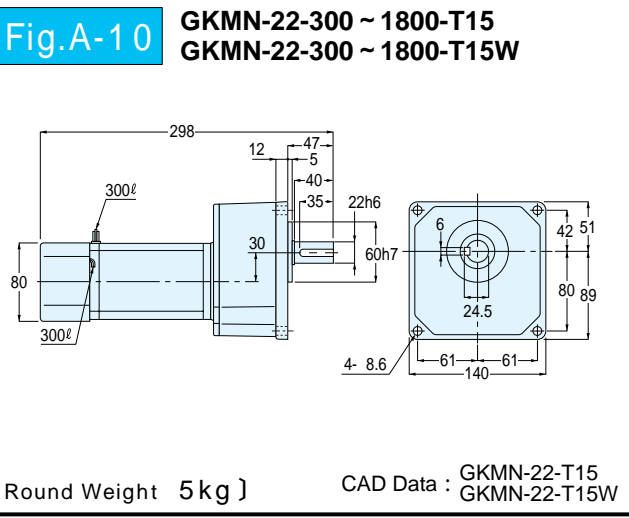
## Foot Mount Type Gearmotor with Brake



## Flange Mount Type Gearmotor with Brake



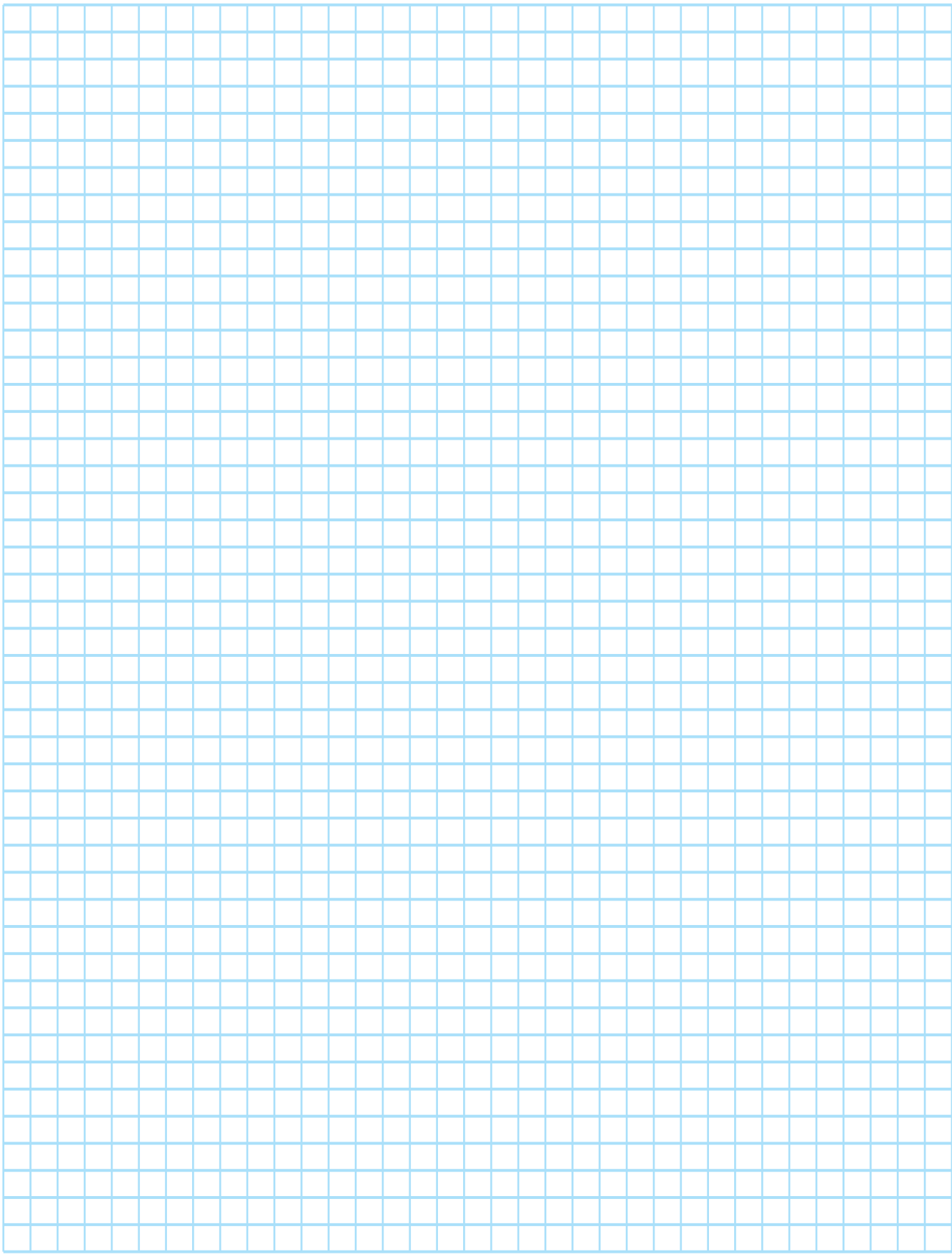
## Small Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
--------------------	--	------------------

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 25W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	T25	200/200/220	50/60/60	12	0.21/0.19/0.19	1350/1550/1600	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.18/0.17/0.17	1350/1550/1600		
					22	0.21/0.19/0.19	1350/1550/1600		
					28	0.18/0.17/0.17	1350/1550/1600		
Double Voltage (Continuous Rated 4 Poles)	25W	T25W	380/400/400/440	50/50/60/60	12	0.11/0.12/0.11/0.12	1350/1400/1600/1650	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.09/0.09/0.09/0.09	1300/1350/1550/1600		
					22	0.11/0.12/0.11/0.12	1350/1400/1600/1650		
					28	0.09/0.09/0.09/0.09	1350/1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight									
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake						
									GLM	GFM	GKM	GLMN	GFMN	GKMN				
3-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A15 Fig.A-11 2kg	P.A16 Fig.A-15 2kg	P.A17 Fig.A-21 2kg	P.A18 Fig.A-25 2kg						
		1/ 7.5	200	240	0.78	0.08	196	20										
		1/ 10	150	180	1.08	0.11	245	25										
		1/ 15	100	120	1.67	0.17	343	35										
		1/ 20	75	90	2.25	0.23	441	45										
		1/ 25	60	72	2.74	0.28	490	50										
		1/ 30	50	60	3.33	0.34	539	55										
		1/ 40	37.5	45	4.41	0.45	588	60										
		1/ 50	30	36	5.49	0.56	637	65										
		1/ 60	25	30	6.66	0.68	686	70										
	15	1/ 160	9.4	11.2	16.7	1.7	1080	110	P.A15 Fig.A-12 3kg	P.A16 Fig.A-16 3kg	P.A17 Fig.A-22 3kg	P.A18 Fig.A-26 3kg						
		1/ 200	7.5	9	20.6	2.1	1080	110										
		1/ 240	6.3	7.5	25.5	2.6	1080	110										
		1/ 300	5	6	28.4	2.9	1760	180										
		1/ 375	4	4.8	35.3	3.6	1760	180										
		1/ 450	3.3	4	42.1	4.3	1760	180										
	22	1/ 600	2.5	3	55.9	5.7	1760	180	P.A15 Fig.A-13 5kg	P.A16 Fig.A-17 5kg	P.A16 Fig.A-19 5kg	P.A17 Fig.A-23 5kg	P.A18 Fig.A-27 5kg	P.A18 Fig.A-29 5kg				
		1/ 750	2	2.4	69.6	7.1	1760	180										
		1/ 900	1.7	2	84.3	8.6	1760	180										
		1/1200	1.3	1.5	108	11	2740	280										
28	1/1500	1	1.2	137	14	2740	280	P.A15 Fig.A-14 7kg	P.A16 Fig.A-18 7kg	P.A16 Fig.A-20 7kg	P.A17 Fig.A-24 7kg	P.A18 Fig.A-28 7kg	P.A18 Fig.A-30 7kg					
	1/1800	0.8	1	167	17	2740	280											

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A9.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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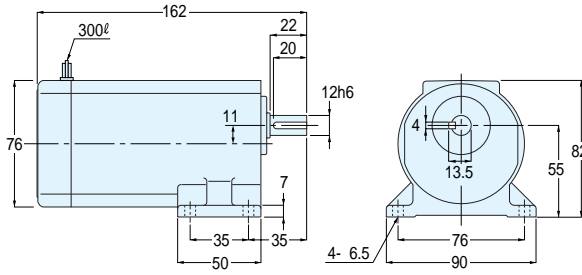
# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 25W

### Foot Mount Type Gearmotor



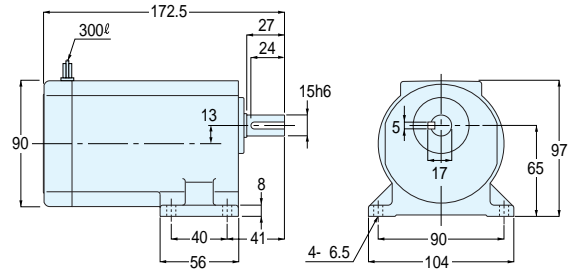
**Fig.M-11** GLM-12-5 ~ 120-T25  
GLM-12-5 ~ 120-T25W



[ Round Weight 2 kg ]

CAD Data : GLM-12-T25  
GLM-12-T25W

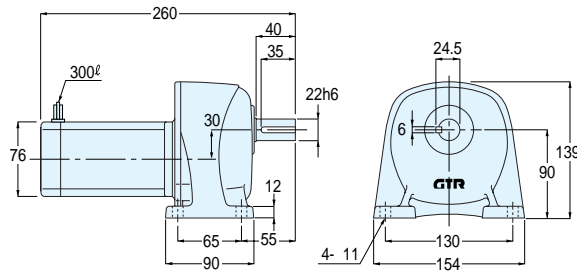
**Fig.M-12** GLM-15-160 ~ 240-T25  
GLM-15-160 ~ 240-T25W



[ Round Weight 3 kg ]

CAD Data : GLM-15-T25  
GLM-15-T25W

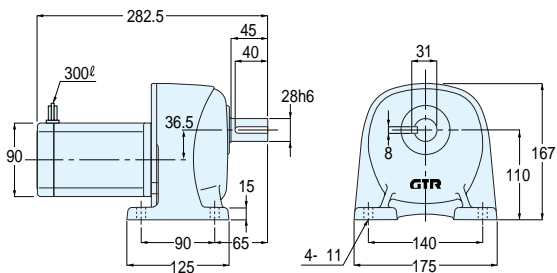
**Fig.M-13** GLM-22-300 ~ 900-T25  
GLM-22-300 ~ 900-T25W



[ Round Weight 5 kg ]

CAD Data : GLM-22-T25  
GLM-22-T25W

**Fig.M-14** GLM-28-1200 ~ 1800-T25  
GLM-28-1200 ~ 1800-T25W



[ Round Weight 7 kg ]

CAD Data : GLM-28-T25  
GLM-28-T25W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

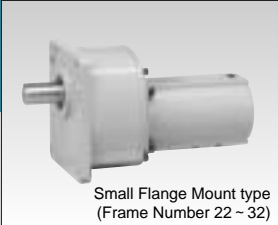
# Gearmotor

## G-Type (Parallel Shaft) 3-Phase 25W

### Flange Mount Type Gearmotor

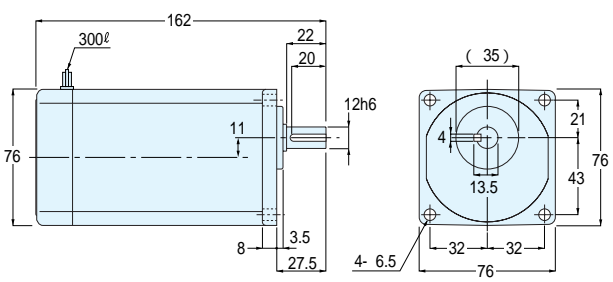


Flange Mount type



Small Flange Mount type  
(Frame Number 22 ~ 32)

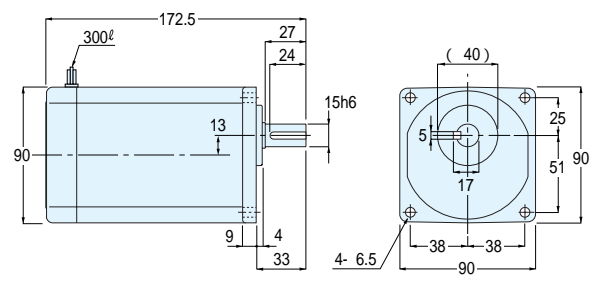
**Fig.A-15** GFM-12-5 ~ 120-T25  
GFM-12-5 ~ 120-T25W



[ Round Weight 2 kg ]

CAD Data : GFM-12-T25  
GFM-12-T25W

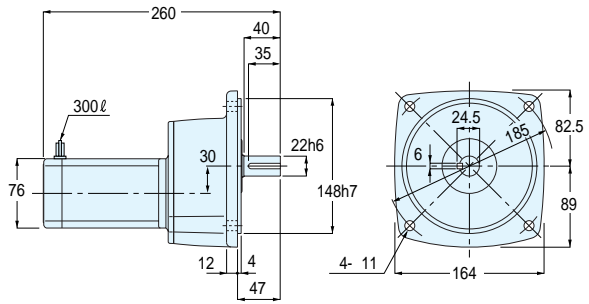
**Fig.A-16** GFM-15-160 ~ 240-T25  
GFM-15-160 ~ 240-T25W



[ Round Weight 3 kg ]

CAD Data : GFM-15-T25  
GFM-15-T25W

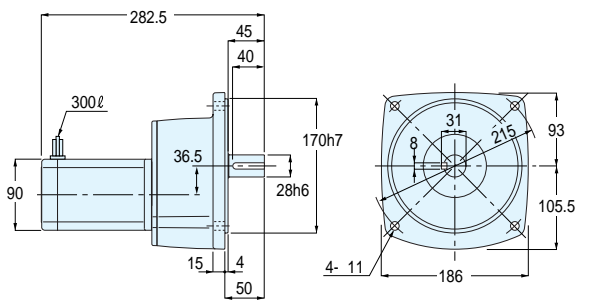
**Fig.A-17** GFM-22-300 ~ 900-T25  
GFM-22-300 ~ 900-T25W



[ Round Weight 5 kg ]

CAD Data : GFM-22-T25  
GFM-22-T25W

**Fig.A-18** GFM-28-1200 ~ 1800-T25  
GFM-28-1200 ~ 1800-T25W

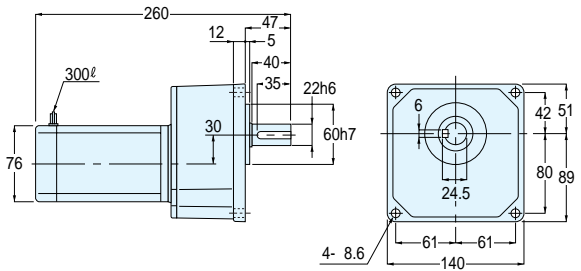


[ Round Weight 7 kg ]

CAD Data : GFM-28-T25  
GFM-28-T25W

### Small Flange Mount Type Gearmotor

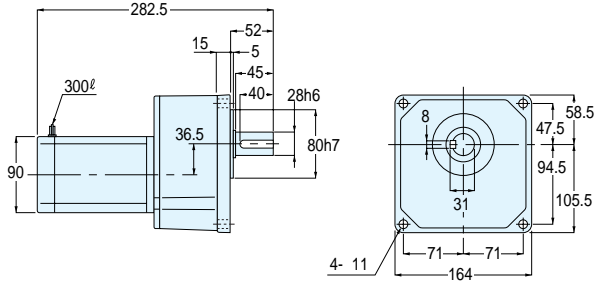
**Fig.A-19** GKM-22-300 ~ 900-T25  
GKM-22-300 ~ 900-T25W



[ Round Weight 5 kg ]

CAD Data : GKM-22-T25  
GKM-22-T25W

**Fig.A-20** GKM-28-1200 ~ 1800-T25  
GKM-28-1200 ~ 1800-T25W



[ Round Weight 7 kg ]

CAD Data : GKM-28-T25  
GKM-28-T25W

**Note**) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

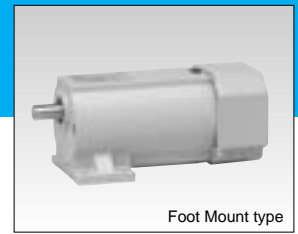
Option



# Gearmotor Gearmotor with Brake

## G-Type (Parallel Shaft) 3-Phase 25W

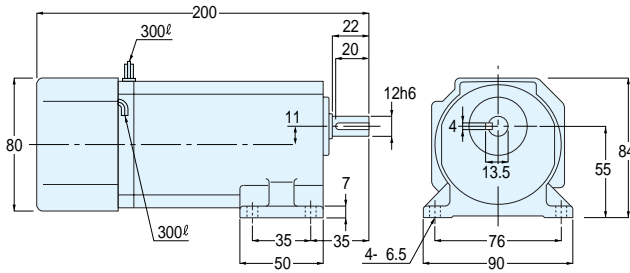
### Foot Mount Type Gearmotor with Brake



Foot Mount type

**Fig.A-21**

**GLMN-12-5 ~ 120-T25**  
**GLMN-12-5 ~ 120-T25W**

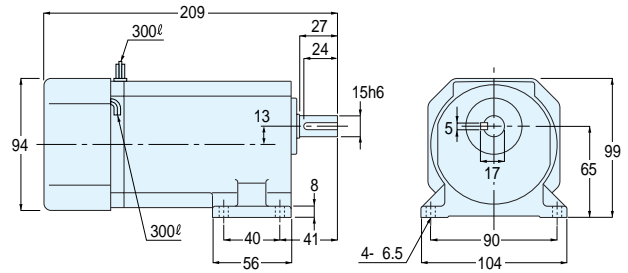


[ Round Weight 2 kg ]

CAD Data : GLMN-12-T25  
GLMN-12-T25W

**Fig.A-22**

**GLMN-15-160 ~ 240-T25**  
**GLMN-15-160 ~ 240-T25W**

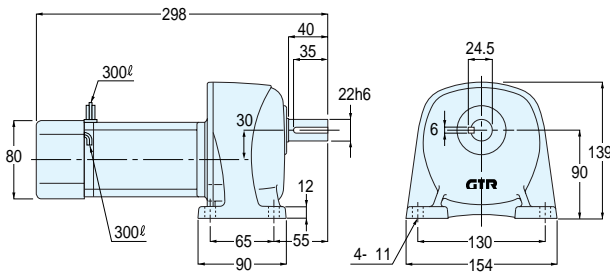


[ Round Weight 3 kg ]

CAD Data : GLMN-15-T25  
GLMN-15-T25W

**Fig.A-23**

**GLMN-22-300 ~ 900-T25**  
**GLMN-22-300 ~ 900-T25W**

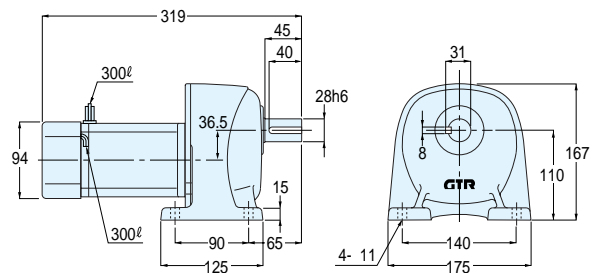


[ Round Weight 5 kg ]

CAD Data : GLMN-22-T25  
GLMN-22-T25W

**Fig.A-24**

**GLMN-28-1200 ~ 1800-T25**  
**GLMN-28-1200 ~ 1800-T25W**



[ Round Weight 7 kg ]

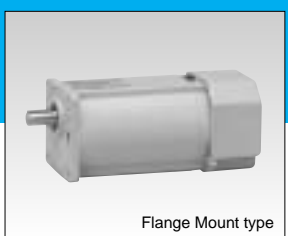
CAD Data : GLMN-28-T25  
GLMN-28-T25W

GTR Mini Series

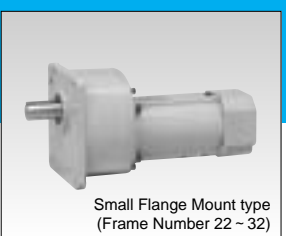
# Gearmotor with Brake

## G-Type(Parallel Shaft) 3-Phase 25W

### Flange Mount Type Gearmotor with Brake



Flange Mount type



Small Flange Mount type  
(Frame Number 22 ~ 32)

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

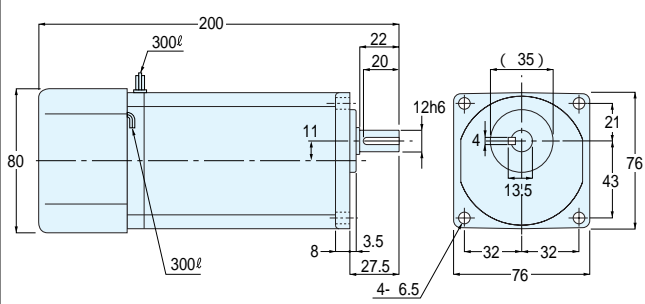
Technical  
Information

Standard  
Motors

Cautions  
for Safety

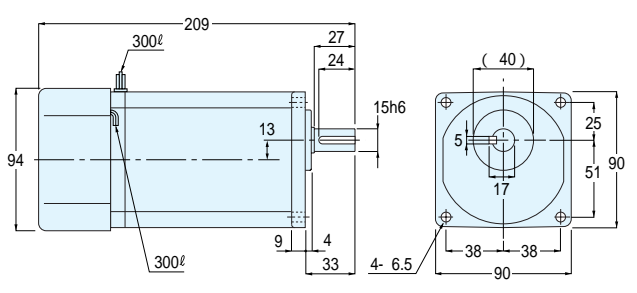
Option

**Fig.A-25** GFMN-12-5 ~ 120-T25  
GFMN-12-5 ~ 120-T25W



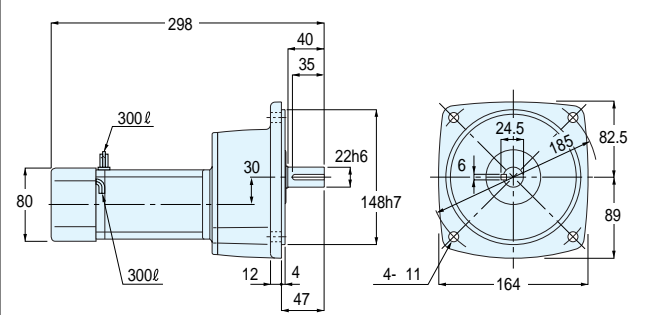
[ Round Weight 2 kg ] CAD Data : GFMN-12-T25  
GFMN-12-T25W

**Fig.A-26** GFMN-15-160 ~ 240-T25  
GFMN-15-160 ~ 240-T25W



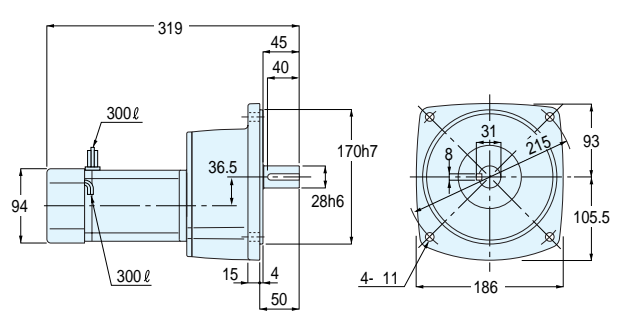
[ Round Weight 3 kg ] CAD Data : GFMN-15-T25  
GFMN-15-T25W

**Fig.A-27** GFMN-22-300 ~ 900-T25  
GFMN-22-300 ~ 900-T25W



[ Round Weight 5 kg ] CAD Data : GFMN-22-T25  
GFMN-22-T25W

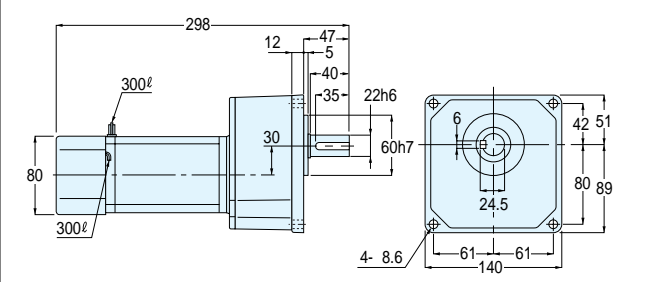
**Fig.A-28** GFMN-28-1200 ~ 1800-T25  
GFMN-28-1200 ~ 1800-T25W



[ Round Weight 7 kg ] CAD Data : GFMN-28-T25  
GFMN-28-T25W

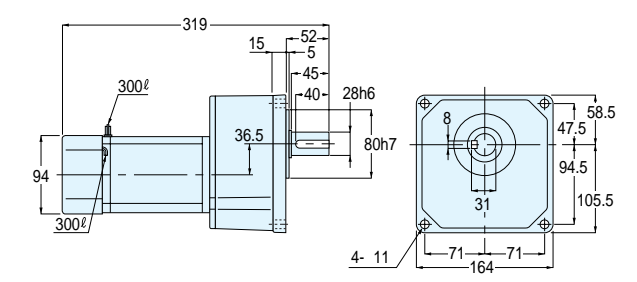
### Small Flange Mount Type Gearmotor with Brake

**Fig.A-29** GKMN-22-300 ~ 900-T25  
GKMN-22-300 ~ 900-T25W



[ Round Weight 5 kg ] CAD Data : GKMN-22-T25  
GKMN-22-T25W

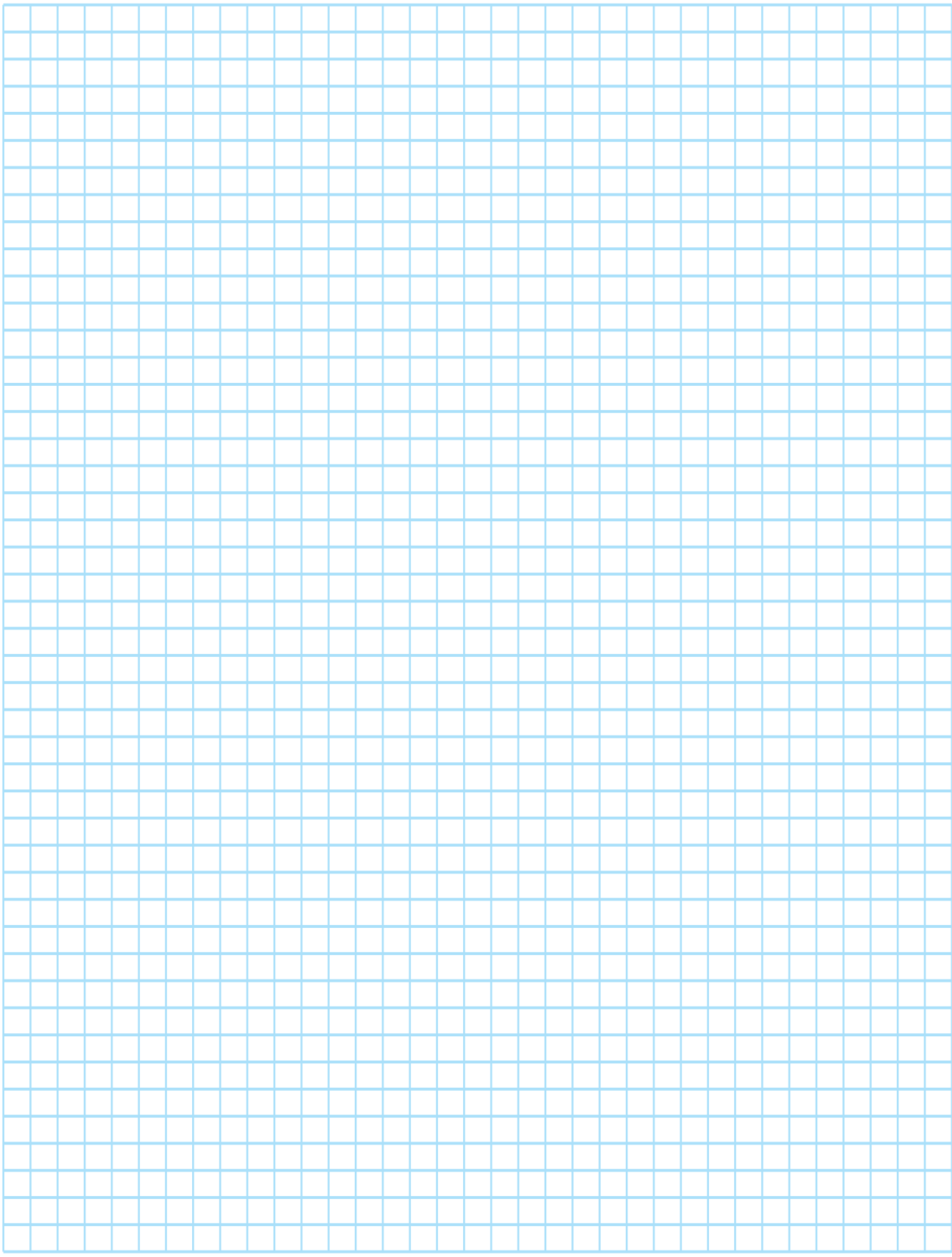
**Fig.A-30** GKMN-28-1200 ~ 1800-T25  
GKMN-28-1200 ~ 1800-T25W



[ Round Weight 7 kg ] CAD Data : GKMN-28-T25  
GKMN-28-T25W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 25W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	T40	200/200/220	50/60/60	12	0.29/0.27/0.27	1350/1550/1600	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.27/0.26/0.26	1350/1550/1550		
					18	0.21/0.21/0.21	1350/1550/1600		
					22	0.29/0.27/0.27	1350/1550/1600		
					28	0.27/0.26/0.26	1350/1550/1550		
Double Voltage (Continuous Rated 4 Poles)		T40W	380/400/400/440	50/50/60/60	12	0.14/0.14/0.14/0.14	1300/1350/1550/1600		
					15	0.13/0.14/0.13/0.14	1300/1350/1550/1600		
					18	0.10/0.10/0.10/0.10	1350/1400/1600/1650		
					22	0.14/0.14/0.14/0.14	1300/1350/1550/1600		
					28	0.13/0.14/0.13/0.14	1300/1350/1550/1600		
					32	0.13/0.14/0.13/0.14	1300/1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight						
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake			
									GLM	GFM	GKM	GLMN	GFMN	GKMN	
3-phase 40W	12	1/ 5	300	360	0.88	0.09	98	10	P.A21 Fig.A-31 (400V) 2kg	P.A22 Fig.A-39 Fig.A-40 (400V) 2kg	P.A24 Fig.A-51 2kg	P.A25 Fig.A-57 2kg			
		1/ 7.5	200	240	1.37	0.14	196	20							
		1/ 10	150	180	1.76	0.18	245	25							
		1/ 15	100	120	2.65	0.27	343	35							
		1/ 20	75	90	3.53	0.36	441	45							
		1/ 25	60	72	4.41	0.45	490	50							
		1/ 30	50	60	5.29	0.54	539	55							
		1/ 40	37.5	45	7.06	0.72	588	60							
		1/ 50	30	36	8.82	0.90	637	65							
	1/ 60	25	30	10.8	1.1	686	70								
	15	1/ 80	18.8	22.5	13.7	1.4	980	100	P.A21 Fig.A-33 3kg	P.A22 Fig.A-41 3kg	P.A24 Fig.A-52 3kg	P.A25 Fig.A-58 3kg			
		1/ 100	15	18	16.7	1.7	980	100							
		1/ 120	12.5	15	20.6	2.1	1080	110							
	18	1/ 160	9.4	11.2	26.5	2.7	1370	140	P.A21 Fig.A-34 4kg	P.A22 Fig.A-42 4kg	P.A24 Fig.A-53 4kg	P.A25 Fig.A-59 4kg			
		1/ 200	7.5	9	33.3	3.4	1370	140							
		1/ 240	6.3	7.5	40.2	4.1	1370	140							
	22	1/ 300	5	6	45.1	4.6	1760	180	P.A21 Fig.A-35 Fig.A-36 (400V) 5kg	P.A22 Fig.A-43 Fig.A-44 (400V) 5kg	P.A23 Fig.A-47 Fig.A-48 (400V) 5kg	P.A24 Fig.A-54 5kg	P.A25 Fig.A-60 5kg	P.A26 Fig.A-63 5kg	
		1/ 375	4	4.8	55.9	5.7	1760	180							
		1/ 450	3.3	4	67.6	6.9	1760	180							
	28	1/ 600	2.5	3	90.2	9.2	2740	280	P.A21 Fig.A-37 7kg	P.A23 Fig.A-45 7kg	P.A23 Fig.A-49 7kg	P.A24 Fig.A-55 7kg	P.A25 Fig.A-61 7kg	P.A26 Fig.A-64 7kg	
		1/ 750	2	2.4	118	12	2740	280							
		1/ 900	1.7	2	137	14	2740	280							
	32	1/1200	1.3	1.5	176	18	5100	520	P.A21 Fig.A-38 11kg	P.A23 Fig.A-46 11kg	P.A23 Fig.A-50 11kg	P.A24 Fig.A-56 11kg	P.A25 Fig.A-62 11kg	P.A26 Fig.A-65 11kg	
		1/1500	1	1.2	225	23	5100	520							
1/1800		0.8	1	274	28	5100	520								

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A9.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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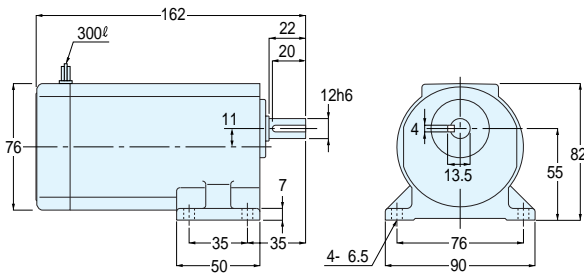
# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 40W

### Foot Mount Type Gearmotor



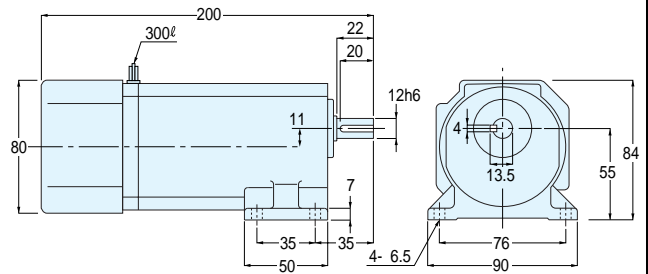
**Fig.A-31** GLM-12-5 ~ 60-T40



[ Round Weight 2 kg ]

CAD Data : GLM-12-T40

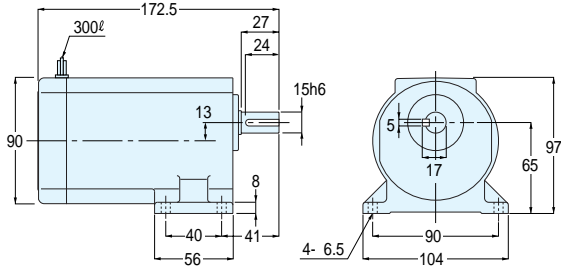
**Fig.A-32** GLM-12-5 ~ 60-T40W



[ Round Weight 2 kg ]

CAD Data : GLM-12-T40W

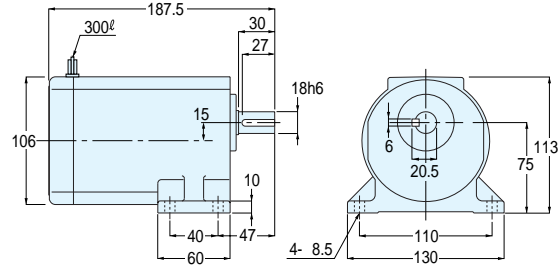
**Fig.A-33** GLM-15-80 ~ 120-T40  
GLM-15-80 ~ 120-T40W



[ Round Weight 3 kg ]

CAD Data : GLM-15-T40  
GLM-15-T40W

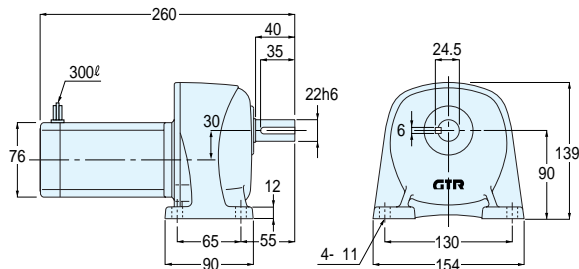
**Fig.A-34** GLM-18-160 ~ 240-T40  
GLM-18-160 ~ 240-T40W



[ Round Weight 4 kg ]

CAD Data : GLM-18-T40  
GLM-18-T40W

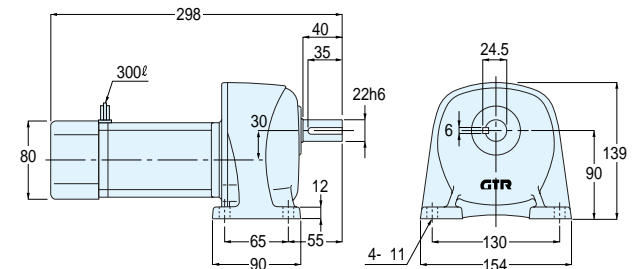
**Fig.A-35** GLM-22-300 ~ 450-T40



[ Round Weight 5 kg ]

CAD Data : GLM-22-T40

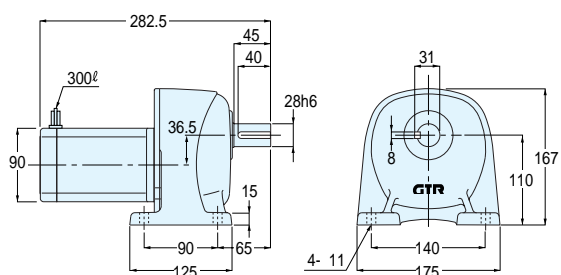
**Fig.A-36** GLM-22-300 ~ 450-T40W



[ Round Weight 5 kg ]

CAD Data : GLM-22-T40W

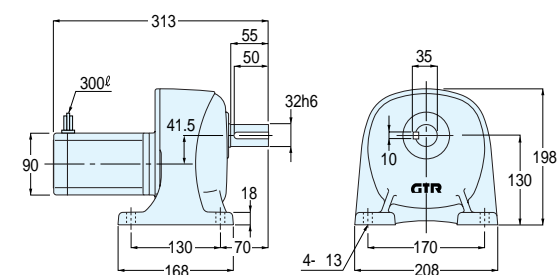
**Fig.A-37** GLM-28-600 ~ 900-T40  
GLM-28-600 ~ 900-T40W



[ Round Weight 7 kg ]

CAD Data : GLM-28-T40  
GLM-28-T40W

**Fig.A-38** GLM-32-1200 ~ 1800-T40  
GLM-32-1200 ~ 1800-T40W



[ Round Weight 11 kg ]

CAD Data : GLM-32-T40  
GLM-32-T40W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant -  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 40W

### Flange Mount Type Gearmotor



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

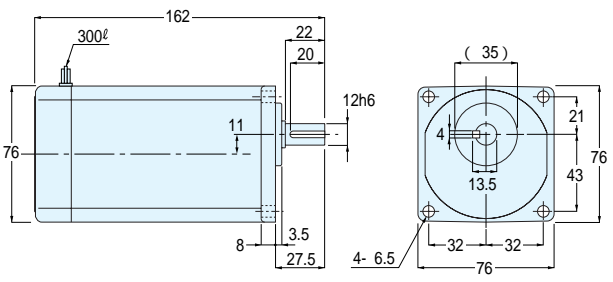
Technical  
Information

Standard  
Motors

Cautions  
for Safety

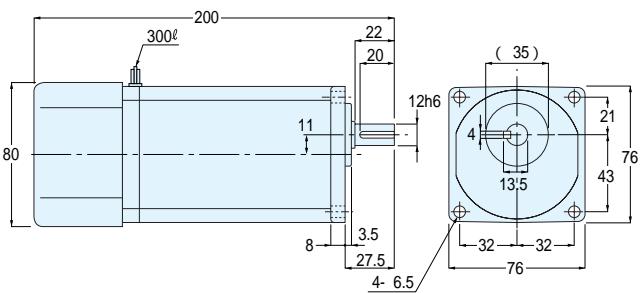
Option

**Fig.A-39 GFM-12-5 ~ 60-T40**



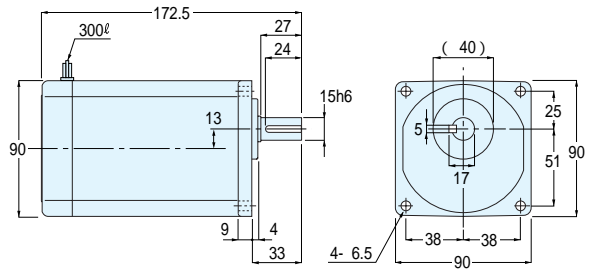
[ Round Weight 2 kg ] CAD Data : GFM-12-T40

**Fig.A-40 GFM-12-5 ~ 60-T40W**



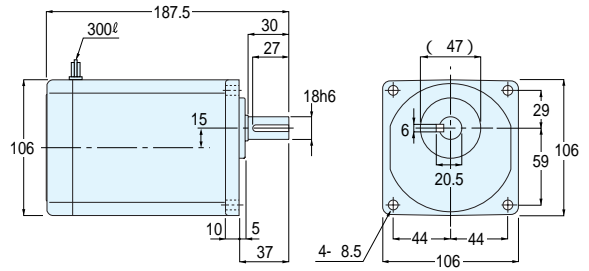
[ Round Weight 2 kg ] CAD Data : GFM-12-T40W

**Fig.A-41 GFM-15-80 ~ 120-T40  
GFM-15-80 ~ 120-T40W**



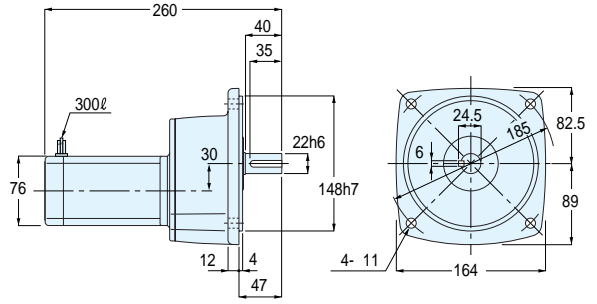
[ Round Weight 3 kg ] CAD Data : GFM-15-T40  
GFM-15-T40W

**Fig.A-42 GFM-18-160 ~ 240-T40  
GFM-18-160 ~ 240-T40W**



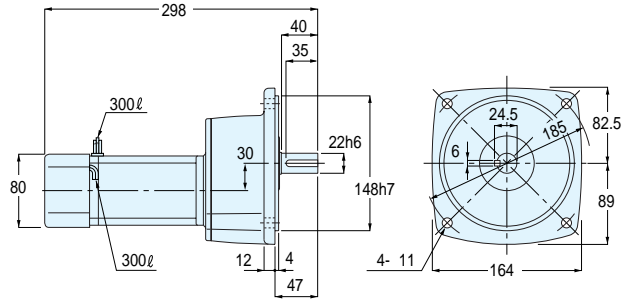
[ Round Weight 4 kg ] CAD Data : GFM-18-T40  
GFM-18-T40W

**Fig.A-43 GFM-22-300 ~ 450-T40**



[ Round Weight 5 kg ] CAD Data : GFM-22-T40

**Fig.A-44 GFM-22-300 ~ 450-T40W**



[ Round Weight 5 kg ] CAD Data : GFM-22-T40W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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Small Flange Mount type  
(Frame Number 22 ~ 32)

## Flange Mount Type Gearmotor

**Fig.A-45** GFM-28-600 ~ 900-T40  
GFM-28-600 ~ 900-T40W

[ Round Weight 7 kg ] CAD Data : GFM-28-T40  
GFM-28-T40W

**Fig.A-46** GFM-32-1200 ~ 1800-T40  
GFM-32-1200 ~ 1800-T40W

[ Round Weight 11 kg ] CAD Data : GFM-32-T40  
GFM-32-T40W

## Small Flange Mount Type Gearmotor

**Fig.A-47** GKM-22-300 ~ 450-T40

[ Round Weight 5 kg ] CAD Data : GKM-22-T40

**Fig.A-48** GKM-22-300 ~ 450-T40W

[ Round Weight 5 kg ] CAD Data : GKM-22-T40W

**Fig.A-49** GKM-28-600 ~ 900-T40  
GKM-28-600 ~ 900-T40W

[ Round Weight 7 kg ] CAD Data : GKM-28-T40  
GKM-28-T40W

**Fig.A-50** GKM-32-1200 ~ 1800-T40  
GKM-32-1200 ~ 1800-T40W

[ Round Weight 11 kg ] CAD Data : GKM-32-T40  
GKM-32-T40W

Parallel Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

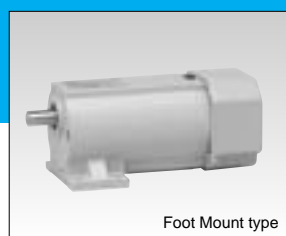
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type [Parallel Shaft] 3-Phase 40W

### Foot Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-51** GLMN-12-5 ~ 60-T40  
GLMN-12-5 ~ 60-T40W

[ Round Weight 2 kg ] CAD Data : GLMN-12-T40  
GLMN-12-T40W

**Fig.A-52** GLMN-15-80 ~ 120-T40  
GLMN-15-80 ~ 120-T40W

[ Round Weight 3 kg ] CAD Data : GLMN-15-T40  
GLMN-15-T40W

**Fig.A-53** GLMN-18-160 ~ 240-T40  
GLMN-18-160 ~ 240-T40W

[ Round Weight 4 kg ] CAD Data : GLMN-18-T40  
GLMN-18-T40W

**Fig.A-54** GLMN-22-300 ~ 450-T40  
GLMN-22-300 ~ 450-T40W

[ Round Weight 5 kg ] CAD Data : GLMN-22-T40  
GLMN-22-T40W

**Fig.A-55** GLMN-28-600 ~ 900-T40  
GLMN-28-600 ~ 900-T40W

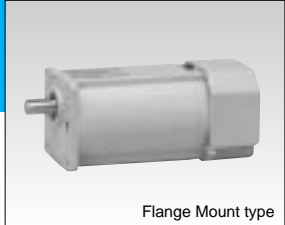
[ Round Weight 7 kg ] CAD Data : GLMN-28-T40  
GLMN-28-T40W

**Fig.A-56** GLMN-32-1200 ~ 1800-T40  
GLMN-32-1200 ~ 1800-T40W

[ Round Weight 11 kg ] CAD Data : GLMN-32-T40  
GLMN-32-T40W

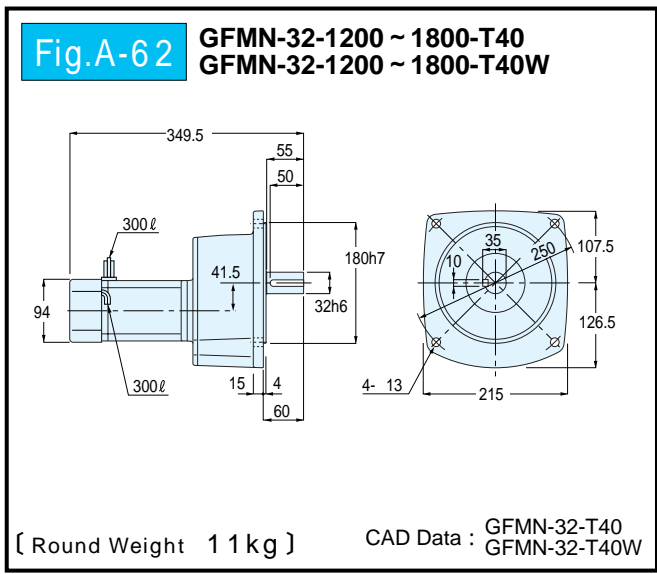
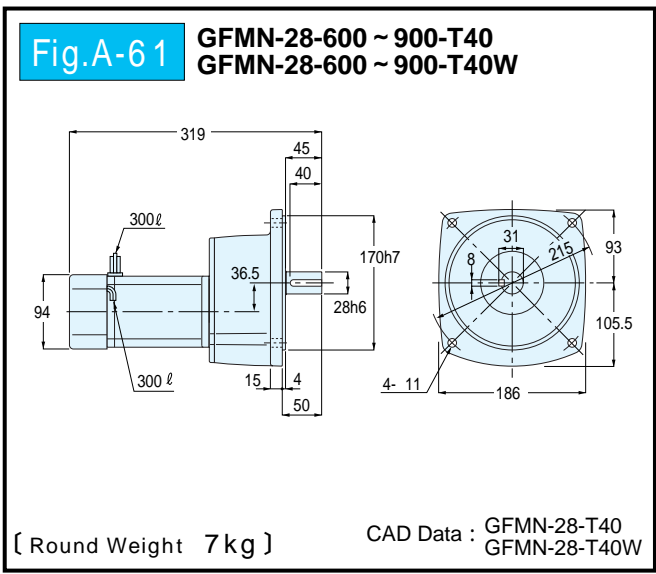
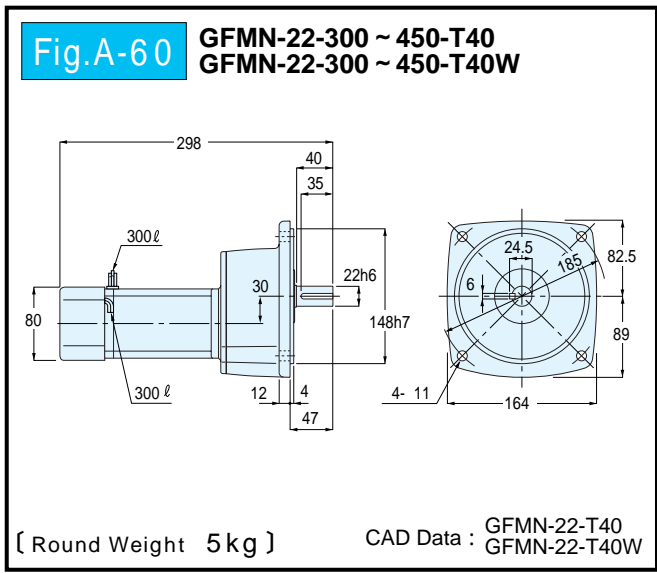
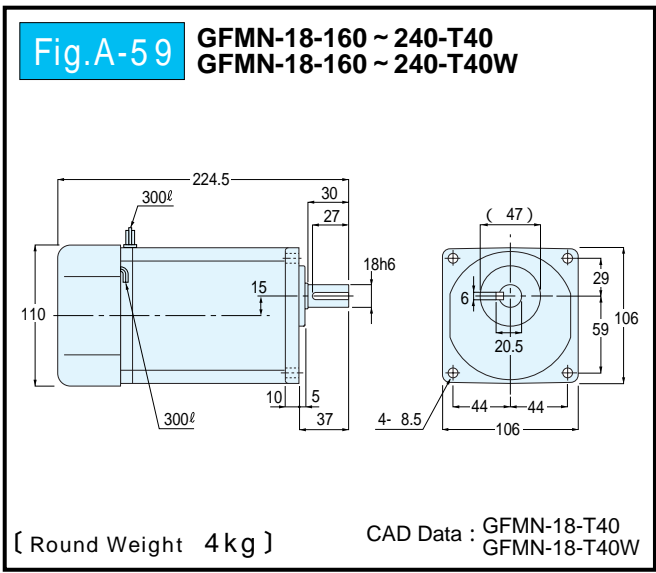
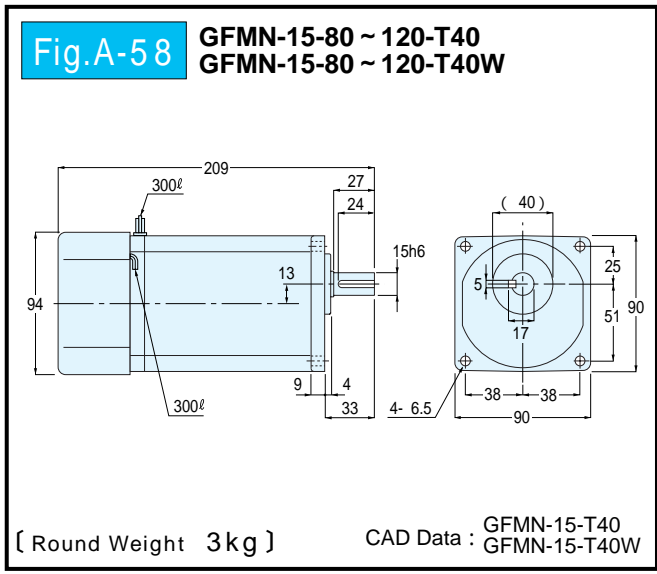
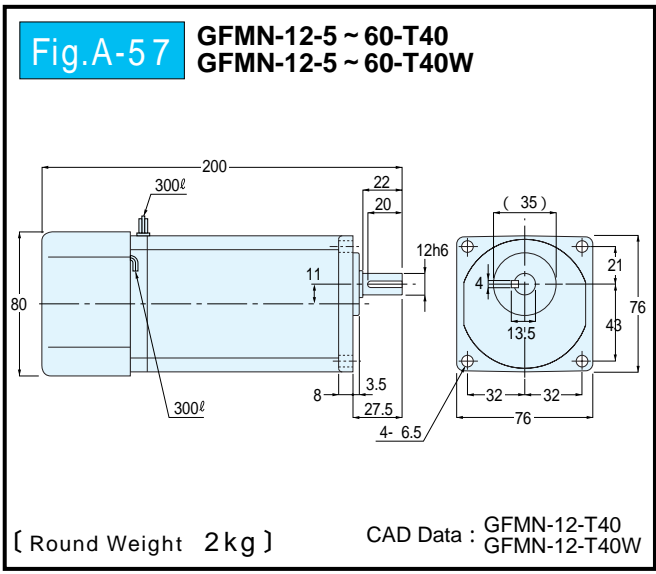
- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110





Flange Mount type

## Flange Mount Type Gearmotor with Brake



**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

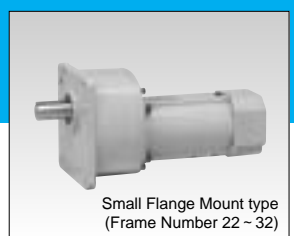
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 40W

### Small Flange Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-63** GKMN-22-300 ~ 450-T40  
GKMN-22-300 ~ 450-T40W

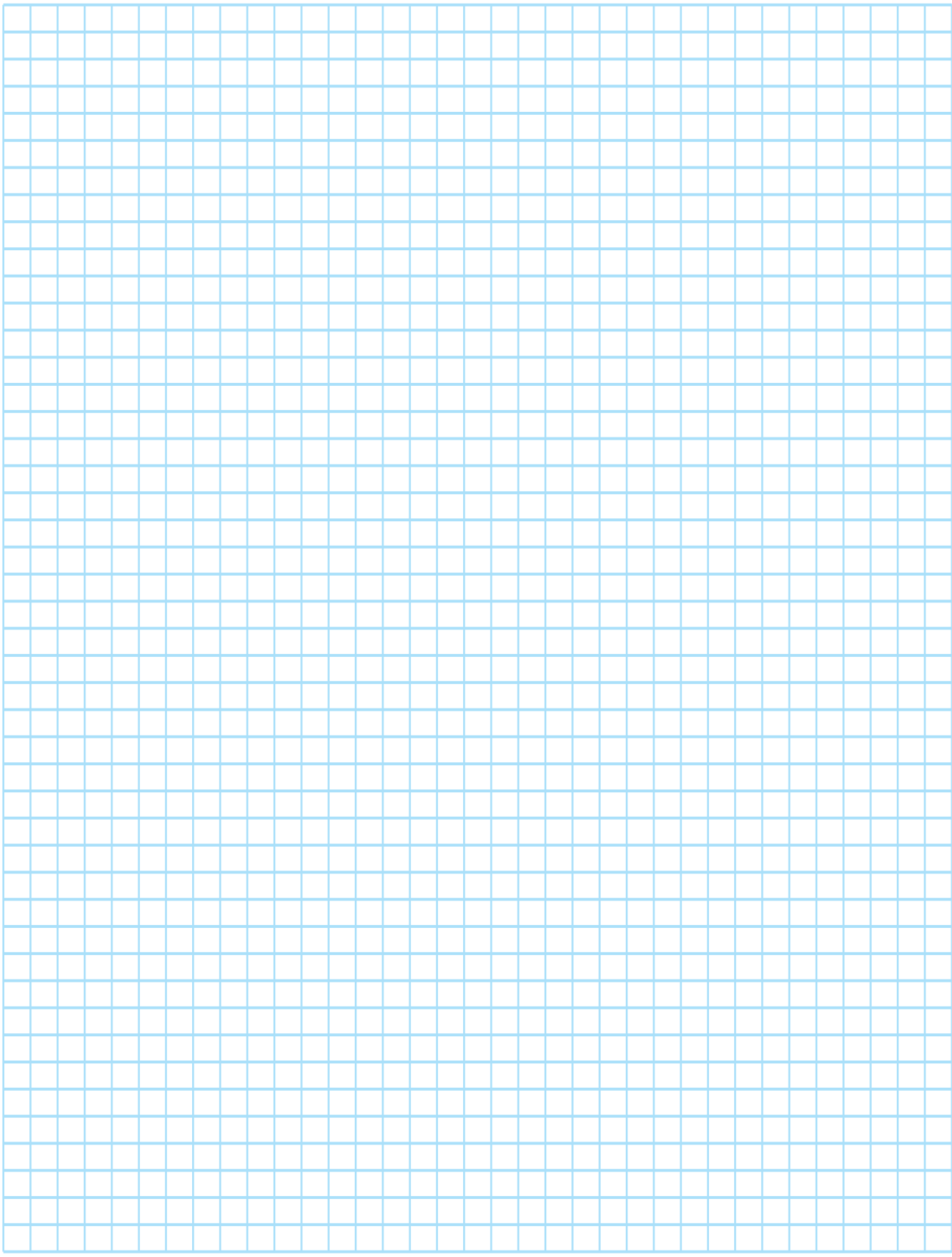
[ Round Weight 5 kg ] CAD Data : GKMN-22-T40  
GKMN-22-T40W

**Fig.A-64** GKMN-28-600 ~ 900-T40  
GKMN-28-600 ~ 900-T40W

[ Round Weight 7 kg ] CAD Data : GKMN-28-T40  
GKMN-28-T40W

**Fig.A-65** GKMN-32-1200 ~ 1800-T40  
GKMN-32-1200 ~ 1800-T40W

[ Round Weight 11 kg ] CAD Data : GKMN-32-T40  
GKMN-32-T40W



Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 60W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	T60	200/200/220	50/60/60	12	0.42/0.39/0.39	1350/1550/1550	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.40/0.36/0.36	1350/1550/1600		
					18	0.33/0.33/0.33	1350/1550/1600		
					22	0.42/0.39/0.39	1350/1550/1550		
					28	0.40/0.36/0.36	1350/1550/1600		
Double Voltage (Continuous Rated 4 Poles)		T60W	380/400/400/440	50/50/60/60	15	0.17/0.17/0.17/0.17	1300/1350/1550/1600		
					18	0.16/0.16/0.16/0.16	1350/1400/1600/1650		
					22	0.20/0.20/0.20/0.20	1250/1300/1500/1550		
					28	0.17/0.17/0.17/0.17	1300/1350/1550/1600		
					32	0.17/0.17/0.17/0.17	1300/1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight					
			50Hz	60Hz	N*m	kgf*m	N	kgf	Gearmotor			Gearmotor with Brake		
									GLM	GFM	GKM	GLMN	GFMN	GKMN
3-phase 60W	12 15	1/ 5	300	360	1.37	0.14	98	10	P.A29 Fig.A-66 2kg	P.A30 Fig.A-72 2kg	P.A31 Fig.A-73 2kg	P.A32 Fig.A-81 2kg	P.A33 Fig.A-87 2kg	P.A34 Fig.A-93 2kg
		1/ 7.5	200	240	2.06	0.21	196	20						
		1/ 10	150	180	2.74	0.28	245	25						
		1/ 15	100	120	4.12	0.42	343	35						
		1/ 20	75	90	5.49	0.56	441	45						
		1/ 25	60	72	6.96	0.71	490	50						
	15	1/ 30	50	60	8.33	0.85	539	55	P.A29 Fig.A-66 3kg (Frame No.15)	P.A30 Fig.A-73 3kg (Frame No.15)	P.A31 Fig.A-78 3kg (Frame No.15)	P.A32 Fig.A-82 3kg (Frame No.15)	P.A33 Fig.A-88 3kg (Frame No.15)	P.A34 Fig.A-94 3kg (Frame No.15)
		1/ 40	37.5	45	10.8	1.1	784	80						
		1/ 50	30	36	13.7	1.4	882	90						
	18	1/ 60	25	30	16.7	1.7	882	90	P.A29 Fig.A-67 3kg	P.A30 Fig.A-73 3kg	P.A31 Fig.A-78 3kg	P.A32 Fig.A-82 3kg	P.A33 Fig.A-88 3kg	P.A34 Fig.A-93 3kg
		1/ 80	18.8	22.5	20.6	2.1	1270	130						
		1/ 100	15	18	26.5	2.7	1270	130						
		1/ 120	12.5	15	31.4	3.2	1370	140						
		1/ 160	9.4	11.2	42.1	4.3	1370	140						
		* 1/ 240	6.3	7.5	53.9	5.5	1370	140						
	22	1/ 300	5	6	70.6	7.2	1760	180	P.A29 Fig.A-69 5kg	P.A30 Fig.A-75 5kg	P.A31 Fig.A-78 5kg	P.A32 Fig.A-84 5kg	P.A33 Fig.A-90 5kg	P.A34 Fig.A-93 5kg
		1/ 375	4	4.8	88.2	9.0	1760	180						
		1/ 450	3.3	4	108	11	1760	180						
	28	1/ 600	2.5	3	137	14	2740	280	P.A29 Fig.A-70 7kg	P.A30 Fig.A-76 7kg	P.A31 Fig.A-79 7kg	P.A32 Fig.A-85 7kg	P.A33 Fig.A-91 7kg	P.A34 Fig.A-94 7kg
		1/ 750	2	2.4	176	18	2740	280						
		1/ 900	1.7	2	216	22	2740	280						
	32	1/1200	1.3	1.5	284	29	5100	520	P.A29 Fig.A-71 11kg	P.A30 Fig.A-77 11kg	P.A31 Fig.A-80 11kg	P.A32 Fig.A-86 11kg	P.A33 Fig.A-92 11kg	P.A34 Fig.A-95 11kg
		1/1500	1	1.2	353	36	5100	520						
		1/1800	0.8	1	421	43	5100	520						

**Note)** As for reduction ratio 1/5 to 1/30, the frame number will be "12" for the standard voltage, "15" for other voltages.  
 The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A9.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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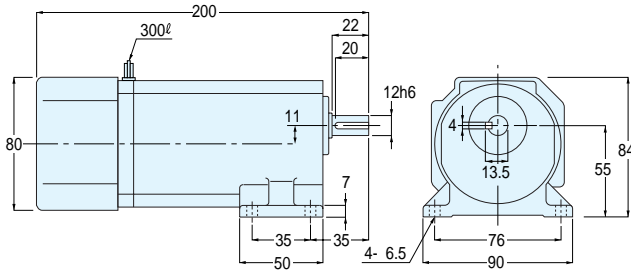
# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 60W

### Foot Mount Type Gearmotor

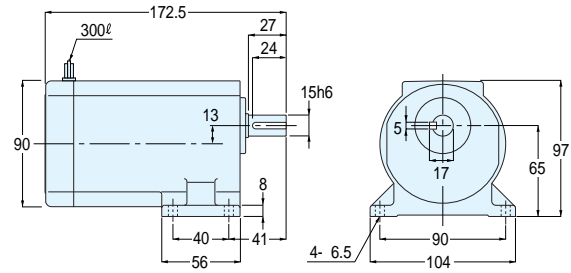


**Fig.A-66** GLM-12-5 ~ 30-T60



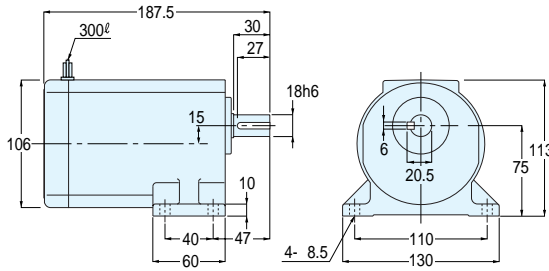
[ Round Weight 2 kg ] CAD Data : GLM-12-T60

**Fig.A-67** GLM-15-40 ~ 60-T60  
GLM-15-5 ~ 60-T60W



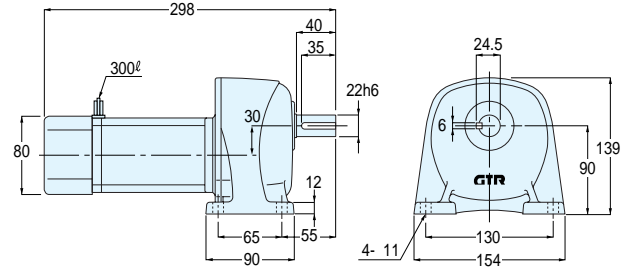
[ Round Weight 3 kg ] CAD Data : GLM-15-T60  
GLM-15-T60W

**Fig.A-68** GLM-18-80 ~ 240-T60  
GLM-18-80 ~ 240-T60W



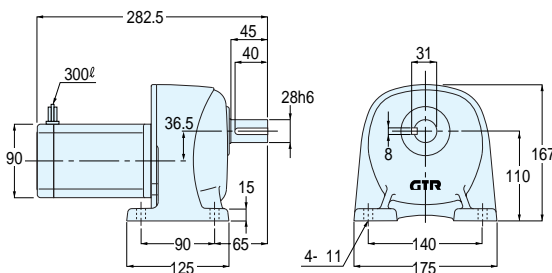
[ Round Weight 4 kg ] CAD Data : GLM-18-T60  
GLM-18-T60W

**Fig.A-69** GLM-22-300 ~ 450-T60  
GLM-22-300 ~ 450-T60W



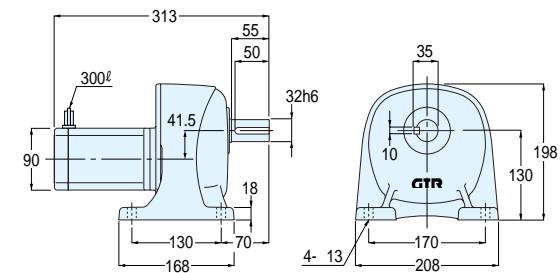
[ Round Weight 5 kg ] CAD Data : GLM-22-T60  
GLM-22-T60W

**Fig.A-70** GLM-28-600 ~ 900-T60  
GLM-28-600 ~ 900-T60W



[ Round Weight 7 kg ] CAD Data : GLM-28-T60  
GLM-28-T60W

**Fig.A-71** GLM-32-1200 ~ 1800-T60  
GLM-32-1200 ~ 1800-T60W



[ Round Weight 11 kg ] CAD Data : GLM-32-T60  
GLM-32-T60W

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 60W

### Flange Mount Type Gearmotor



Flange Mount type

Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

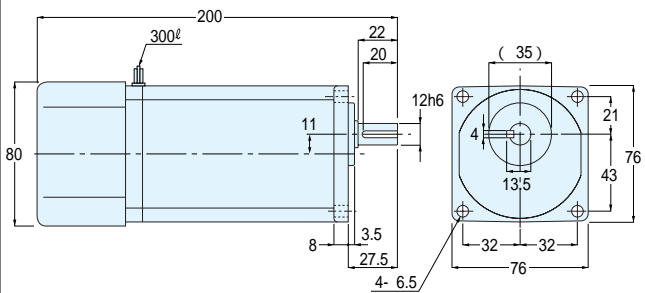
Technical Information

Standard Motors

Cautions for Safety

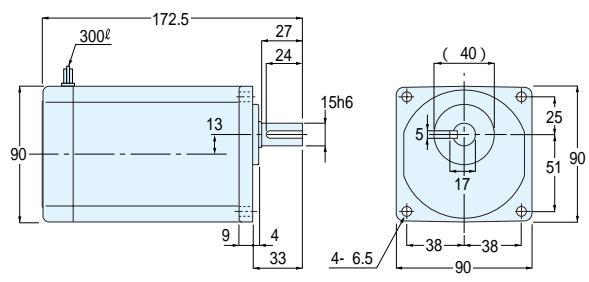
Option

**Fig.A-72** GFM-12-5 ~ 30-T60



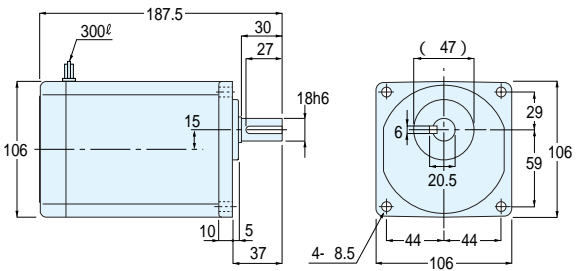
[ Round Weight 2 kg ] CAD Data : GFM-12-T60

**Fig.A-73** GFM-15-40 ~ 60-T60  
GFM-15-5 ~ 60-T60W



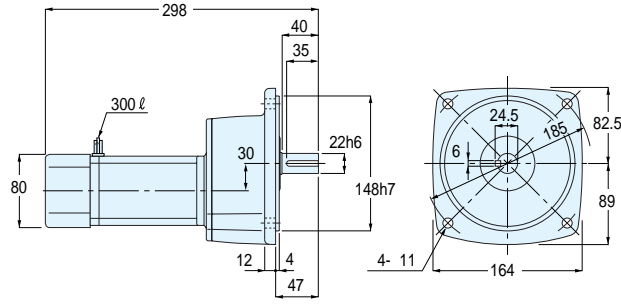
[ Round Weight 3 kg ] CAD Data : GFM-15-T60  
GFM-15-T60W

**Fig.A-74** GFM-18-80 ~ 240-T60  
GFM-18-80 ~ 240-T60W



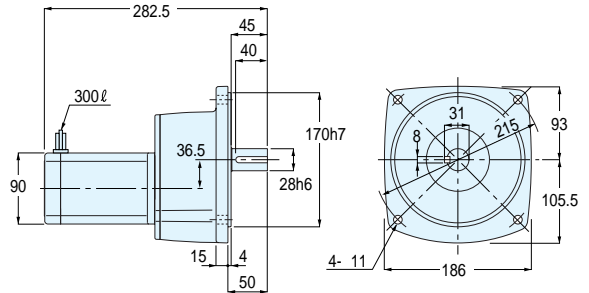
[ Round Weight 4 kg ] CAD Data : GFM-18-T60  
GFM-18-T60W

**Fig.A-75** GFM-22-300 ~ 450-T60  
GFM-22-300 ~ 450-T60W



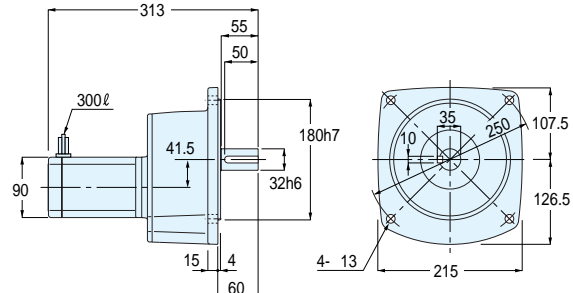
[ Round Weight 5 kg ] CAD Data : GFM-22-T60  
GFM-22-T60W

**Fig.A-76** GFM-28-600 ~ 900-T60  
GFM-28-600 ~ 900-T60W



[ Round Weight 7 kg ] CAD Data : GFM-28-T60  
GFM-28-T60W

**Fig.A-77** GFM-32-1200 ~ 1800-T60  
GFM-32-1200 ~ 1800-T60W



[ Round Weight 11 kg ] CAD Data : GFM-32-T60  
GFM-32-T60W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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Small Flange Mount type  
(Frame Number 22 ~ 32)

## Small Flange Mount Type Gearmotor

**Fig.A-78** GKM-22-300 ~ 450-T60  
GKM-22-300 ~ 450-T60W

[ Round Weight 5 kg ] CAD Data : GKM-22-T60  
GKM-22-T60W

**Fig.A-79** GKM-28-600 ~ 900-T60  
GKM-28-600 ~ 900-T60W

[ Round Weight 7 kg ] CAD Data : GKM-28-T60  
GKM-28-T60W

**Fig.A-80** GKM-32-1200 ~ 1800-T60  
GKM-32-1200 ~ 1800-T60W

[ Round Weight 11 kg ] CAD Data : GKM-32-T60  
GKM-32-T60W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

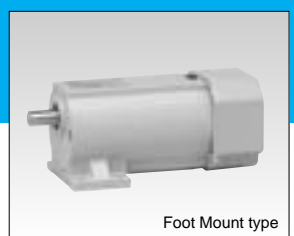
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type [Parallel Shaft] 3-Phase 60W

### Foot Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-81 GLMN-12-5 ~ 30-T60**

[ Round Weight 2 kg ] CAD Data : GLMN-12-T60

**Fig.A-82 GLMN-15-40 ~ 60-T60  
GLMN-15-5 ~ 60-T60W**

[ Round Weight 3 kg ] CAD Data : GLMN-15-T60  
GLMN-15-T60W

**Fig.A-83 GLMN-18-80 ~ 240-T60  
GLMN-18-80 ~ 240-T60W**

[ Round Weight 4 kg ] CAD Data : GLMN-18-T60  
GLMN-18-T60W

**Fig.A-84 GLMN-22-300 ~ 450-T60  
GLMN-22-300 ~ 450-T60W**

[ Round Weight 5 kg ] CAD Data : GLMN-22-T60  
GLMN-22-T60W

**Fig.A-85 GLMN-28-600 ~ 900-T60  
GLMN-28-600 ~ 900-T60W**

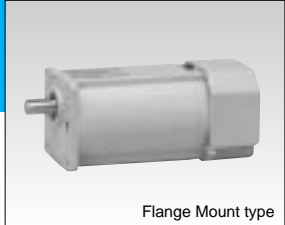
[ Round Weight 7 kg ] CAD Data : GLMN-28-T60  
GLMN-28-T60W

**Fig.A-86 GLMN-32-1200 ~ 1800-T60  
GLMN-32-1200 ~ 1800-T60W**

[ Round Weight 11 kg ] CAD Data : GLMN-32-T60  
GLMN-32-T60W

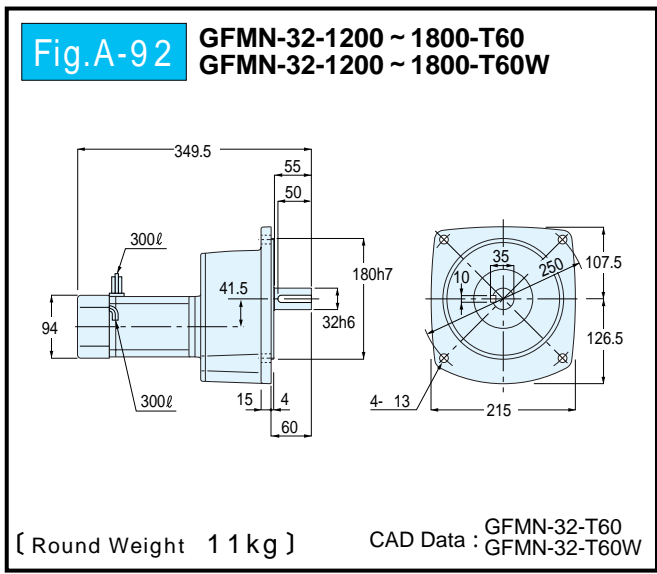
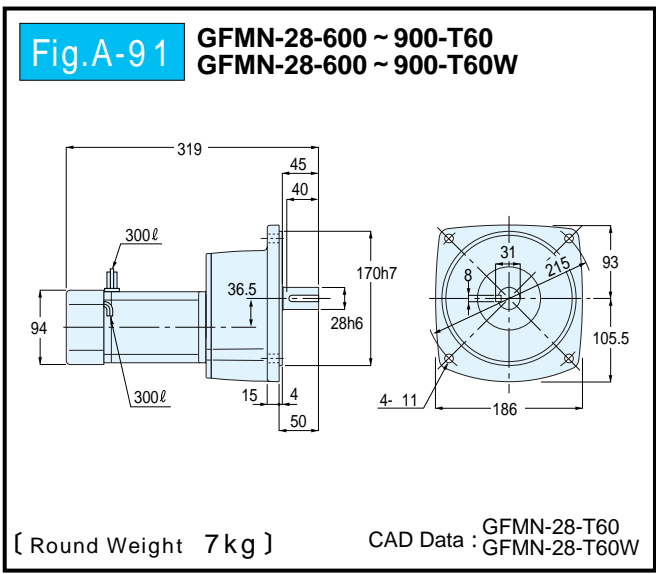
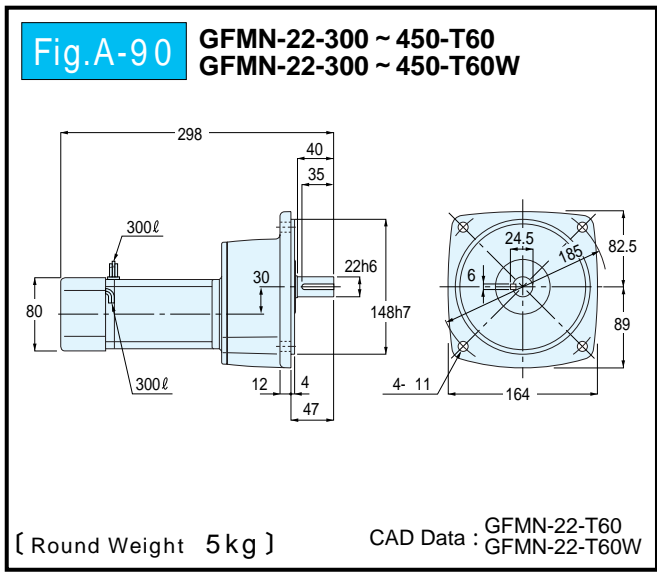
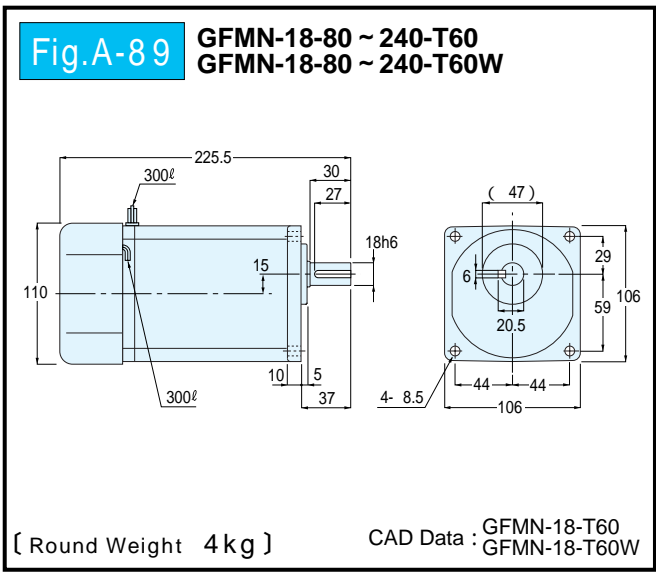
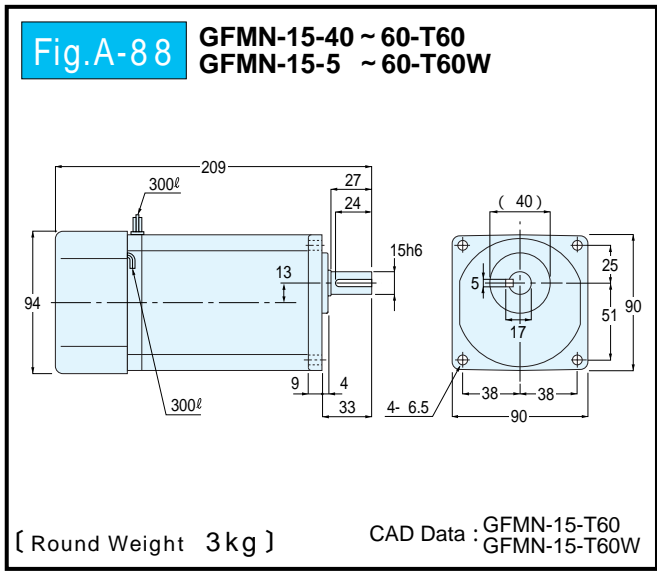
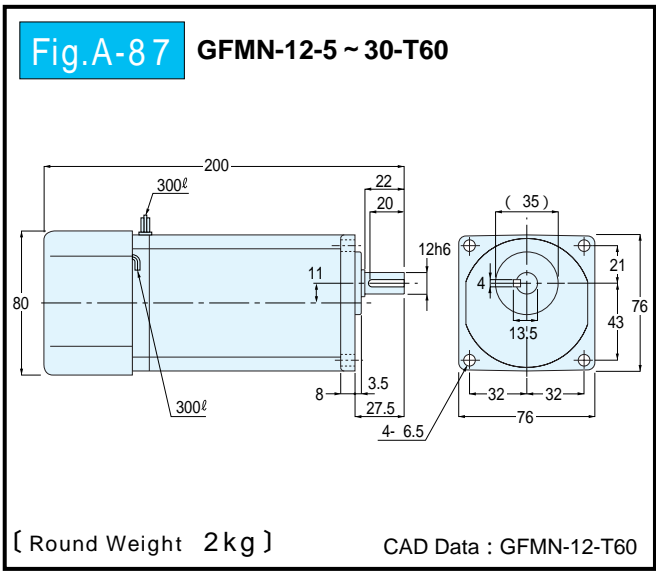
- Model Code**  
P.A6
- Lead-Wire/Terminal Box  
Position Mark**  
P.E54
- Option**  
P.E110





Flange Mount type

## Flange Mount Type Gearmotor with Brake



**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

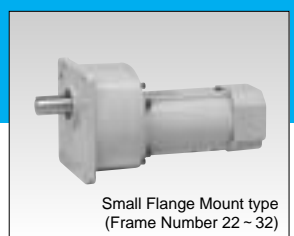
Option

GTR Mini Series

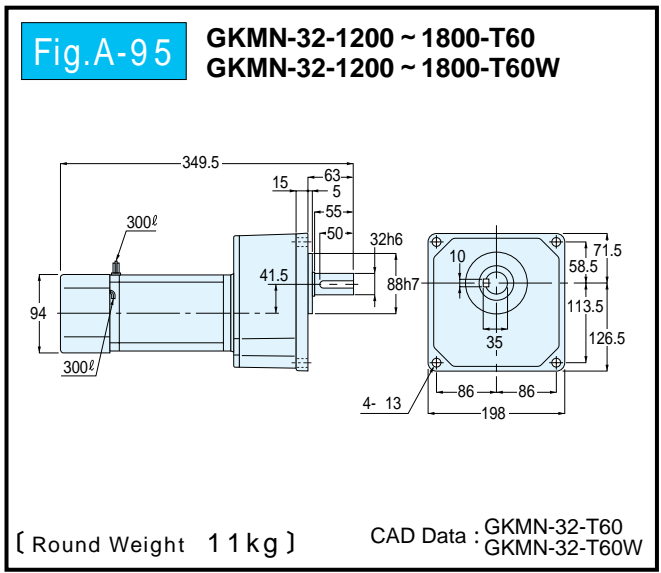
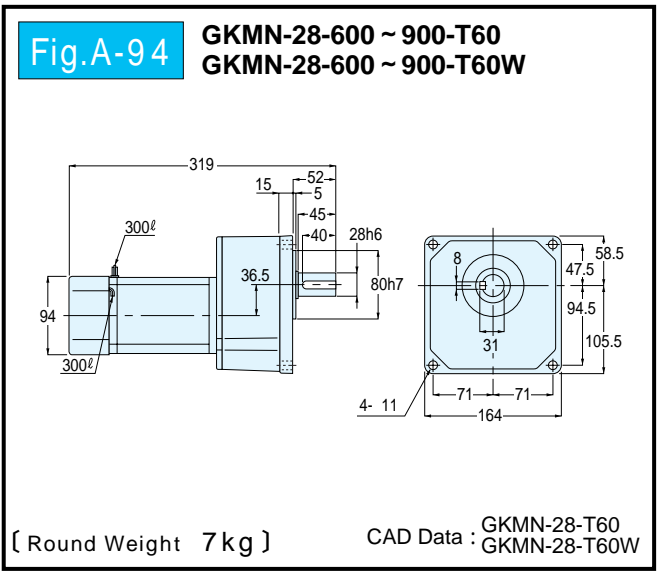
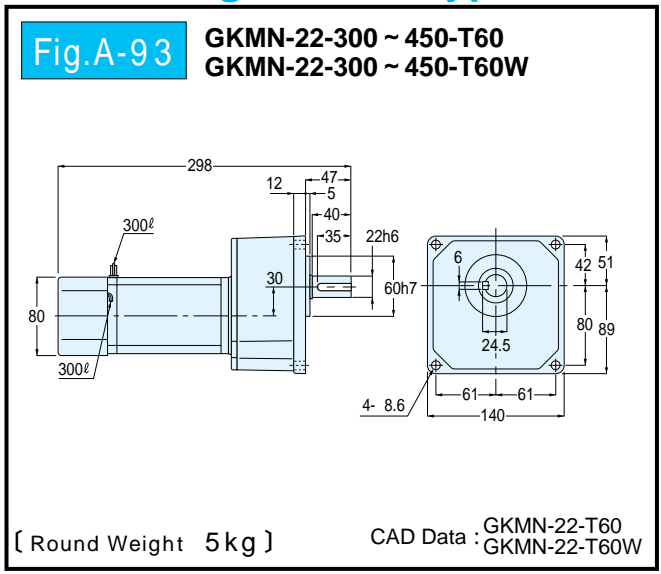
# Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 60W

### Small Flange Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type [ Parallel Shaft ] 3-Phase 90W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	T90	200/200/220	50/60/60	15	0.51/0.48/0.48	1350/1550/1550	E	Totally Enclosed or Totally Enclosed Fan-cooled
					18	0.47/0.47/0.47	1350/1550/1600		
					28	0.51/0.48/0.48	1350/1550/1550		
					32	0.51/0.48/0.48	1350/1550/1550		
					40	0.47/0.47/0.47	1350/1550/1600		
Double Voltage (Continuous Rated 4 Poles)		T90W	380/400/400/440	50/50/60/60	15	0.26/0.26/0.26/0.26	1300/1350/1550/1600		
					18	0.23/0.23/0.24/0.24	1350/1350/1600/1650		
					28	0.26/0.26/0.26/0.26	1300/1350/1550/1600		
					32	0.26/0.26/0.26/0.26	1300/1350/1550/1600		
					40	0.23/0.23/0.24/0.24	1350/1350/1600/1650		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight					
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake		
									GLM	GFM	GKM	GLMN	GFMN	GKMN
3-phase 90W	15	1/ 5	300	360	2.06	0.21	147	15	P.A37 Fig.A-96	P.A39 Fig.A-104	P.A42 Fig.A-116 3kg	P.A43 Fig.A-121 4kg		
		1/ 7.5	200	240	3.14	0.32	245	25						
		1/ 10	150	180	4.12	0.42	343	35						
		1/ 15	100	120	6.17	0.63	441	45						
		1/ 20	75	90	8.33	0.85	539	55						
		1/ 25	60	72	10.8	1.1	588	60						
		1/ 30	50	60	12.7	1.3	686	70						
	18	1/ 40	37.5	45	16.7	1.7	1080	110	P.A37 Fig.A-98 4kg	P.A39 Fig.A-106 4kg	P.A42 Fig.A-117 4kg	P.A43 Fig.A-122 4kg		
		1/ 50	30	36	20.6	2.1	1180	120						
		1/ 60	25	30	24.5	2.5	1180	120						
		1/ 80	18.8	22.5	31.4	3.2	1270	130						
		1/ 100	15	18	39.2	4.0	1270	130						
		1/ 120	12.5	15	47.0	4.8	1370	140						
		* 1/ 160	9.4	11.2	53.9	5.5	1370	140						
	* 1/ 200	7.5	9	53.9	5.5	1370	140							
	* 1/ 240	6.3	7.5	53.9	5.5	1370	140							
	28	1/ 300	5	6	108	11	2740	280	P.A37 Fig.A-99 7kg	P.A39 Fig.A-107 7kg	P.A41 Fig.A-112 7kg	P.A42 Fig.A-118 7kg	P.A43 Fig.A-123 7kg	P.A43 Fig.A-126 7kg
		1/ 375	4	4.8	137	14	2740	280						
		1/ 450	3.3	4	157	16	2740	280						
	32	1/ 600	2.5	3	216	22	5100	520	P.A38 Fig.A-101 11kg	P.A40 Fig.A-109 11kg	P.A41 Fig.A-114 11kg	P.A42 Fig.A-119 11kg	P.A43 Fig.A-124 11kg	P.A43 Fig.A-127 11kg
		1/ 750	2	2.4	265	27	5100	520						
		1/ 900	1.7	2	314	32	5100	520						
	40	1/1200	1.3	1.5	421	43	7060	720	P.A38 Fig.A-103 15kg	P.A40 Fig.A-111 15kg		P.A42 Fig.A-120 15kg	P.A43 Fig.A-125 15kg	
		1/1500	1	1.2	529	54	7060	720						
1/1800		0.8	1	637	65	7060	720							

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A9.

**Model Code**  
P.A6

**Lead-Wire/Terminal Box Position Mark**  
P.E54

**Option**  
P.E110

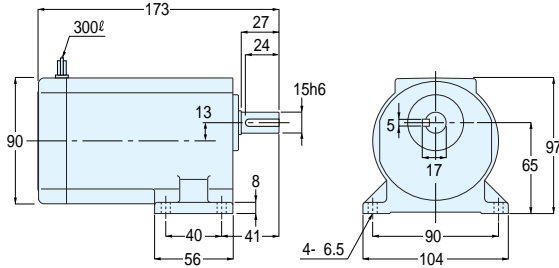
# Gearmotor

## G-Type [Parallel Shaft] 3-Phase 90W

### Foot Mount Type Gearmotor



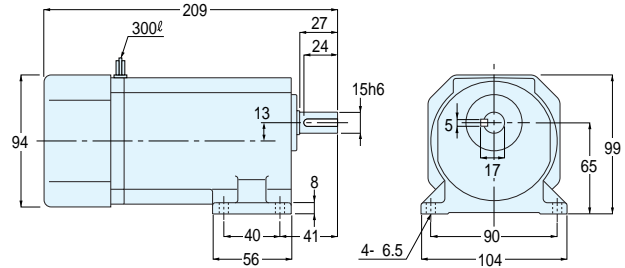
**Fig.A-96 GLM-15-5 ~ 30-T90**



[ Round Weight 3 kg ]

CAD Data: GLM-15-T90

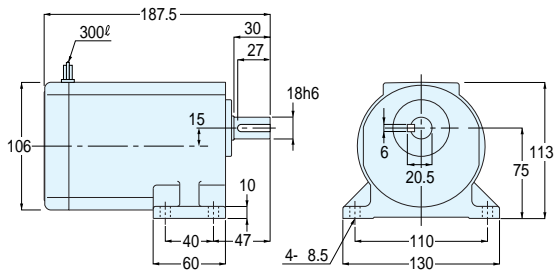
**Fig.A-97 GLM-15-5 ~ 30-T90W**



[ Round Weight 3 kg ]

CAD Data: GLM-15-T90W

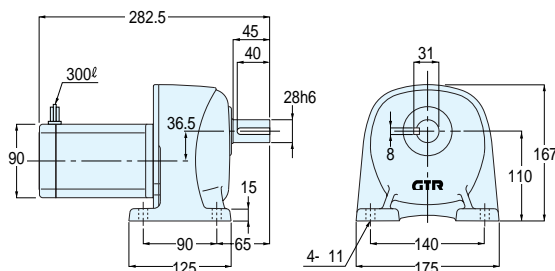
**Fig.A-98 GLM-18-40 ~ 240-T90  
GLM-18-40 ~ 240-T90W**



[ Round Weight 4 kg ]

CAD Data: GLM-18-T90  
GLM-18-T90W

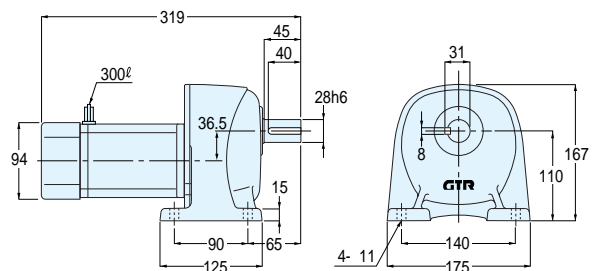
**Fig.A-99 GLM-28-300 ~ 450-T90**



[ Round Weight 7 kg ]

CAD Data: GLM-28-T90

**Fig.A-100 GLM-28-300 ~ 450-T90W**



[ Round Weight 7 kg ]

CAD Data: GLM-28-T90W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# Gearmotor

## G-Type[Parallel Shaft] 3-Phase 90W

### Foot Mount Type Gearmotor



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

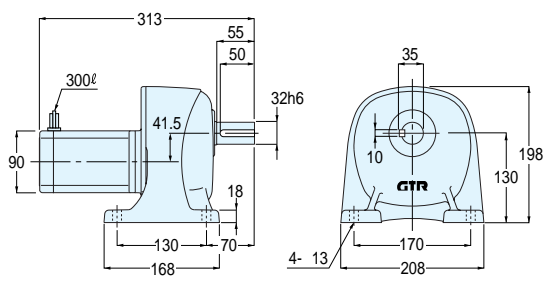
Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

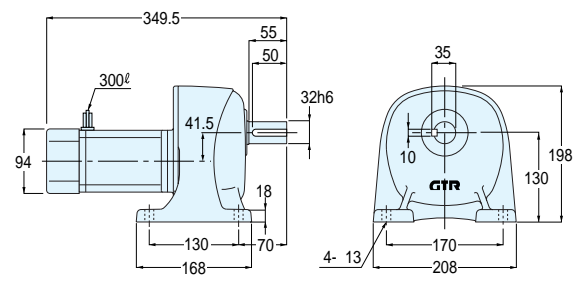
**Fig.A-101** GLM-32-600 ~ 900-T90



[ Round Weight 11 kg ]

CAD Data: GLM-32-T90

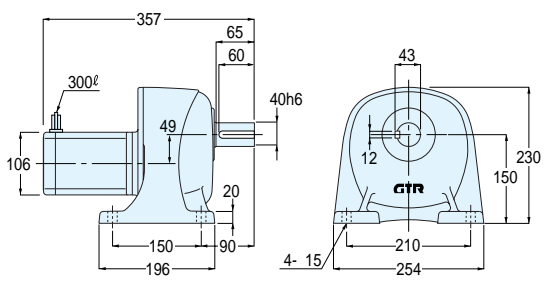
**Fig.A-102** GLM-32-600 ~ 900-T90W



[ Round Weight 11 kg ]

CAD Data: GLM-32-T90W

**Fig.A-103** GLM-40-1200 ~ 1800-T90  
GLM-40-1200 ~ 1800-T90W



[ Round Weight 15 kg ]

CAD Data: GLM-40-T90  
GLM-40-T90W

Model Code  
P.A6

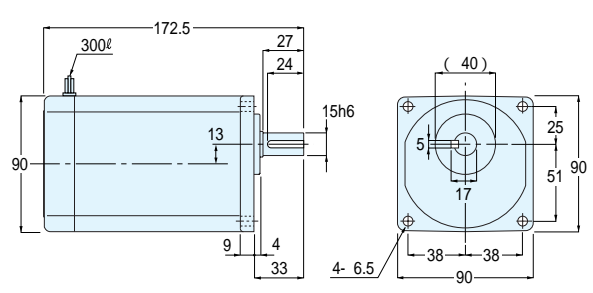
Lead-Wire/Terminal Box  
Position Mark  
P.E54

Option  
P.E110



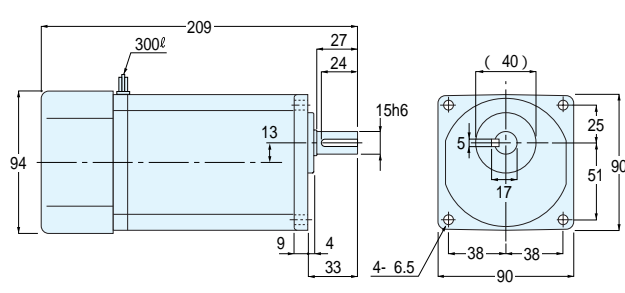
## Flange Mount Type Gearmotor

**Fig.A-104 GFM-15-5 ~ 30-T90**



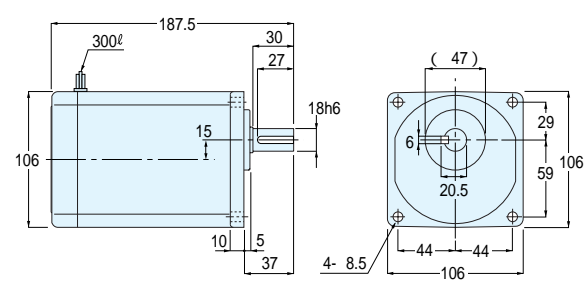
[ Round Weight 3 kg ] CAD Data: GFM-15-T90

**Fig.A-105 GFM-15-5 ~ 30-T90W**



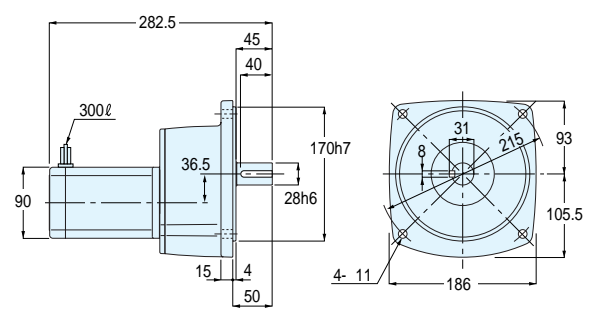
[ Round Weight 3 kg ] CAD Data: GFM-15-T90W

**Fig.A-106 GFM-18-40 ~ 240-T90  
GFM-18-40 ~ 240-T90W**



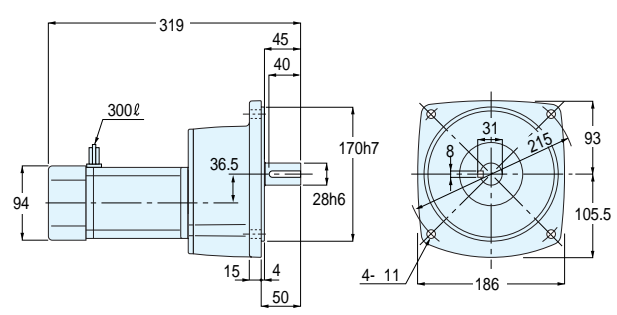
[ Round Weight 4 kg ] CAD Data: GFM-18-T90  
GFM-18-T90W

**Fig.A-107 GFM-28-300 ~ 450-T90**



[ Round Weight 7 kg ] CAD Data: GFM-28-T90

**Fig.A-108 GFM-28-300 ~ 450-T90W**



[ Round Weight 7 kg ] CAD Data: GFM-28-T90W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

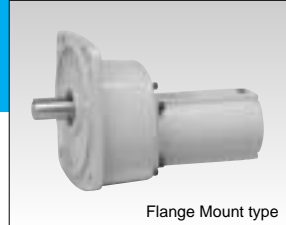
Option

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 3-Phase 90W

### Flange Mount Type Gearmotor



Flange Mount type

Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

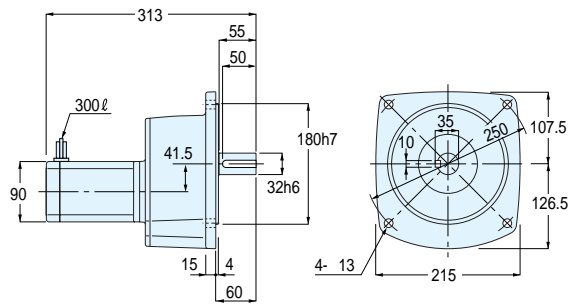
Technical Information

Standard Motors

Cautions for Safety

Option

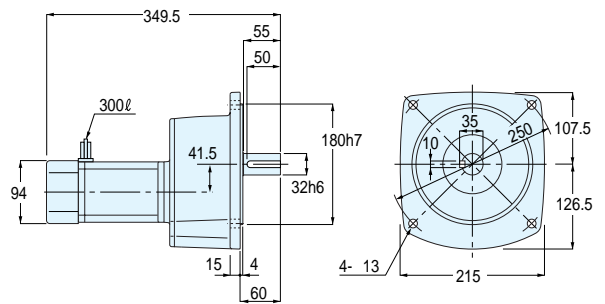
**Fig.A-109 GFM-32-600 ~ 900-T90**



[ Round Weight 11 kg ]

CAD Data: GFM-32-T90

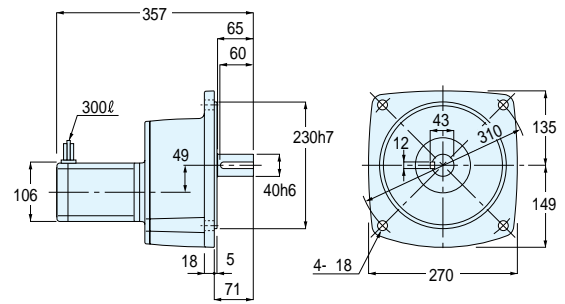
**Fig.A-110 GFM-32-600 ~ 900-T90W**



[ Round Weight 11 kg ]

CAD Data: GFM-32-T90W

**Fig.A-111 GFM-40-1200 ~ 1800-T90  
GFM-40-1200 ~ 1800-T90W**



[ Round Weight 15 kg ]

CAD Data: GFM-40-T90  
GFM-40-T90W

Model Code  
P.A6

Lead-Wire/Terminal Box  
Position Mark  
P.E54

Option  
P.E110

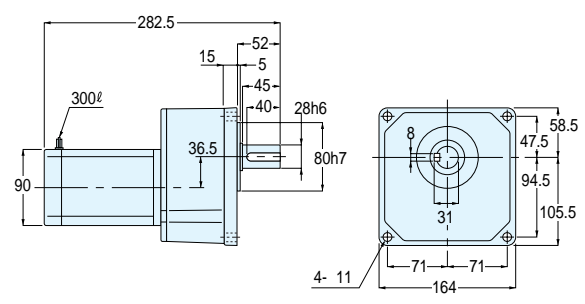




Small Flange Mount type  
(Frame Number 22 ~ 32)

## Small Flange Mount Type Gearmotor

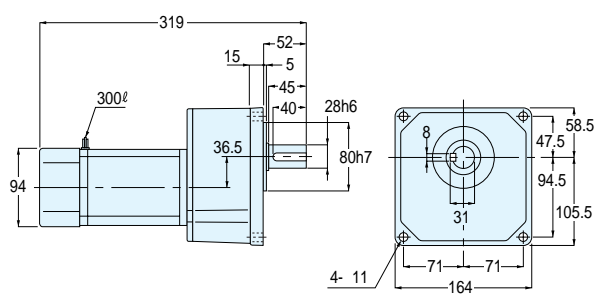
**Fig.A-112 GKM-28-300 ~ 450-T90**



[ Round Weight 7 kg ]

CAD Data: GKM-28-T90

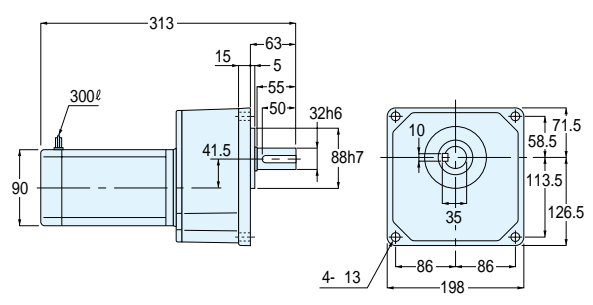
**Fig.A-113 GKM-28-300 ~ 450-T90W**



[ Round Weight 7 kg ]

CAD Data: GKM-28-T90W

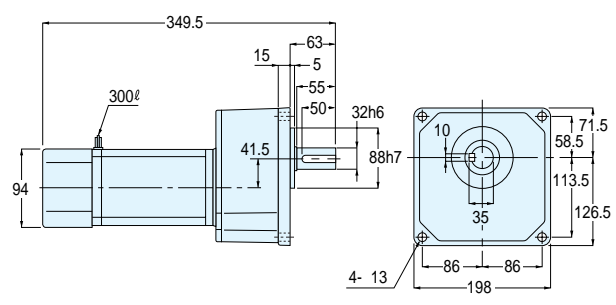
**Fig.A-114 GKM-32-600 ~ 900-T90**



[ Round Weight 11 kg ]

CAD Data: GKM-32-T90

**Fig.A-115 GKM-32-600 ~ 900-T90W**



[ Round Weight 11 kg ]

CAD Data: GKM-32-T90W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

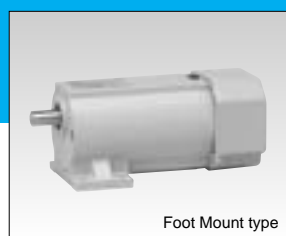
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type[Parallel Shaft] 3-Phase 90W

### Foot Mount Type Gearmotor with Brake



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

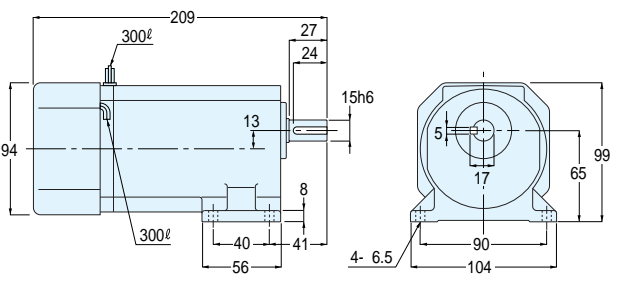
Technical  
Information

Standard  
Motors

Cautions  
for Safety

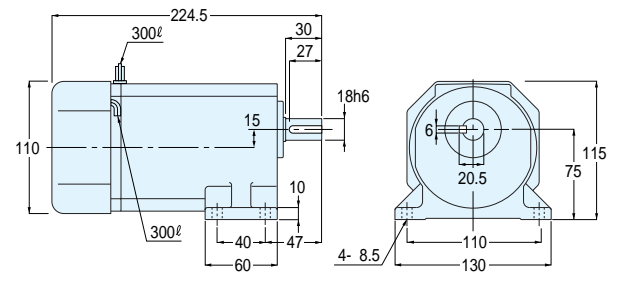
Option

**Fig.A-116** GLMN-15-5 ~ 30-T90  
GLMN-15-5 ~ 30-T90W



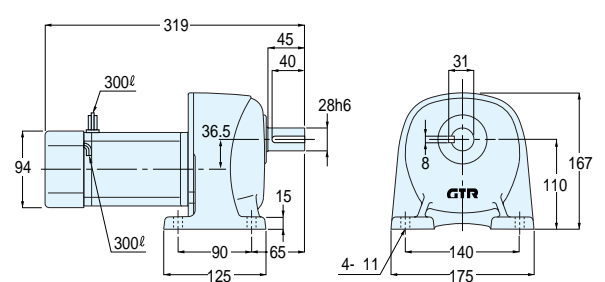
[ Round Weight 3 kg ] CAD Data: GLMN-15-T90  
GLMN-15-T90W

**Fig.A-117** GLMN-18-40 ~ 240-T90  
GLMN-18-40 ~ 240-T90W



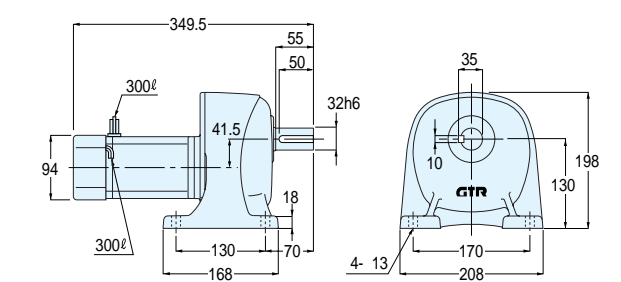
[ Round Weight 4 kg ] CAD Data: GLMN-18-T90  
GLMN-18-T90W

**Fig.A-118** GLMN-28-300 ~ 450-T90  
GLMN-28-300 ~ 450-T90W



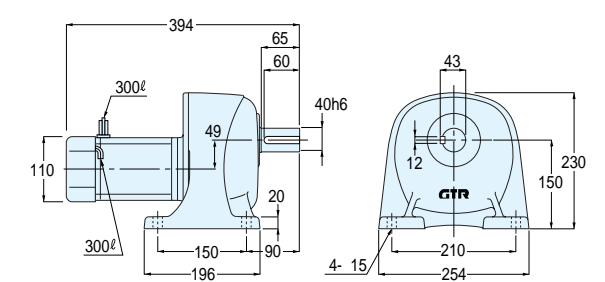
[ Round Weight 7 kg ] CAD Data: GLMN-28-T90  
GLMN-28-T90W

**Fig.A-119** GLMN-32-600 ~ 900-T90  
GLMN-32-600 ~ 900-T90W



[ Round Weight 11 kg ] CAD Data: GLMN-32-T90  
GLMN-32-T90W

**Fig.A-120** GLMN-40-1200 ~ 1800-T90  
GLMN-40-1200 ~ 1800-T90W

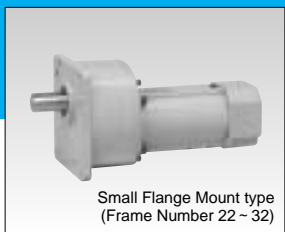


[ Round Weight 15 kg ] CAD Data: GLMN-40-T90  
GLMN-40-T90W

- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110

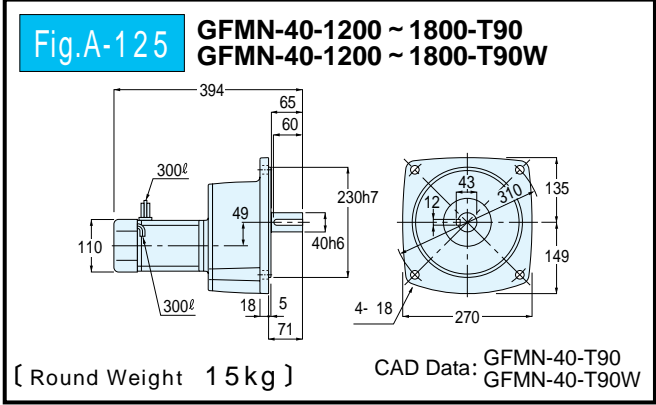
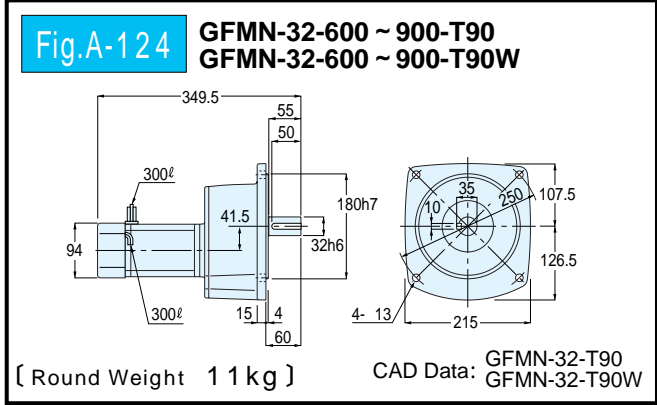
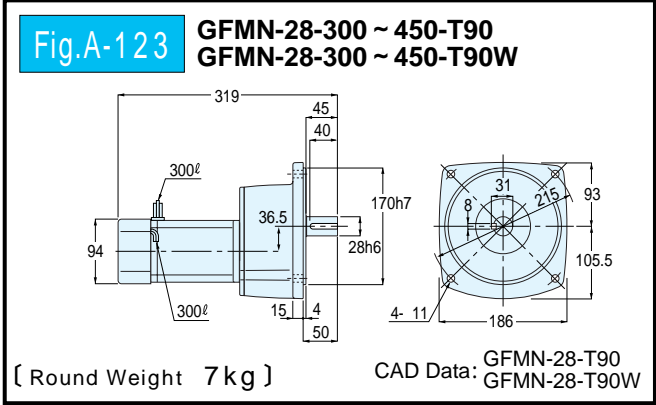
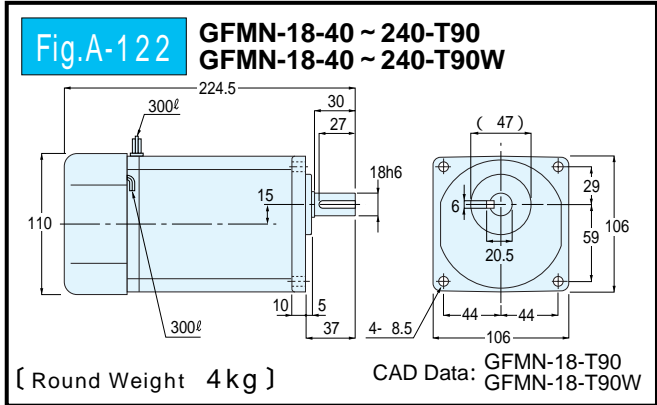
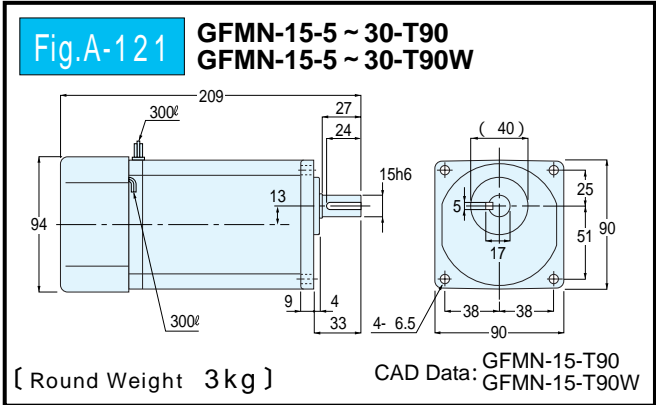


Flange Mount type

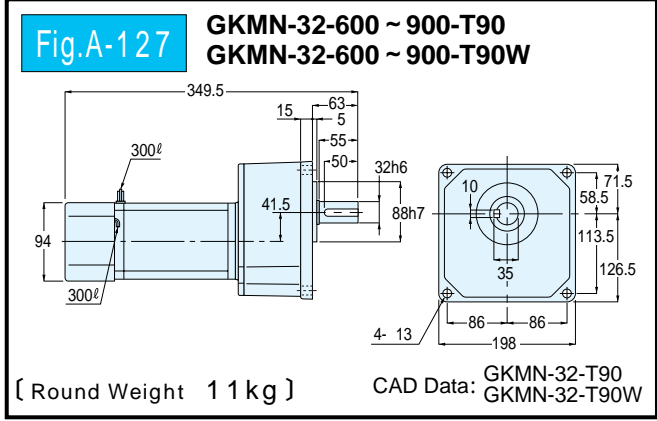
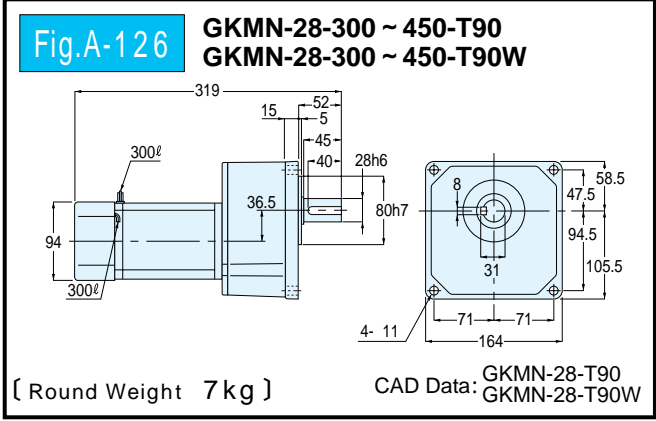


Small Flange Mount type  
(Frame Number 22 ~ 32)

## Flange Mount Type Gearmotor with Brake



## Small Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option





# Parallel Shaft

# Gearmotor Gearmotor with Brake

## Performance Table Dimension diagram


# G Type

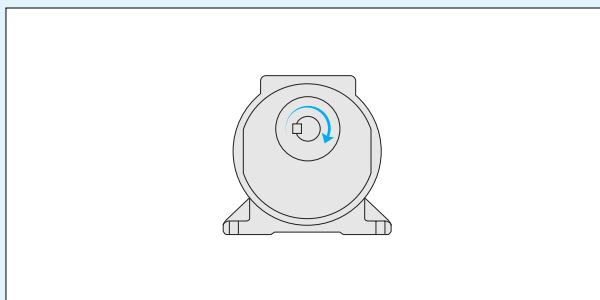
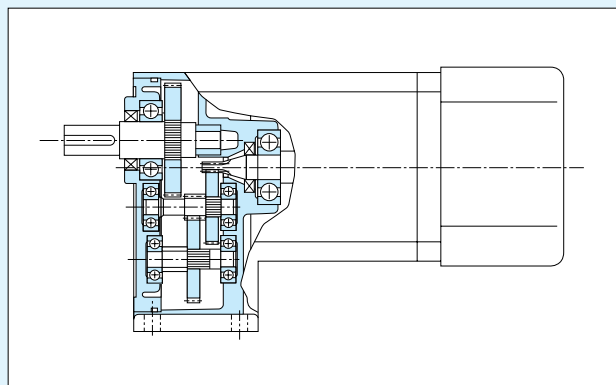
Parallel Shaft

### 1-Phase

**【Remarks】**

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	S15	100/100	50/60	12	0.39/0.35	1350/1650	5	E	Totally Enclosed or Totally Enclosed Fan-cooled
					22	0.39/0.35	1350/1650	5		
Double Voltage (Continuous Rated 4 Poles)		S15W	200/200	50/60	12	0.21/0.19	1350/1650	1.2		
					22	0.21/0.19	1350/1650	1.2		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight									
			50Hz	60Hz	N·m	kgf·m	Gearmotor		Gearmotor with Brake									
							N	kgf	GLM	GFM	GKM	GLMN	GFMN	GKMN				
1-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A47 Fig.A-128 2kg	P.A47 Fig.A-130 2kg	P.A48 Fig.A-133 2kg	P.A48 Fig.A-135 2kg						
		1/ 7.5	200	240	0.49	0.05	196	20										
		1/ 10	150	180	0.69	0.07	245	25										
		1/ 15	100	120	0.98	0.10	343	35										
		1/ 20	75	90	1.27	0.13	441	45										
		1/ 25	60	72	1.67	0.17	490	50										
		1/ 30	50	60	1.96	0.20	539	55										
		1/ 40	37.5	45	2.65	0.27	588	60										
		1/ 50	30	36	3.33	0.34	637	65										
		1/ 60	25	30	3.92	0.40	686	70										
		1/ 80	18.8	22.5	5.00	0.51	735	75										
		1/ 100	15	18	6.27	0.64	735	75										
	1/ 120	12.5	15	7.45	0.76	784	80											
	1/ 160	9.4	11.2	9.80	1.0	784	80											
	1/ 200	7.5	9	12.7	1.3	784	80											
	1/ 240	6.3	7.5	14.7	1.5	784	80											
	1/ 300	5	6	16.7	1.7	1760	180	P.A47 Fig.A-129 5kg	P.A47 Fig.A-131 5kg	P.A47 Fig.A-132 5kg	P.A48 Fig.A-134 5kg	P.A48 Fig.A-136 5kg	P.A48 Fig.A-137 5kg					
	1/ 375	4	4.8	20.6	2.1	1760	180											
	1/ 450	3.3	4	25.5	2.6	1760	180											
	1/ 600	2.5	3	33.3	3.4	1760	180											
1/ 750	2	2.4	42.1	4.3	1760	180												
1/ 900	1.7	2	50.0	5.1	1760	180												
1/1200	1.3	1.5	66.6	6.8	1760	180												
1/1500	1	1.2	83.3	8.5	1760	180												
1/1800	0.8	1	98.0	10	1760	180												

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A45.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

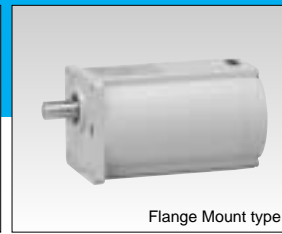
Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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# Gearmotor

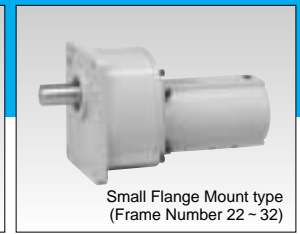
G-Type(Parallel Shaft) 1-Phase 15W



Foot Mount type



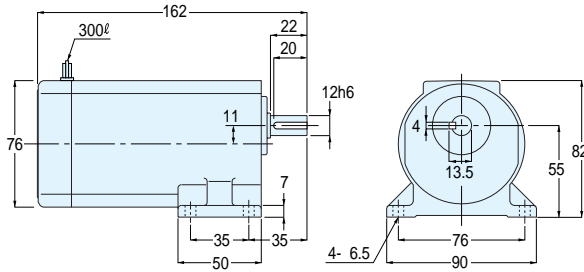
Flange Mount type



Small Flange Mount type  
(Frame Number 22 ~ 32)

## Foot Mount Type Gearmotor

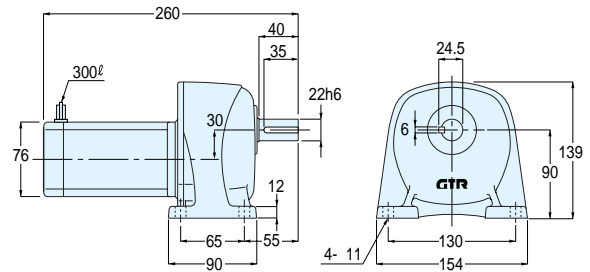
**Fig.A-128** GLM-12-5 ~ 240-S15  
GLM-12-5 ~ 240-S15W



[ Round Weight 2 kg ]

CAD Data: GLM-12-S15  
GLM-12-S15W

**Fig.A-129** GLM-22-300 ~ 1800-S15  
GLM-22-300 ~ 1800-S15W

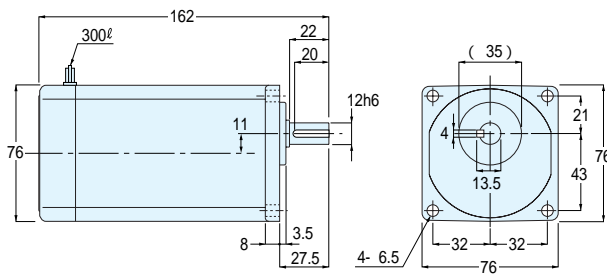


[ Round Weight 5 kg ]

CAD Data: GLM-22-S15  
GLM-22-S15W

## Flange Mount Type Gearmotor

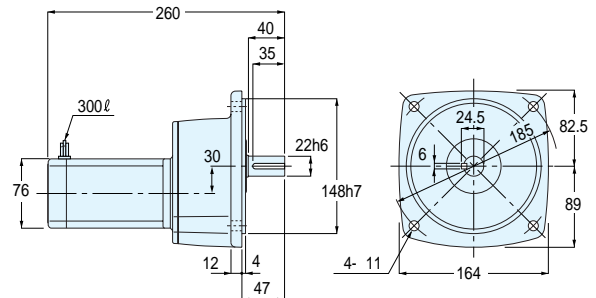
**Fig.A-130** GFM-12-5 ~ 240-S15  
GFM-12-5 ~ 240-S15W



[ Round Weight 2 kg ]

CAD Data: GFM-12-S15  
GFM-12-S15W

**Fig.A-131** GFM-22-300 ~ 1800-S15  
GFM-22-300 ~ 1800-S15W

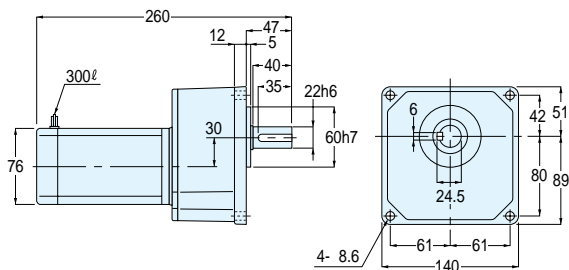


[ Round Weight 5 kg ]

CAD Data: GFM-22-S15  
GFM-22-S15W

## Small Flange Mount Type Gearmotor

**Fig.A-132** GKM-22-300 ~ 1800-S15  
GKM-22-300 ~ 1800-S15W



[ Round Weight 5 kg ]

CAD Data: GKM-22-S15  
GKM-22-S15W

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

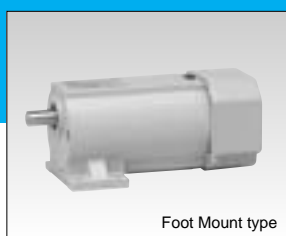
Option

GTR Mini Series

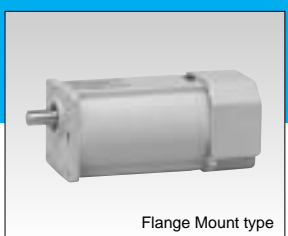
# Gearmotor with Brake

G-Type (Parallel Shaft) 1-Phase 15W

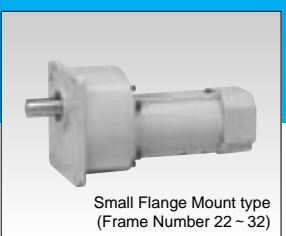
## Foot Mount Type Gearmotor with Brake



Foot Mount type



Flange Mount type



Small Flange Mount type  
(Frame Number 22 ~ 32)

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

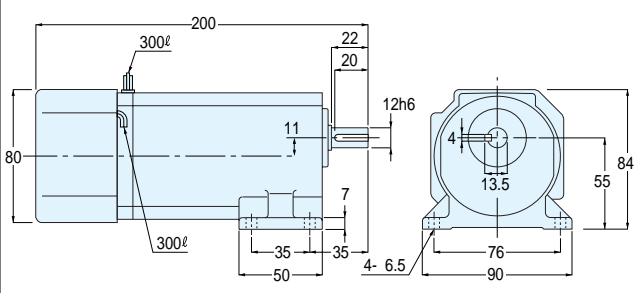
Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

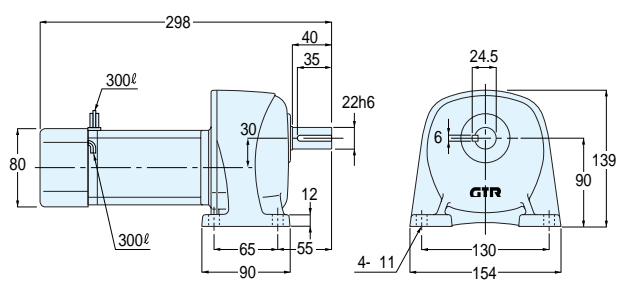
**Fig.A-133** GLMN-12-5 ~ 240-S15  
GLMN-12-5 ~ 240-S15W



[ Round Weight 2 kg ]

CAD Data: GLMN-12-S15  
GLMN-12-S15W

**Fig.A-134** GLMN-22-300 ~ 1800-S15  
GLMN-22-300 ~ 1800-S15W

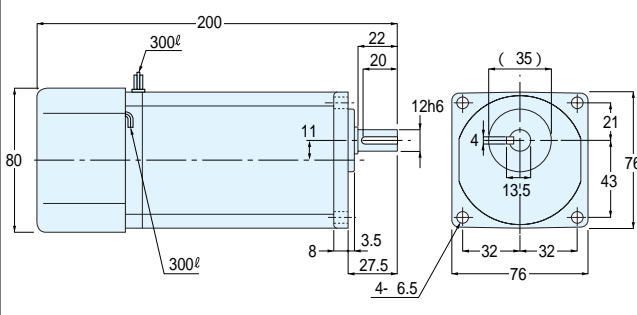


[ Round Weight 5 kg ]

CAD Data: GLMN-22-S15  
GLMN-22-S15W

## Flange Mount Type Gearmotor with Brake

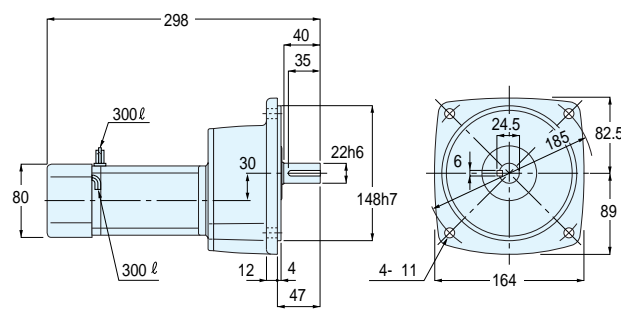
**Fig.A-135** GFMN-12-5 ~ 240-S15  
GFMN-12-5 ~ 240-S15W



[ Round Weight 2 kg ]

CAD Data: GFMN-12-S15  
GFMN-12-S15W

**Fig.A-136** GFMN-22-300 ~ 1800-S15  
GFMN-22-300 ~ 1800-S15W

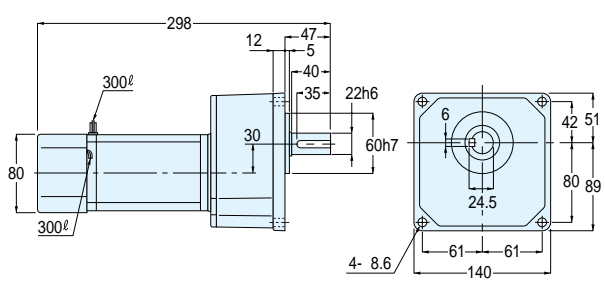


[ Round Weight 5 kg ]

CAD Data: GFMN-22-S15  
GFMN-22-S15W

## Small Flange Mount Type Gearmotor with Brake

**Fig.A-137** GKMN-22-300 ~ 1800-S15  
GKMN-22-300 ~ 1800-S15W



[ Round Weight 5 kg ]

CAD Data: GKMN-22-S15  
GKMN-22-S15W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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Parallel Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 25W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	S25	100/100	50/60	12	0.48/0.48	1350/1600	7	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.44/0.45	1350/1650	7		
					22	0.48/0.48	1350/1600	7		
					28	0.44/0.45	1350/1650	7		
Double Voltage (Continuous Rated 4 Poles)	S25W	200/200	200/200	50/60	12	0.26/0.25	1350/1600	1.7		
					15	0.23/0.24	1350/1650	1.7		
					22	0.26/0.25	1350/1600	1.7		
					28	0.23/0.24	1350/1650	1.7		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight						
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake			
									GLM	GFM	GKM	GLMN	GFMN	GKMN	
1-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A51 Fig.A-138 2kg	P.A52 Fig.A-142 2kg	P.A53 Fig.A-148 2kg	P.A54 Fig.A-152 2kg			
		1/ 7.5	200	240	0.78	0.08	196	20							
		1/ 10	150	180	1.08	0.11	245	25							
		1/ 15	100	120	1.67	0.17	343	35							
		1/ 20	75	90	2.25	0.23	441	45							
		1/ 25	60	72	2.74	0.28	490	50							
		1/ 30	50	60	3.33	0.34	539	55							
		1/ 40	37.5	45	4.41	0.45	588	60							
		1/ 50	30	36	5.49	0.56	637	65							
		1/ 60	25	30	6.66	0.68	686	70							
	15	1/ 160	9.4	11.2	16.7	1.7	1080	110	P.A51 Fig.A-139 3kg	P.A52 Fig.A-143 3kg	P.A53 Fig.A-149 3kg	P.A54 Fig.A-153 3kg			
		1/ 200	7.5	9	20.6	2.1	1080	110							
		1/ 240	6.3	7.5	25.5	2.6	1080	110							
		1/ 300	5	6	28.4	2.9	1760	180							
		1/ 375	4	4.8	35.3	3.6	1760	180							
		1/ 450	3.3	4	42.1	4.3	1760	180							
	22	1/ 600	2.5	3	55.9	5.7	1760	180	P.A51 Fig.A-140 5kg	P.A52 Fig.A-144 5kg	P.A52 Fig.A-146 5kg	P.A53 Fig.A-150 5kg	P.A54 Fig.A-154 5kg	P.A54 Fig.A-156 5kg	
		1/ 750	2	2.4	69.6	7.1	1760	180							
		1/ 900	1.7	2	84.3	8.6	1760	180							
		1/ 1200	1.3	1.5	108	11	2740	280							
28	1/1500	1	1.2	137	14	2740	280	P.A51 Fig.A-141 7kg	P.A52 Fig.A-145 7kg	P.A52 Fig.A-147 7kg	P.A53 Fig.A-151 7kg	P.A54 Fig.A-155 7kg	P.A54 Fig.A-157 7kg		
	1/1800	0.8	1	167	17	2740	280								

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A45.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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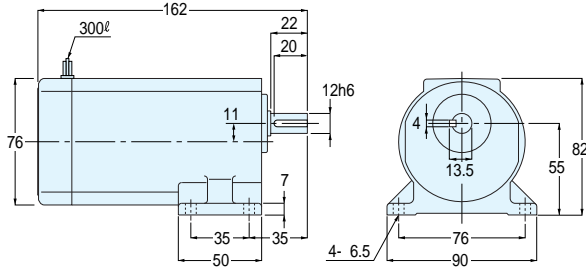
# Gearmotor



Foot Mount type

## Foot Mount Type Gearmotor with Brake

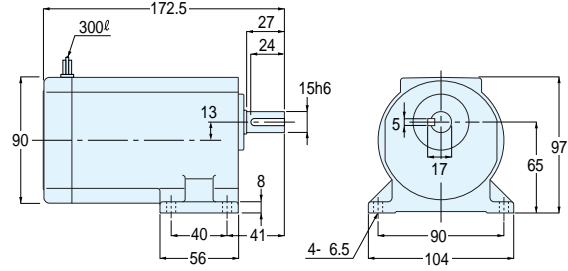
**Fig.A-138** GLM-12-5 ~ 120-S25  
GLM-12-5 ~ 120-S25W



[ Round Weight 2 kg ]

CAD Data: GLM-12-S25  
GLM-12-S25W

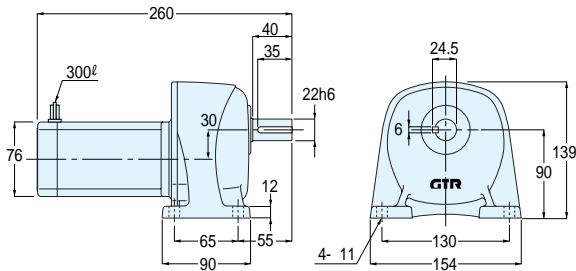
**Fig.A-139** GLM-15-160 ~ 240-S25  
GLM-15-160 ~ 240-S25W



[ Round Weight 3 kg ]

CAD Data: GLM-15-S25  
GLM-15-S25W

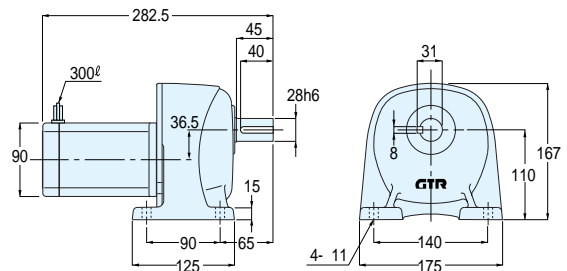
**Fig.A-140** GLM-22-300 ~ 900-S25  
GLM-22-300 ~ 900-S25W



[ Round Weight 5 kg ]

CAD Data: GLM-22-S25  
GLM-22-S25W

**Fig.A-141** GLM-28-1200 ~ 1800-S25  
GLM-28-1200 ~ 1800-S25W



[ Round Weight 7 kg ]

CAD Data: GLM-28-S25  
GLM-28-S25W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

# Gearmotor

## G-Type(Parallel Shaft) 1-Phase 25W

### Flange Mount Type Gearmotor



Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

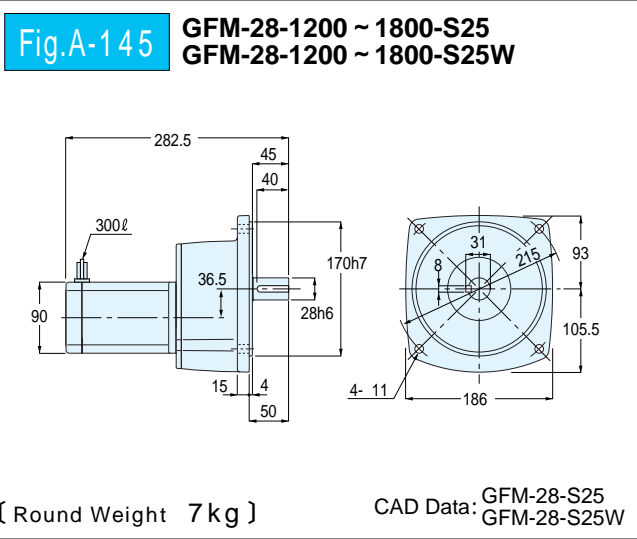
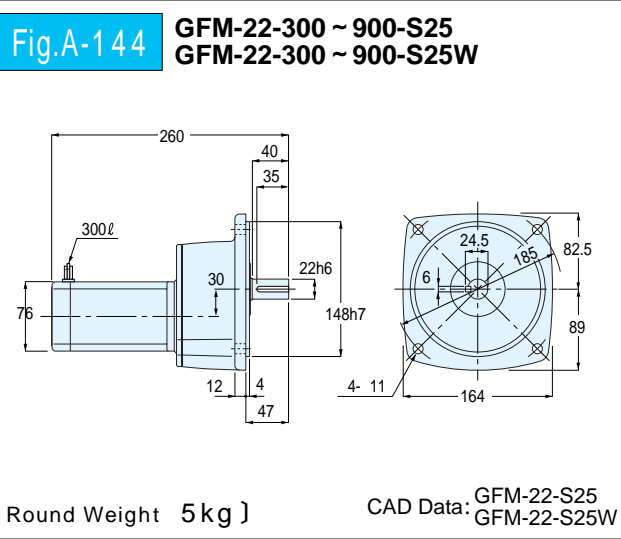
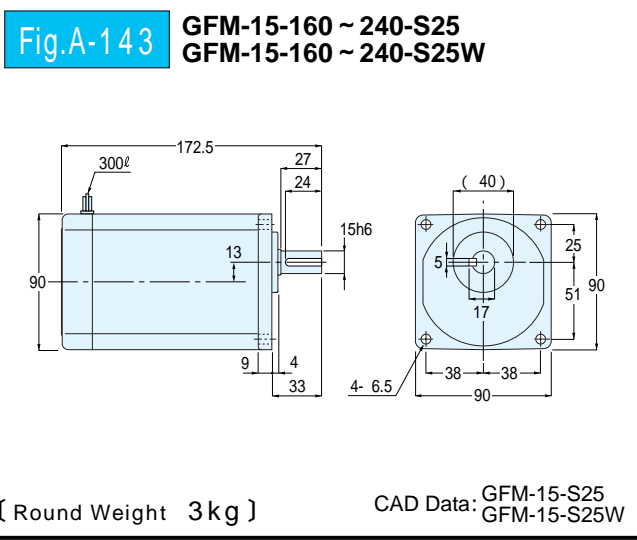
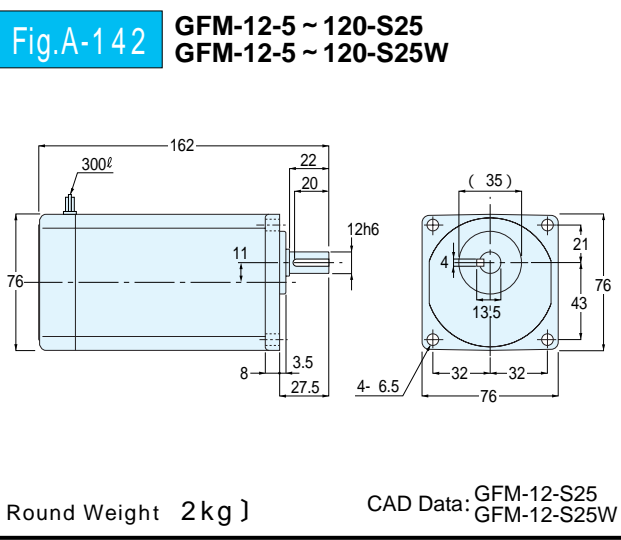
Speed Control Gearmotor with Brake

Technical Information

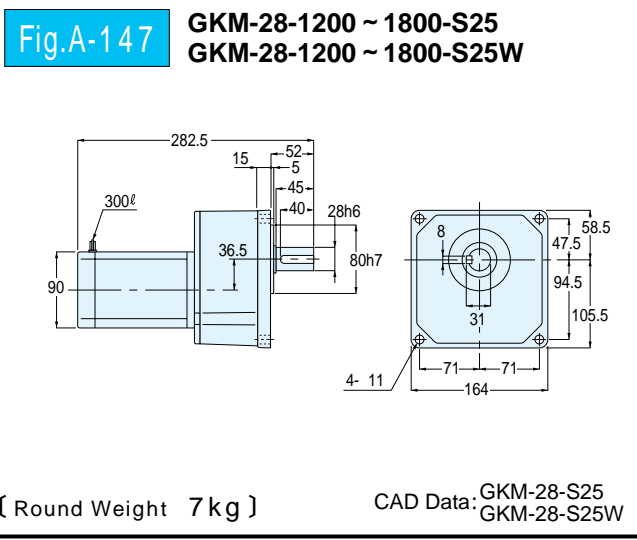
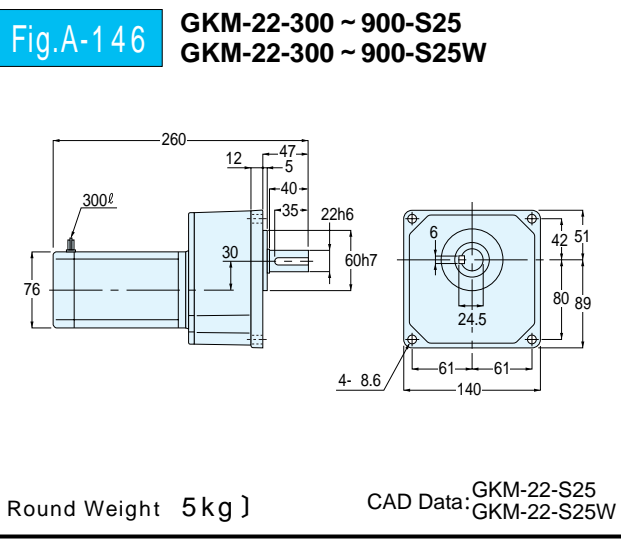
Standard Motors

Cautions for Safety

Option



### Small Flange Mount Type Gearmotor



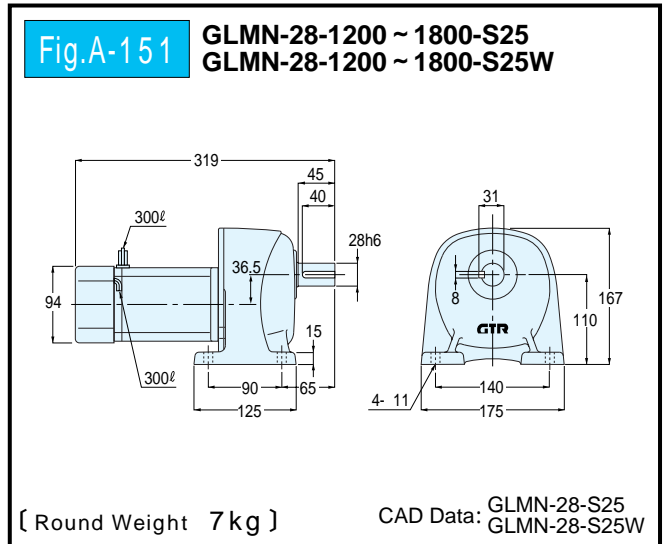
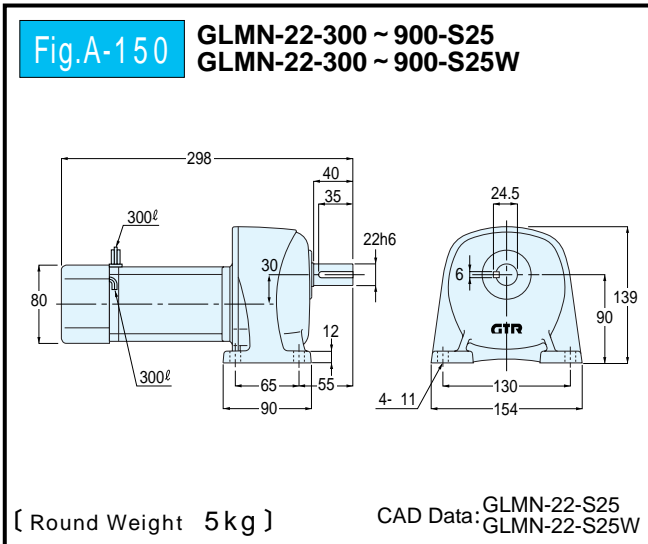
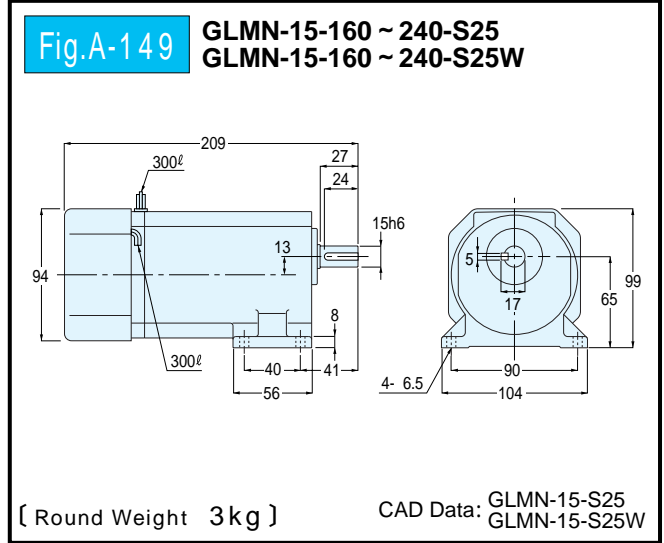
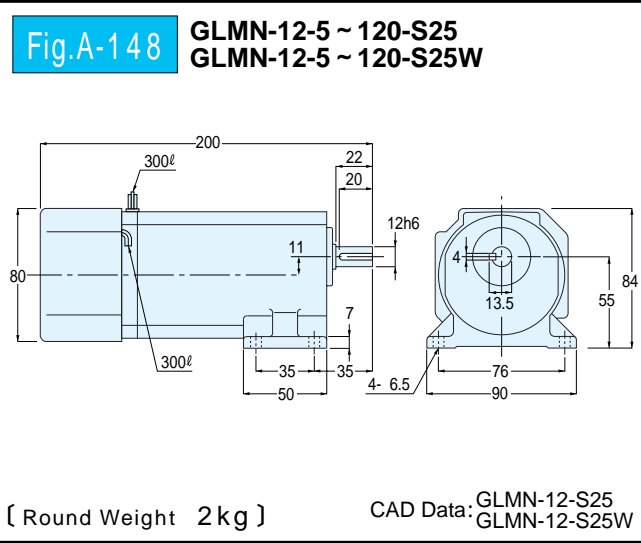
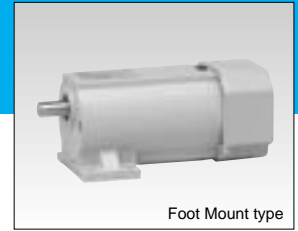
Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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# Gearmotor with Brake

## G-Type (Parallel Shaft) 1-Phase 25W

### Foot Mount Type Gearmotor with Brake



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

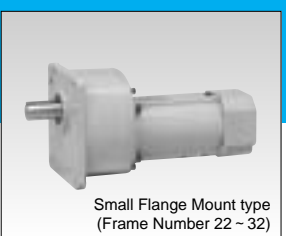
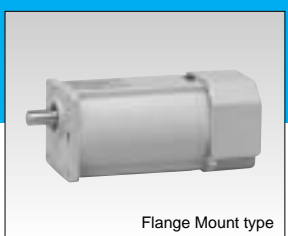
Option

GTR Mini Series

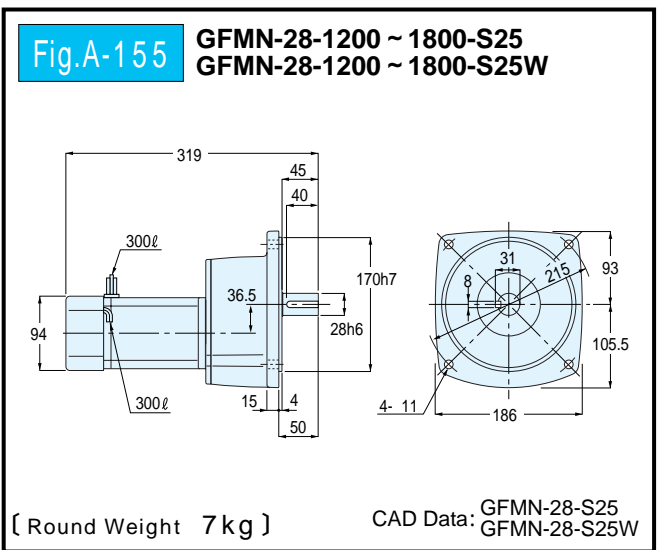
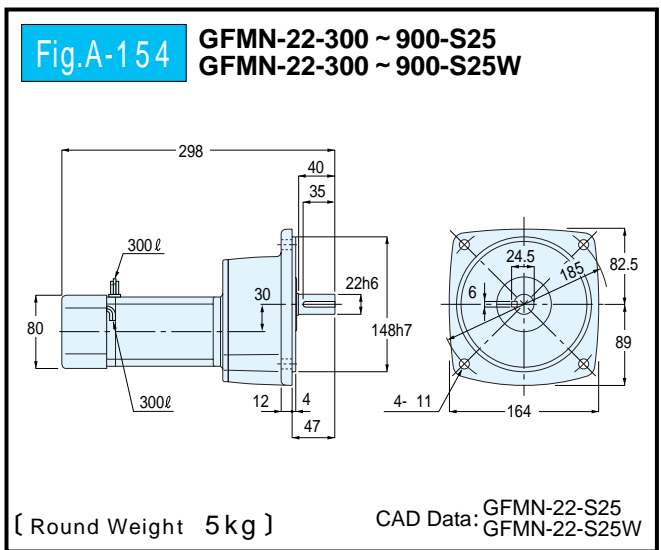
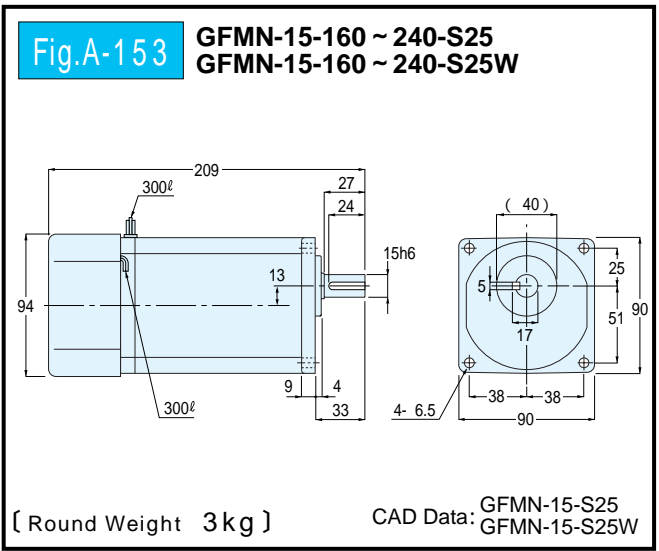
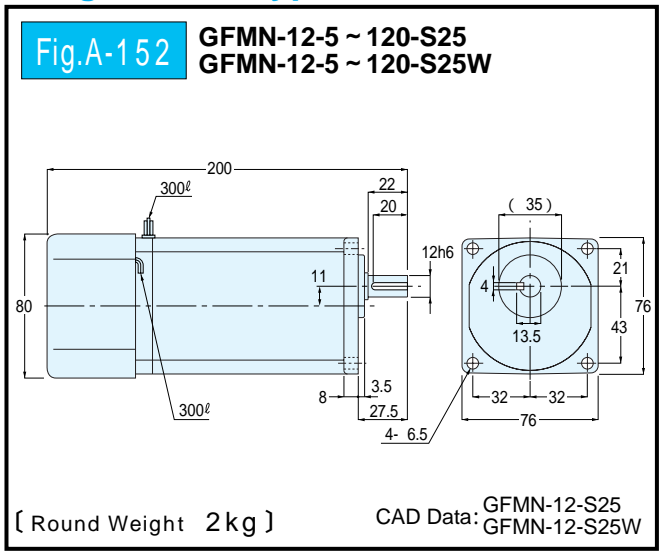
# Gearmotor with Brake

## G-Type(Parallel Shaft) 1-Phase 25W

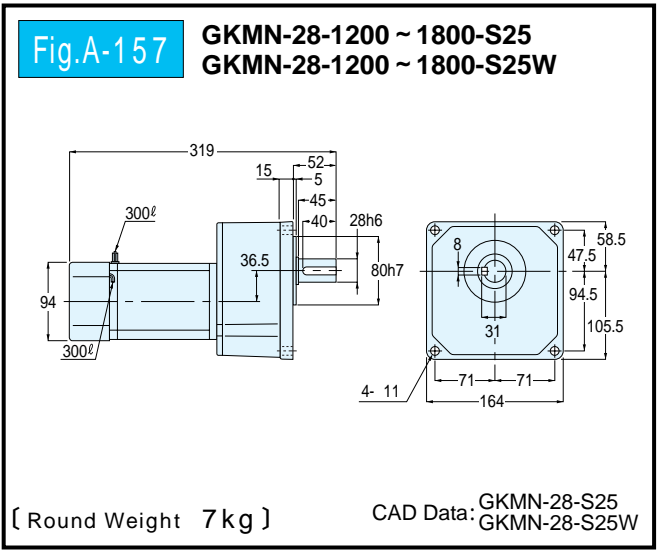
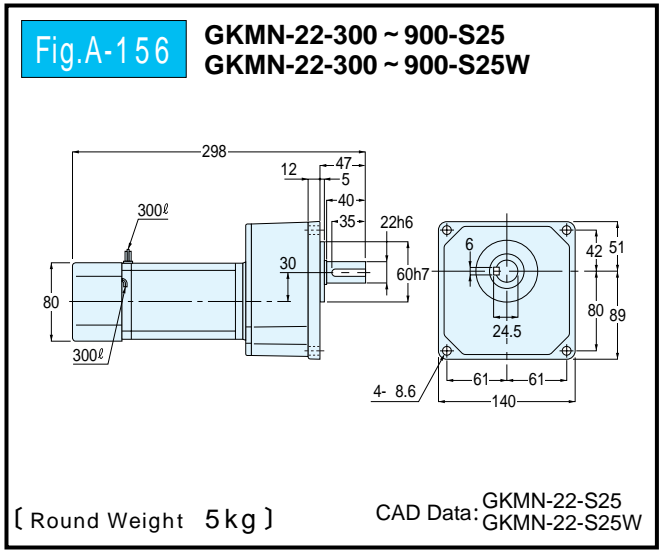
### Flange Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



### Small Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
---------------------------	--	-------------------------

Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 40W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	S40	100/100	50/60	12	0.67/0.80	1400/1650	12	E	Totally Enclosed or Totally Enclosed Fan-cooled
					15	0.61/0.66	1350/1650	10		
					18	0.63/0.64	1400/1650	10		
					22	0.67/0.80	1400/1650	12		
					28	0.61/0.66	1350/1650	10		
					32	0.61/0.66	1350/1650	10		
Double Voltage (Continuous Rated 4 Poles)		S40W	200/200	50/60	12	0.34/0.33	1350/1600	2.5		
					15	0.29/0.34	1350/1600	2.5		
					18	0.31/0.32	1400/1650	2.5		
					22	0.34/0.33	1350/1600	2.5		
					28	0.29/0.34	1350/1600	2.5		
					32	0.29/0.34	1350/1600	2.5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight					
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake		
									GLM	GFM	GKM	GLMN	GFMN	GKMN
1-phase 40W	12	1/ 5	300	360	0.88	0.09	98	10	P.A57 Fig.A-158 2kg	P.A58 Fig.A-164 2kg	/	P.A60 Fig.A-173 2kg	P.A61 Fig.A-179 2kg	/
		1/ 7.5	200	240	1.37	0.14	196	20						
		1/ 10	150	180	1.76	0.18	245	25						
		1/ 15	100	120	2.65	0.27	343	35						
		1/ 20	75	90	3.53	0.36	441	45						
		1/ 25	60	72	4.41	0.45	490	50						
		1/ 30	50	60	5.29	0.54	539	55						
		1/ 40	37.5	45	7.06	0.72	588	60						
		1/ 50	30	36	8.82	0.90	637	65						
	1/ 60	25	30	10.8	1.1	686	70							
	15	1/ 80	18.8	22.5	13.7	1.4	980	100	P.A57 Fig.A-159 3kg	P.A58 Fig.A-165 3kg	/	P.A60 Fig.A-174 3kg	P.A61 Fig.A-180 3kg	/
		1/ 100	15	18	16.7	1.7	980	100						
		1/ 120	12.5	15	20.6	2.1	1080	110						
	18	1/ 160	9.4	11.2	26.5	2.7	1370	140	P.A57 Fig.A-160 4kg	P.A58 Fig.A-166 4kg	/	P.A60 Fig.A-175 4kg	P.A61 Fig.A-181 4kg	/
		1/ 200	7.5	9	33.3	3.4	1370	140						
		1/ 240	6.3	7.5	40.2	4.1	1370	140						
	22	1/ 300	5	6	45.1	4.6	1760	180	P.A57 Fig.A-161 5kg	P.A58 Fig.A-167 5kg	P.A59 Fig.A-170 5kg	P.A60 Fig.A-176 5kg	P.A61 Fig.A-182 5kg	P.A62 Fig.A-185 5kg
		1/ 375	4	4.8	55.9	5.7	1760	180						
		1/ 450	3.3	4	67.6	6.9	1760	180						
	28	1/ 600	2.5	3	90.2	9.2	2740	280	P.A57 Fig.A-162 7kg	P.A58 Fig.A-168 7kg	P.A59 Fig.A-171 7kg	P.A60 Fig.A-177 7kg	P.A61 Fig.A-183 7kg	P.A62 Fig.A-186 7kg
		1/ 750	2	2.4	118	12	2740	280						
		1/ 900	1.7	2	137	14	2740	280						
	32	1/1200	1.3	1.5	176	18	5100	520	P.A57 Fig.A-163 11kg	P.A58 Fig.A-169 11kg	P.A59 Fig.A-172 11kg	P.A60 Fig.A-178 11kg	P.A61 Fig.A-184 11kg	P.A62 Fig.A-187 11kg
		1/1500	1	1.2	225	23	5100	520						
1/1800		0.8	1	274	28	5100	520							

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A45.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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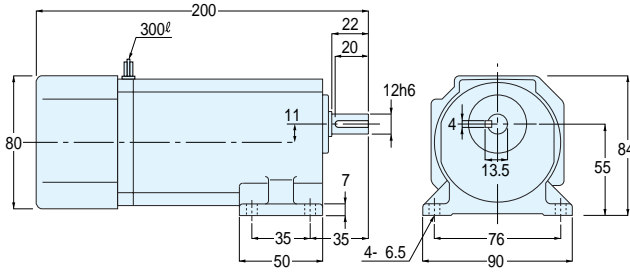
# Gearmotor

## G-Type [Parallel Shaft] 1-Phase 40W

### Foot Mount Type Gearmotor



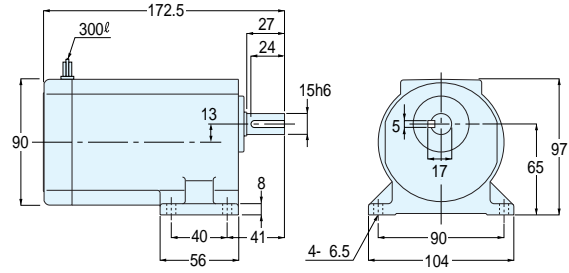
**Fig.A-158** GLM-12-5 ~ 60-S40  
GLM-12-5 ~ 60-S40W



[ Round Weight 2 kg ]

CAD Data: GLM-12-S40  
GLM-12-S40W

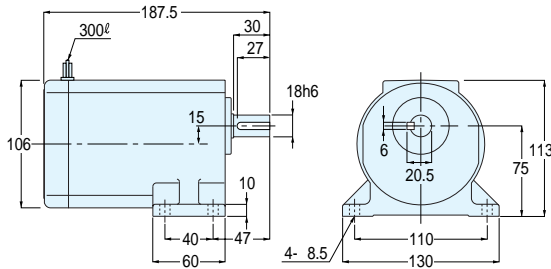
**Fig.A-159** GLM-15-80 ~ 120-S40  
GLM-15-80 ~ 120-S40W



[ Round Weight 3 kg ]

CAD Data: GLM-15-S40  
GLM-15-S40W

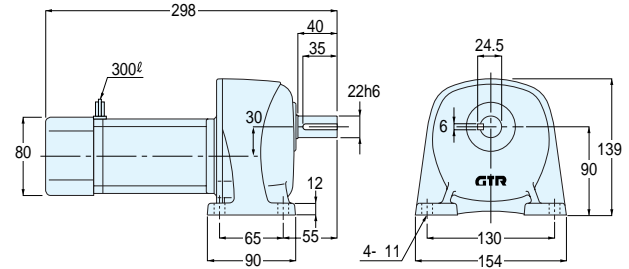
**Fig.A-160** GLM-18-160 ~ 240-S40  
GLM-18-160 ~ 240-S40W



[ Round Weight 4 kg ]

CAD Data: GLM-18-S40  
GLM-18-S40W

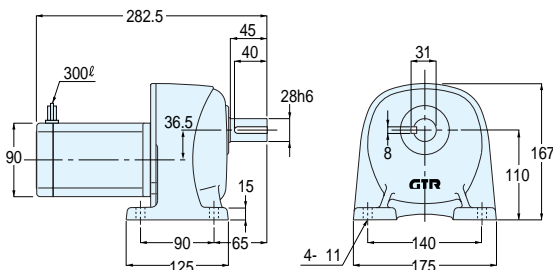
**Fig.A-161** GLM-22-300 ~ 450-S40  
GLM-22-300 ~ 450-S40W



[ Round Weight 5 kg ]

CAD Data: GLM-22-S40  
GLM-22-S40W

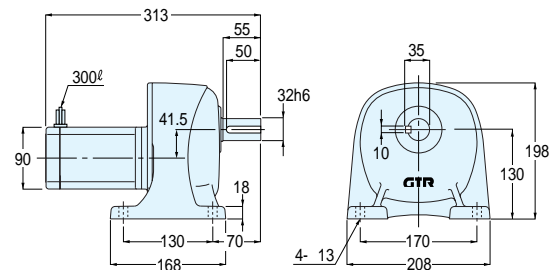
**Fig.A-162** GLM-28-600 ~ 900-S40  
GLM-28-600 ~ 900-S40W



[ Round Weight 7 kg ]

CAD Data: GLM-28-S40  
GLM-28-S40W

**Fig.A-163** GLM-32-1200 ~ 1800-S40  
GLM-32-1200 ~ 1800-S40W



[ Round Weight 11 kg ]

CAD Data: GLM-32-S40  
GLM-32-S40W

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 1-Phase 40W

### Flange Mount Type Gearmotor



Flange Mount type

Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

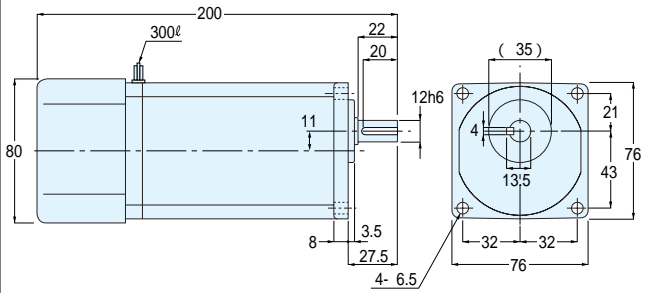
Standard Motors

Cautions for Safety

Option

**Fig.A-164**

**GFM-12-5 ~ 60-S40**  
**GFM-12-5 ~ 60-S40W**

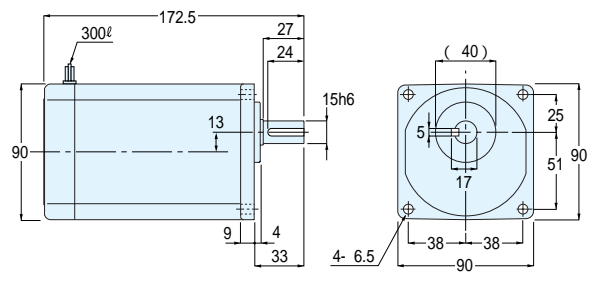


[ Round Weight 2 kg ]

CAD Data: GFM-12-S40  
GFM-12-S40W

**Fig.A-165**

**GFM-15-80 ~ 120-S40**  
**GFM-15-80 ~ 120-S40W**

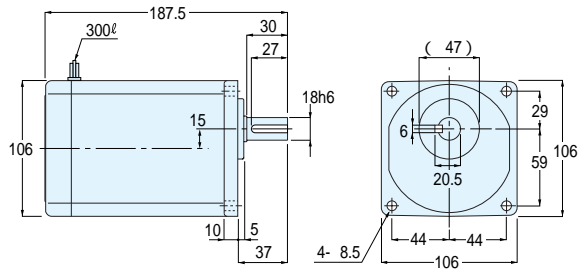


[ Round Weight 3 kg ]

CAD Data: GFM-15-S40  
GFM-15-S40W

**Fig.A-166**

**GFM-18-160 ~ 240-S40**  
**GFM-18-160 ~ 240-S40W**

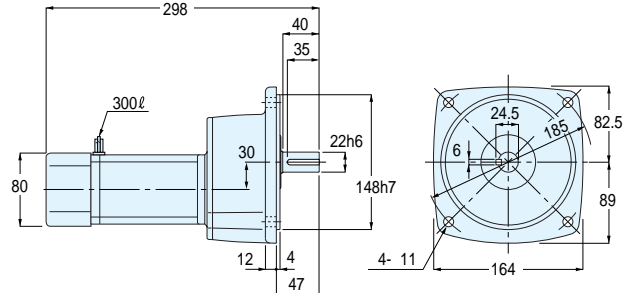


[ Round Weight 4 kg ]

CAD Data: GFM-18-S40  
GFM-18-S40W

**Fig.A-167**

**GFM-22-300 ~ 450-S40**  
**GFM-22-300 ~ 450-S40W**

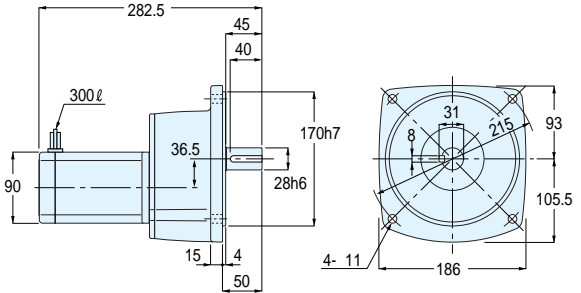


[ Round Weight 5 kg ]

CAD Data: GFM-22-S40  
GFM-22-S40W

**Fig.A-168**

**GFM-28-600 ~ 900-S40**  
**GFM-28-600 ~ 900-S40W**

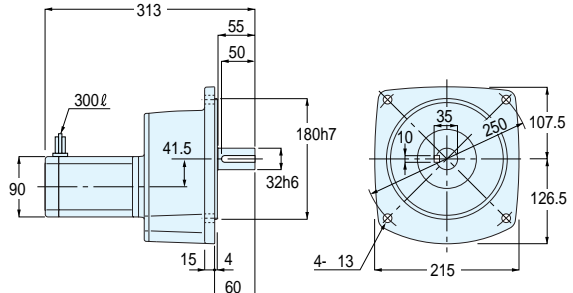


[ Round Weight 7 kg ]

CAD Data: GFM-28-S40  
GFM-28-S40W

**Fig.A-169**

**GFM-32-1200 ~ 1800-S40**  
**GFM-32-1200 ~ 1800-S40W**



[ Round Weight 11 kg ]

CAD Data: GFM-32-S40  
GFM-32-S40W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code  
P.A6

Lead-Wire/Terminal Box  
Position Mark  
P.E54

Option  
P.E110



Small Flange Mount type  
(Frame Number 22 ~ 32)

## Small Flange Mount Type Gearmotor

**Fig.A-170** **GKM-22-300 ~ 450-S40**  
**GKM-22-300 ~ 450-S40W**

[ Round Weight 5 kg ] CAD Data: GKM-22-S40  
GKM-22-S40W

**Fig.A-171** **GKM-28-600 ~ 900-S40**  
**GKM-28-600 ~ 900-S40W**

[ Round Weight 7 kg ] CAD Data: GKM-28-S40  
GKM-28-S40W

**Fig.A-172** **GKM-32-1200 ~ 1800-S40**  
**GKM-32-1200 ~ 1800-S40W**

[ Round Weight 11 kg ] CAD Data: GKM-32-S40  
GKM-32-S40W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

# Gearmotor with Brake

## G-Type [Parallel Shaft] 1-Phase 40W

### Foot Mount Type Gearmotor with Brake



Foot Mount type

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-173** GLMN-12-5 ~ 60-S40  
GLMN-12-5 ~ 60-S40W

[ Round Weight 2 kg ] CAD Data: GLMN-12-S40  
GLMN-12-S40W

**Fig.A-174** GLMN-15-80 ~ 120-S40  
GLMN-15-80 ~ 120-S40W

[ Round Weight 3 kg ] CAD Data: GLMN-15-S40  
GLMN-15-S40W

**Fig.A-175** GLMN-18-160 ~ 240-S40  
GLMN-18-160 ~ 240-S40W

[ Round Weight 4 kg ] CAD Data: GLMN-18-S40  
GLMN-18-S40W

**Fig.A-176** GLMN-22-300 ~ 450-S40  
GLMN-22-300 ~ 450-S40W

[ Round Weight 5 kg ] CAD Data: GLMN-22-S40  
GLMN-22-S40W

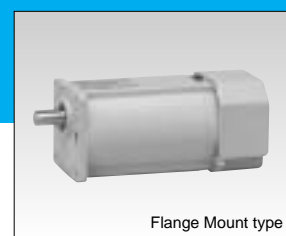
**Fig.A-177** GLMN-28-600 ~ 900-S40  
GLMN-28-600 ~ 900-S40W

[ Round Weight 7 kg ] CAD Data: GLMN-28-S40  
GLMN-28-S40W

**Fig.A-178** GLMN-32-1200 ~ 1800-S40  
GLMN-32-1200 ~ 1800-S40W

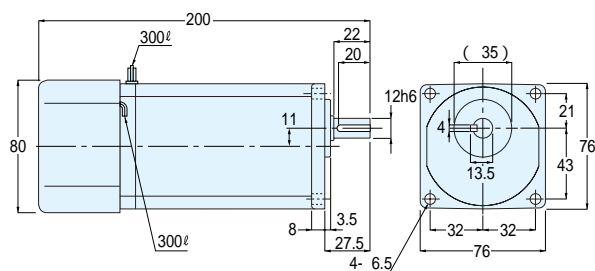
[ Round Weight 11 kg ] CAD Data: GLMN-32-S40  
GLMN-32-S40W

- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110



## Flange Mount Type Gearmotor with Brake

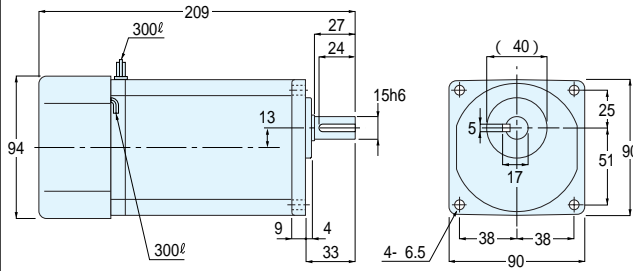
**Fig.A-179** GFMN-12-5 ~ 60-S40  
GFMN-12-5 ~ 60-S40W



[ Round Weight 2 kg ]

CAD Data: GFMN-12-S40  
GFMN-12-S40W

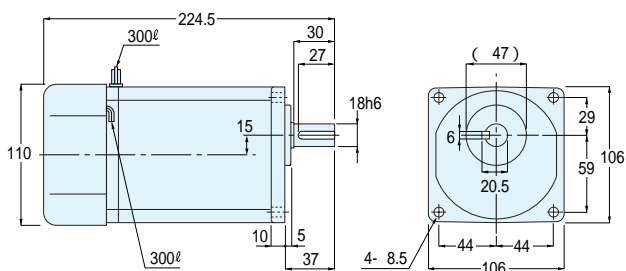
**Fig.A-180** GFMN-15-80 ~ 120-S40  
GFMN-15-80 ~ 120-S40W



[ Round Weight 3 kg ]

CAD Data: GFMN-15-S40  
GFMN-15-S40W

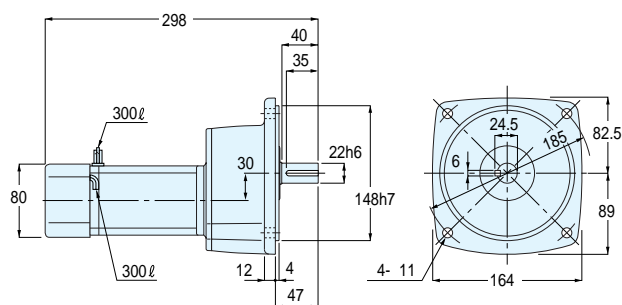
**Fig.A-181** GFMN-18-160 ~ 240-S40  
GFMN-18-160 ~ 240-S40W



[ Round Weight 4 kg ]

CAD Data: GFMN-18-S40  
GFMN-18-S40W

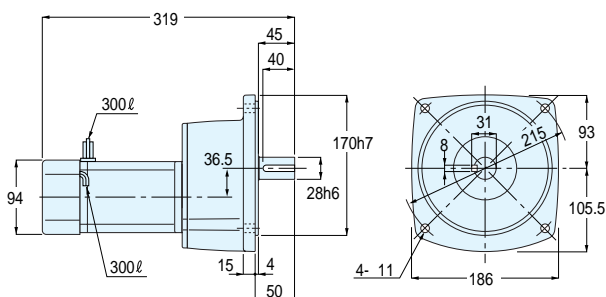
**Fig.A-182** GFMN-22-300 ~ 450-S40  
GFMN-22-300 ~ 450-S40W



[ Round Weight 5 kg ]

CAD Data: GFMN-22-S40  
GFMN-22-S40W

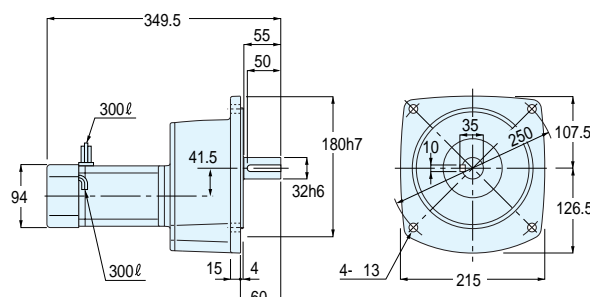
**Fig.A-183** GFMN-28-600 ~ 900-S40  
GFMN-28-600 ~ 900-S40W



[ Round Weight 7 kg ]

CAD Data: GFMN-28-S40  
GFMN-28-S40W

**Fig.A-184** GFMN-32-1200 ~ 1800-S40  
GFMN-32-1200 ~ 1800-S40W



[ Round Weight 11 kg ]

CAD Data: GFMN-32-S40  
GFMN-32-S40W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

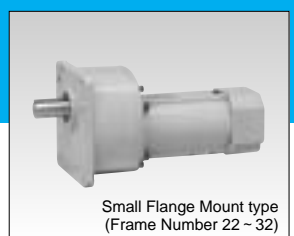
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 40W

### Small Flange Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/  
Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/  
Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/  
Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/  
Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-185** **GKMN-22-300 ~ 450-S40**  
**GKMN-22-300 ~ 450-S40W**

[ Round Weight 5 kg ] CAD Data: GKMN-22-S40  
GKMN-22-S40W

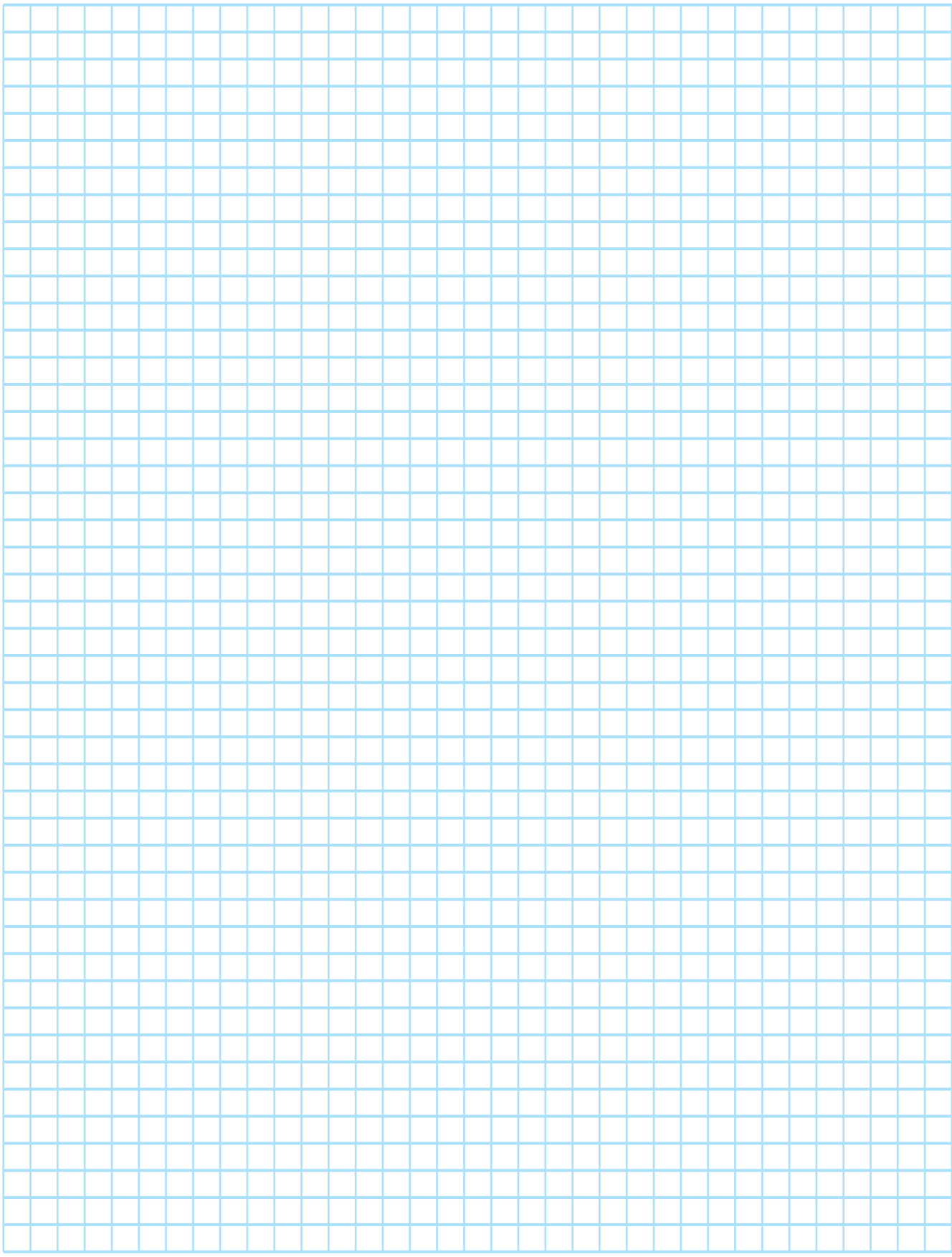
**Fig.A-186** **GKMN-28-600 ~ 900-S40**  
**GKMN-28-600 ~ 900-S40W**

[ Round Weight 7 kg ] CAD Data: GKMN-28-S40  
GKMN-28-S40W

**Fig.A-187** **GKMN-32-1200 ~ 1800-S40**  
**GKMN-32-1200 ~ 1800-S40W**

[ Round Weight 11 kg ] CAD Data: GKMN-32-S40  
GKMN-32-S40W

- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110



Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 60W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	S60	100/100	50/60	15	0.90/1.00	1350/1600	15	E	Totally Enclosed or Totally Enclosed Fan-cooled
					18	0.90/1.00	1400/1650	15		
					22	0.90/1.10	1300/1500	15		
					28	0.90/1.00	1350/1600	15		
					32	0.90/1.00	1350/1600	15		
Double Voltage (Continuous Rated 4 Poles)		S60W	200/200	50/60	15	0.45/0.48	1350/1600	3.5		
					18	0.42/0.45	1400/1650	3.5		
					22	0.43/0.50	1300/1500	3.5		
					28	0.45/0.48	1350/1600	3.5		
					32	0.45/0.48	1350/1600	3.5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight					
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake		
			GLM	GFM	GKM	GLMN	GFMN	GKMN						
1-phase 60W	15	1/ 5	300	360	1.37	0.14	98	10	P.A65 Fig.A-188 3kg	P.A66 Fig.A-193 3kg		P.A68 Fig.A-201 3kg	P.A69 Fig.A-206 3kg	
		1/ 7.5	200	240	2.06	0.21	196	20						
		1/ 10	150	180	2.74	0.28	245	25						
		1/ 15	100	120	4.12	0.42	343	35						
		1/ 20	75	90	5.49	0.56	441	45						
		1/ 25	60	72	6.96	0.71	490	50						
		1/ 30	50	60	8.33	0.85	539	55						
		1/ 40	37.5	45	10.8	1.1	784	80						
		1/ 50	30	36	13.7	1.4	882	90						
		1/ 60	25	30	16.7	1.7	882	90						
	18	1/ 80	18.8	22.5	20.6	2.1	1270	130	P.A65 Fig.A-189 4kg	P.A66 Fig.A-194 4kg		P.A68 Fig.A-202 4kg	P.A69 Fig.A-207 4kg	
		1/ 100	15	18	26.5	2.7	1270	130						
		1/ 120	12.5	15	31.4	3.2	1370	140						
		1/ 160	9.4	11.2	42.1	4.3	1370	140						
		1/ 200	7.5	9	52.9	5.4	1370	140						
		* 1/ 240	6.3	7.5	53.9	5.5	1370	140						
	22	1/ 300	5	6	70.6	7.2	1760	180	P.A65 Fig.A-190 5kg	P.A66 Fig.A-195 5kg	P.A67 Fig.A-198 5kg	P.A68 Fig.A-203 5kg	P.A69 Fig.A-208 5kg	P.A70 Fig.A-211 5kg
		1/ 375	4	4.8	88.2	9.0	1760	180						
		1/ 450	3.3	4	108	11	1760	180						
	28	1/ 600	2.5	3	137	14	2740	280	P.A65 Fig.A-191 7kg	P.A66 Fig.A-196 7kg	P.A67 Fig.A-199 7kg	P.A68 Fig.A-204 7kg	P.A69 Fig.A-209 7kg	P.A70 Fig.A-212 7kg
		1/ 750	2	2.4	176	18	2740	280						
		1/ 900	1.7	2	216	22	2740	280						
	32	1/1200	1.3	1.5	284	29	5100	520	P.A65 Fig.A-192 11kg	P.A66 Fig.A-197 11kg	P.A67 Fig.A-200 11kg	P.A68 Fig.A-205 11kg	P.A69 Fig.A-210 11kg	P.A70 Fig.A-213 11kg
		1/1500	1	1.2	353	36	5100	520						
1/1800		0.8	1	421	43	5100	520							

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A45.

<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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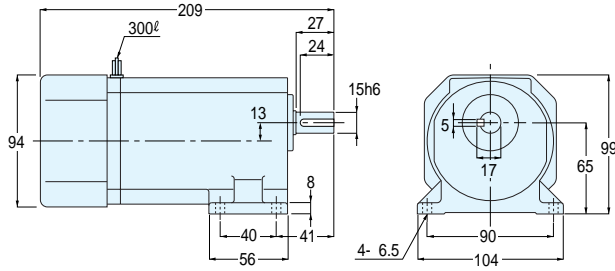
# Gearmotor



Foot Mount type

## Foot Mount Type Gearmotor

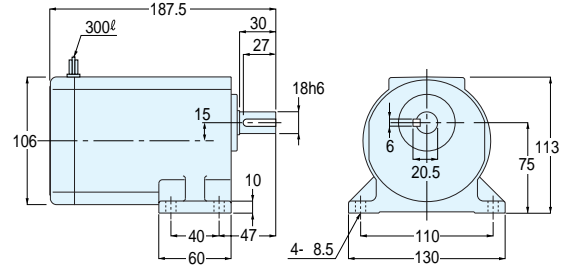
**Fig.A-188** GLM-15-5 ~ 60-S60  
GLM-15-5 ~ 60-S60W



[ Round Weight 3 kg ]

CAD Data: GLM-15-S60  
GLM-15-S60W

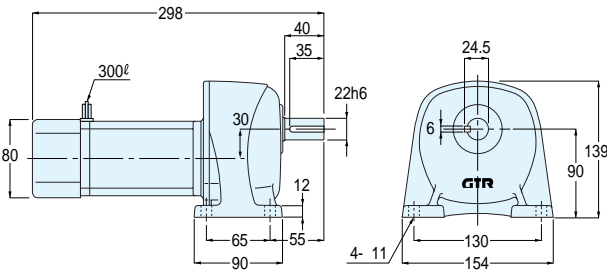
**Fig.A-189** GLM-18-80 ~ 240-S60  
GLM-18-80 ~ 240-S60W



[ Round Weight 4 kg ]

CAD Data: GLM-18-S60  
GLM-18-S60W

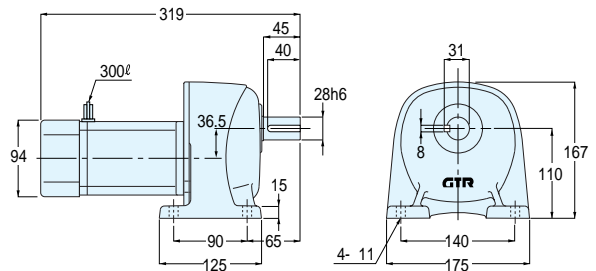
**Fig.A-190** GLM-22-300 ~ 450-S60  
GLM-22-300 ~ 450-S60W



[ Round Weight 5 kg ]

CAD Data: GLM-22-S60  
GLM-22-S60W

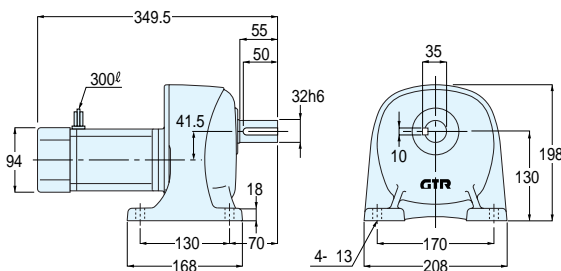
**Fig.A-191** GLM-28-600 ~ 900-S60  
GLM-28-600 ~ 900-S60W



[ Round Weight 7 kg ]

CAD Data: GLM-28-S60  
GLM-28-S60W

**Fig.A-192** GLM-32-1200 ~ 1800-S60  
GLM-32-1200 ~ 1800-S60W



[ Round Weight 11 kg ]

CAD Data: GLM-32-S60  
GLM-32-S60W

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 1-Phase 60W

### Flange Mount Type Gearmotor



Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

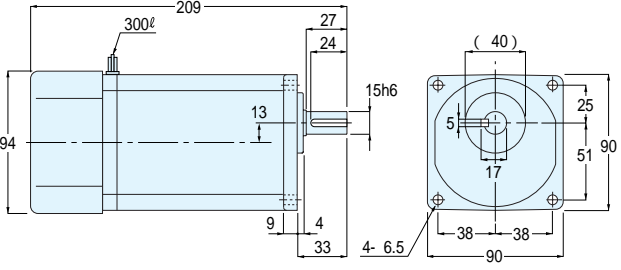
Standard Motors

Cautions for Safety

Option

**Fig.A-193**

**GFM-15-5 ~ 60-S60**  
**GFM-15-5 ~ 60-S60W**

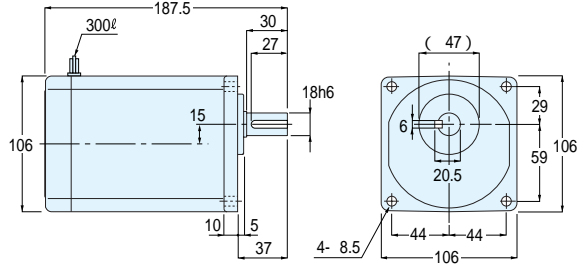


[ Round Weight 3 kg ]

CAD Data: GFM-15-S60  
GFM-15-S60W

**Fig.A-194**

**GFM-18-80 ~ 240-S60**  
**GFM-18-80 ~ 240-S60W**

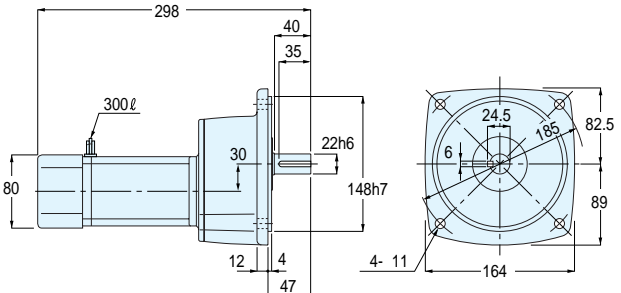


[ Round Weight 4 kg ]

CAD Data: GFM-18-S60  
GFM-18-S60W

**Fig.A-195**

**GFM-22-300 ~ 450-S60**  
**GFM-22-300 ~ 450-S60W**

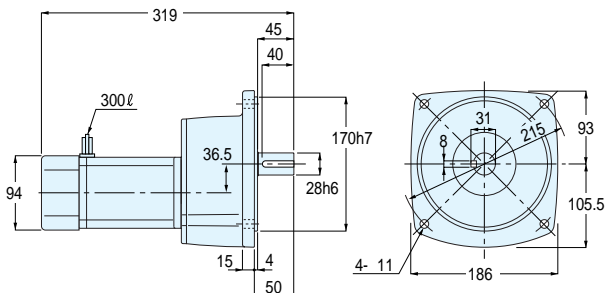


[ Round Weight 5 kg ]

CAD Data: GFM-22-S60  
GFM-22-S60W

**Fig.A-196**

**GFM-28-600 ~ 900-S60**  
**GFM-28-600 ~ 900-S60W**

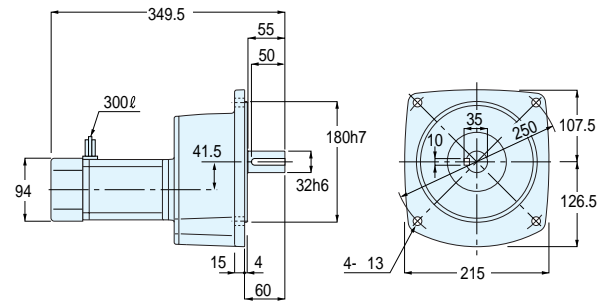


[ Round Weight 7 kg ]

CAD Data: GFM-28-S60  
GFM-28-S60W

**Fig.A-197**

**GFM-32-1200 ~ 1800-S60**  
**GFM-32-1200 ~ 1800-S60W**



[ Round Weight 11 kg ]

CAD Data: GFM-32-S60  
GFM-32-S60W

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

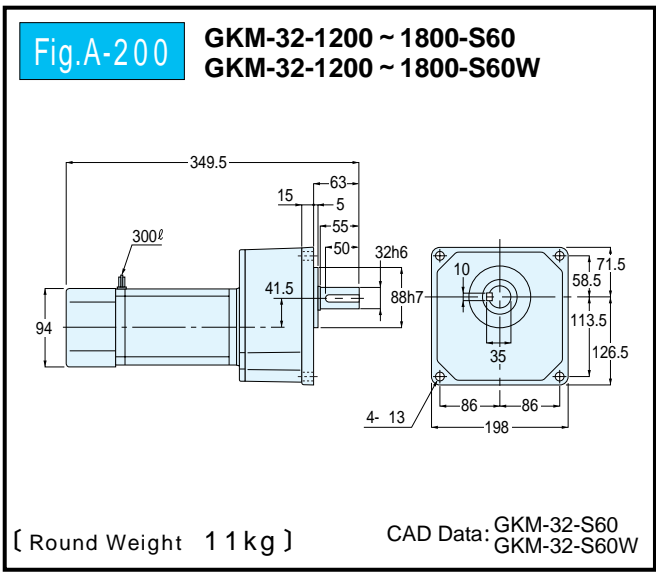
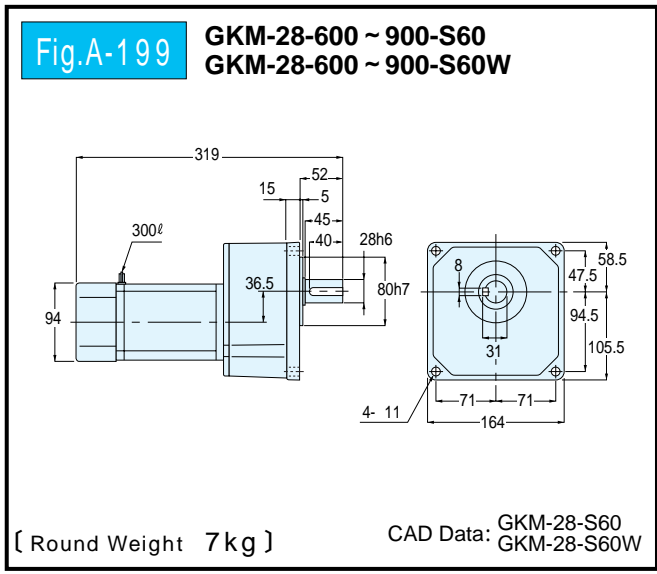
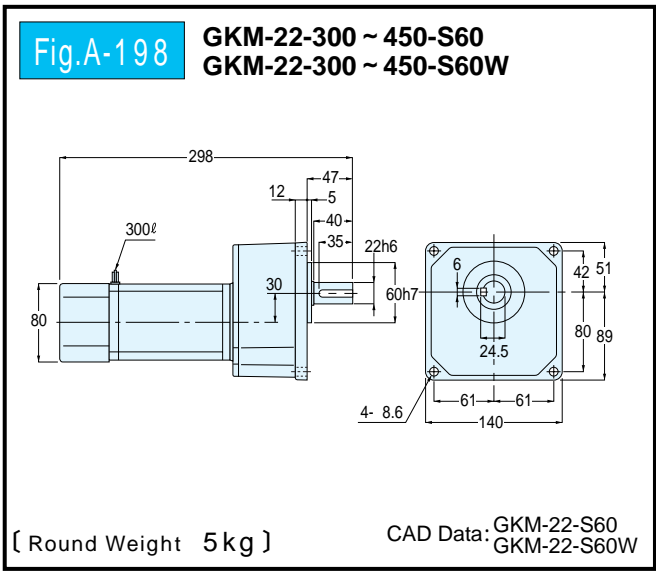
Model Code  
P.A6

Lead-Wire/Terminal Box  
Position Mark  
P.E54

Option  
P.E110



## Small Flange Mount Type Gearmotor



Parallel Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

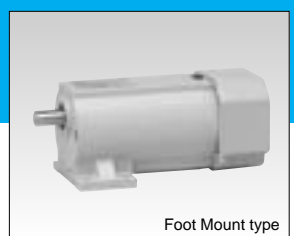
Option

GTR Mini Series

# Gearmotor with Brake

## G-Type [ Parallel Shaft ] 1-Phase 60W

### Foot Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

**Fig.A-201** GLMN-15-5 ~ 60-S60  
GLMN-15-5 ~ 60-S60W

[ Round Weight 3 kg ] CAD Data: GLMN-15-S60  
GLMN-15-S60W

**Fig.A-202** GLMN-18-80 ~ 240-S60  
GLMN-18-80 ~ 240-S60W

[ Round Weight 4 kg ] CAD Data: GLMN-18-S60  
GLMN-18-S60W

**Fig.A-203** GLMN-22-300 ~ 450-S60  
GLMN-22-300 ~ 450-S60W

[ Round Weight 5 kg ] CAD Data: GLMN-22-S60  
GLMN-22-S60W

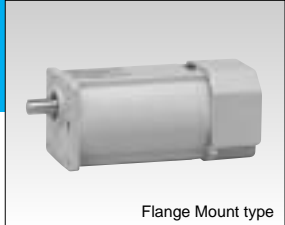
**Fig.A-204** GLMN-28-600 ~ 900-S60  
GLMN-28-600 ~ 900-S60W

[ Round Weight 7 kg ] CAD Data: GLMN-28-S60  
GLMN-28-S60W

**Fig.A-205** GLMN-32-1200 ~ 1800-S60  
GLMN-32-1200 ~ 1800-S60W

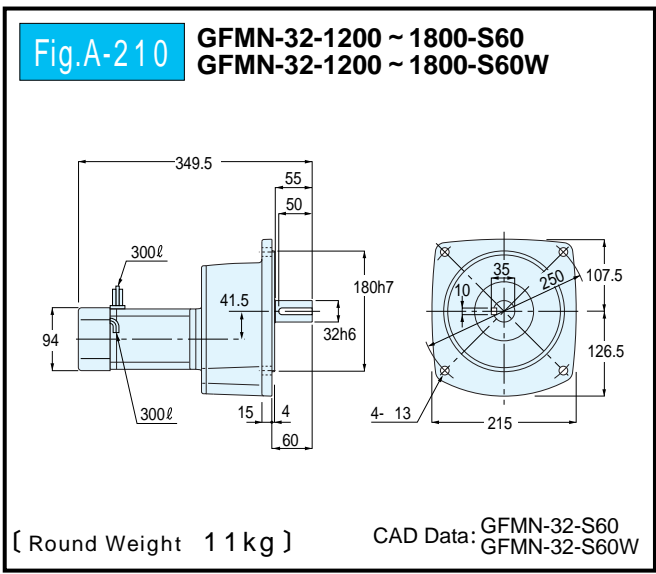
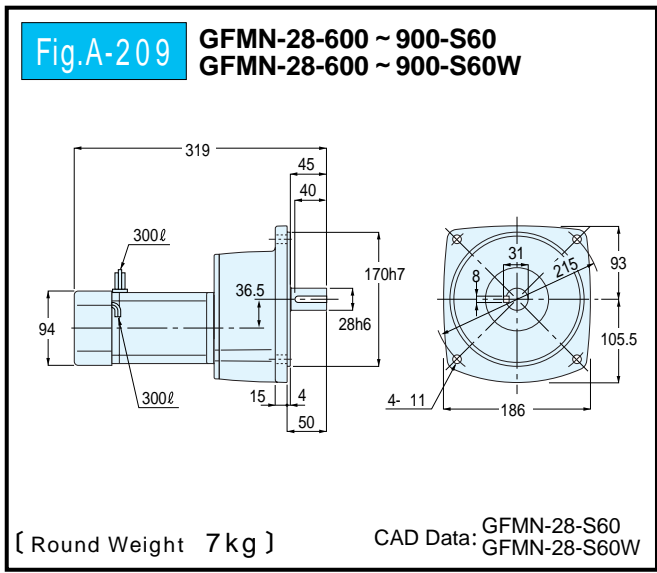
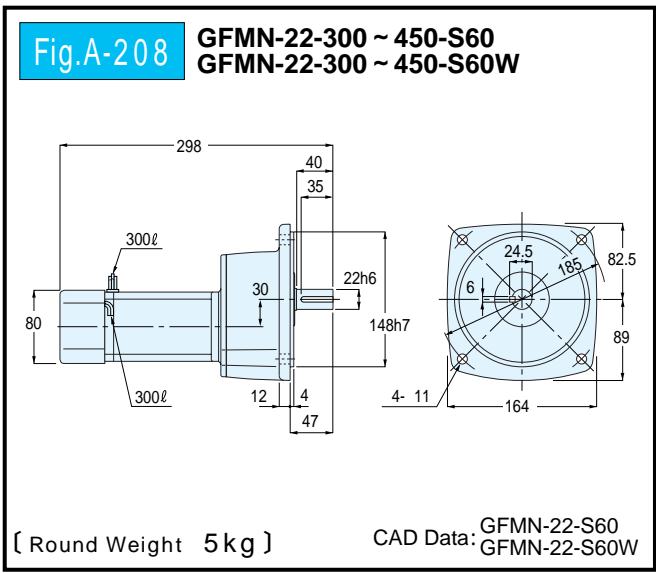
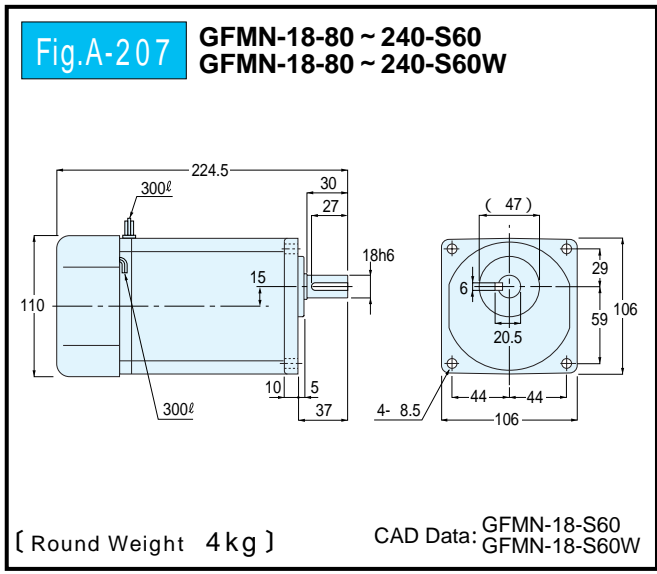
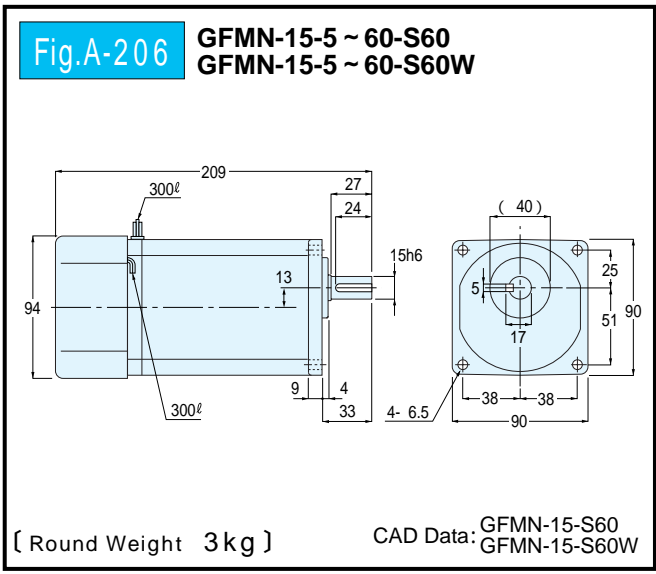
[ Round Weight 11 kg ] CAD Data: GLMN-32-S60  
GLMN-32-S60W

- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110



Flange Mount type

## Flange Mount Type Gearmotor with Brake



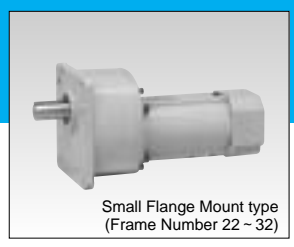
Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension	Gearmotor with Brake
	Water-resistant Gearmotor with Brake
	Speed Control Gearmotor
	Gearmotor with Clutch / Brake
	GT-Type Gearmotor with Brake
Right Angle Shaft Performance Table/ Dimension	Gearmotor with Brake
	With Water-resistant Brake Motor
	Speed Control Gearmotor
Concentric Hollow Shaft Performance Table/ Dimension	Gearmotor with Brake
	With Water-resistant Brake Motor
	Speed Control Gearmotor
Parallel Shaft GTR-L Series Performance Table/ Dimension	Reversible Gearmotor with Brake
	Speed Control Gearmotor with Brake
Technical Information	
	Standard Motors
	Cautions for Safety
	Option

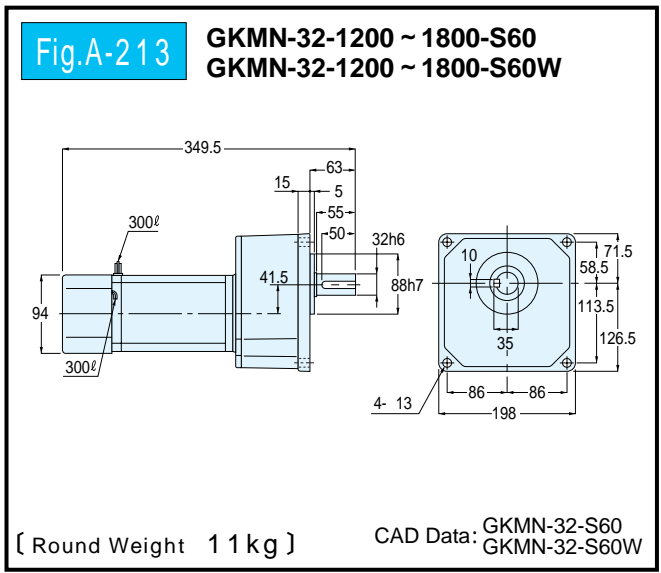
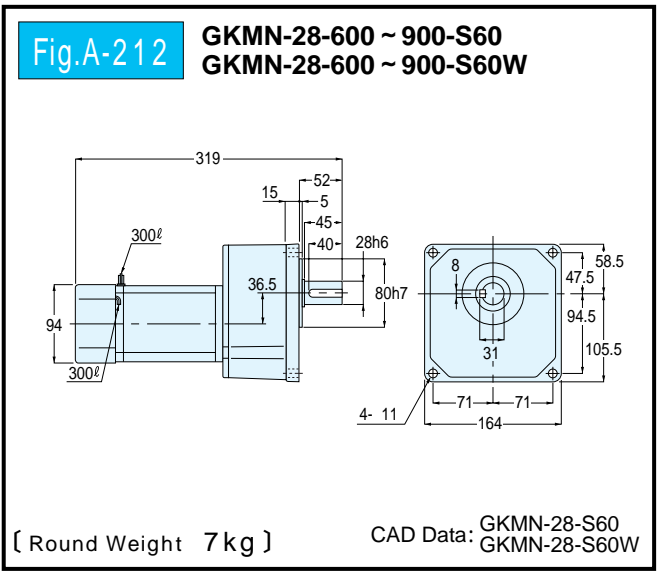
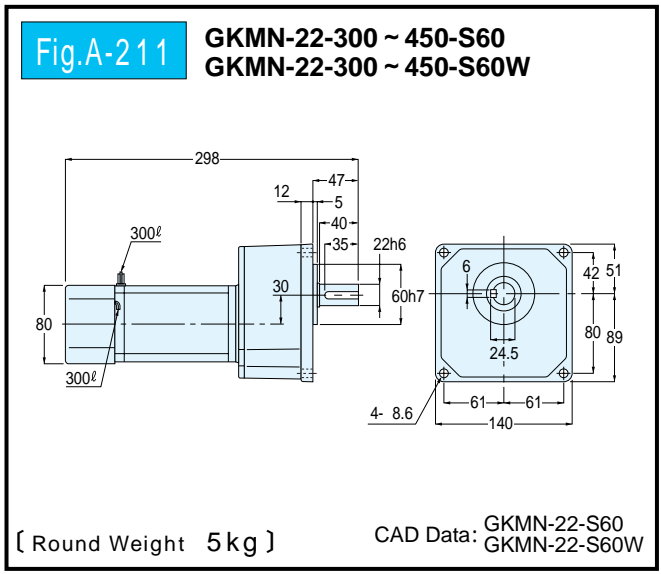
# Gearmotor with Brake

## G-Type [ Parallel Shaft ] 1-Phase 60W

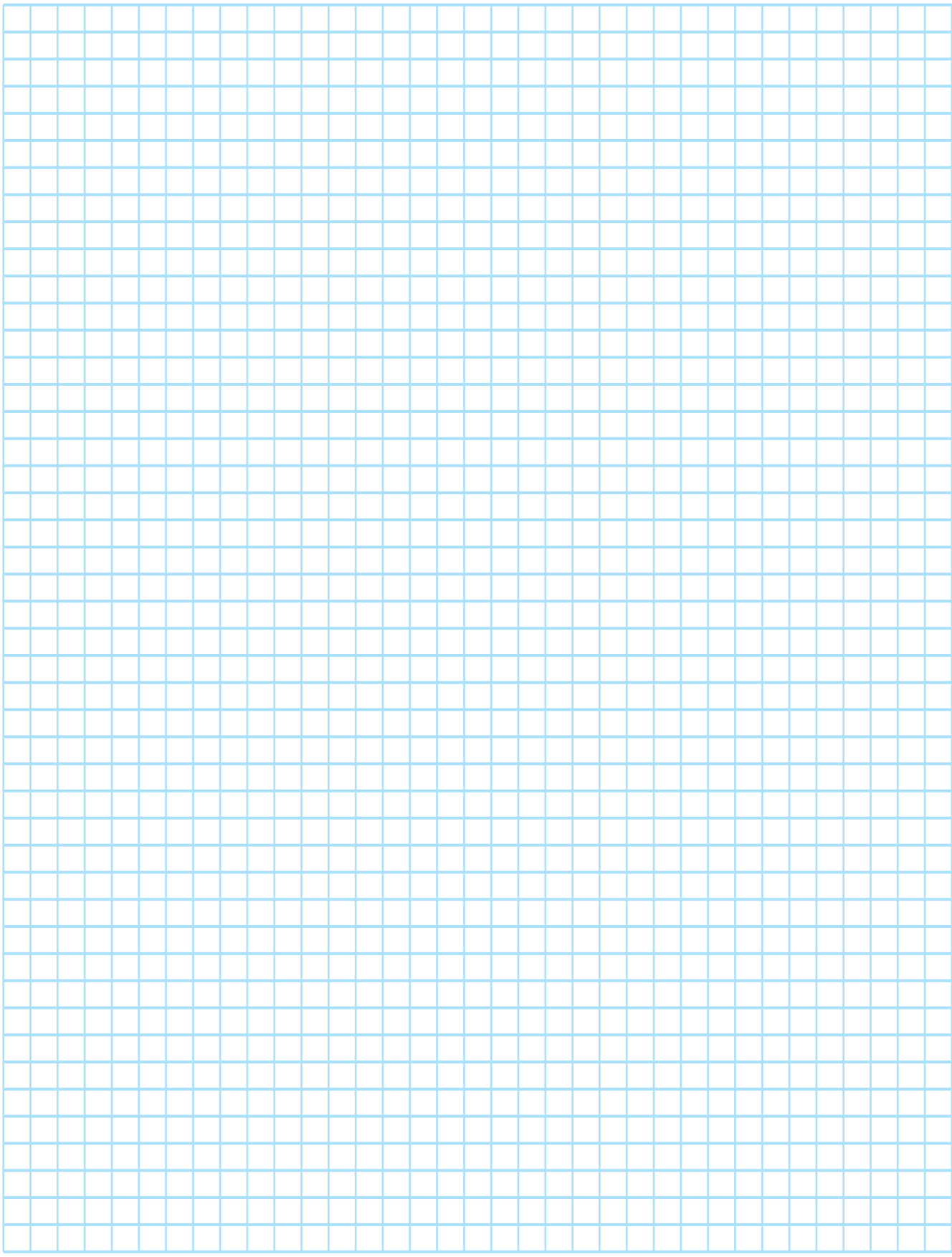
### Small Flange Mount Type Gearmotor with Brake



- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110



Parallel Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Gearmotor Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 90W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	S90	100/100	50/60	15	1.30/1.40	1350/1600	20	E	Totally Enclosed Fan-cooled
					18	1.20/1.40	1350/1600	20		
					28	1.30/1.40	1350/1600	20		
					32	1.30/1.40	1350/1600	20		
					40	1.20/1.40	1350/1600	20		
Double Voltage (Continuous Rated 4 Poles)		S90W	200/200	50/60	15	0.65/0.66	1350/1600	5		
					18	0.59/0.65	1400/1650	5		
					28	0.65/0.66	1350/1600	5		
					32	0.65/0.66	1350/1600	5		
					40	0.59/0.65	1400/1650	5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight					
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor			Gearmotor with Brake		
			GLM	GFM	GKM	GLMN	GFMN	GKMN						
1-phase 90W	15	1/ 5	300	360	2.06	0.21	147	15	P.A73 Fig.A-214 3kg	P.A74 Fig.A-219 3kg	/	P.A76 Fig.A-226 3kg	P.A77 Fig.A-231 3kg	/
		1/ 7.5	200	240	3.14	0.32	245	25						
		1/ 10	150	180	4.12	0.42	343	35						
		1/ 15	100	120	6.17	0.63	441	45						
		1/ 20	75	90	8.33	0.85	539	55						
		1/ 25	60	72	10.8	1.1	588	60						
		1/ 30	50	60	12.7	1.3	686	70						
	18	1/ 40	37.5	45	16.7	1.7	1080	110	P.A73 Fig.A-215 4kg	P.A74 Fig.A-220 4kg	/	P.A76 Fig.A-227 4kg	P.A77 Fig.A-232 4kg	/
		1/ 50	30	36	20.6	2.1	1180	120						
		1/ 60	25	30	24.5	2.5	1180	120						
		1/ 80	18.8	22.5	31.4	3.2	1270	130						
		1/ 100	15	18	39.2	4.0	1270	130						
		1/ 120	12.5	15	47.0	4.8	1370	140						
		*1/ 160	9.4	11.2	53.9	5.5	1370	140						
		*1/ 200	7.5	9	53.9	5.5	1370	140						
	28	1/ 300	5	6	108	11	2740	280	P.A73 Fig.A-216 7kg	P.A74 Fig.A-221 7kg	P.A75 Fig.A-224 7kg	P.A76 Fig.A-228 7kg	P.A77 Fig.A-233 7kg	P.A77 Fig.A-236 7kg
		1/ 375	4	4.8	137	14	2740	280						
		1/ 450	3.3	4	157	16	2740	280						
	32	1/ 600	2.5	3	216	22	5100	520	P.A73 Fig.A-217 11kg	P.A74 Fig.A-222 11kg	P.A75 Fig.A-225 11kg	P.A76 Fig.A-229 11kg	P.A77 Fig.A-234 11kg	P.A77 Fig.A-237 11kg
		1/ 750	2	2.4	265	27	5100	520						
		1/ 900	1.7	2	314	32	5100	520						
	40	1/1200	1.3	1.5	421	43	7060	720	P.A73 Fig.A-218 15kg	P.A74 Fig.A-223 15kg	/	P.A76 Fig.A-230 15kg	P.A77 Fig.A-235 15kg	/
		1/1500	1	1.2	529	54	7060	720						
		1/1800	0.8	1	637	65	7060	720						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A45.

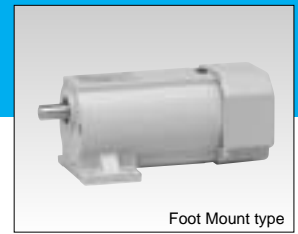
<b>Model Code</b> P.A6	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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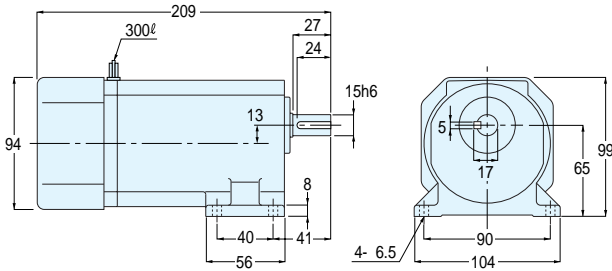
# Gearmotor

## G-Type [ Parallel Shaft ] 1-Phase 90W

### Foot Mount Type Gearmotor



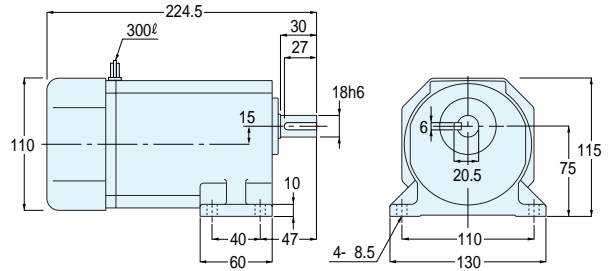
**Fig.A-214** GLM-15-5 ~ 30-S90  
GLM-15-5 ~ 30-S90W



[ Round Weight 3 kg ]

CAD Data: GLM-15-S90  
GLM-15-S90W

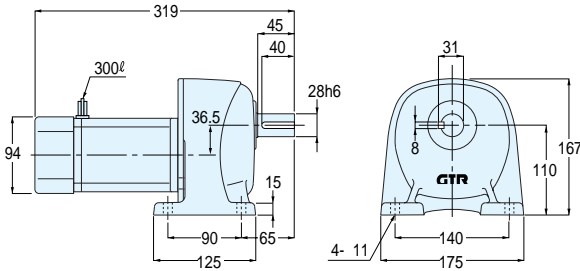
**Fig.A-215** GLM-18-40 ~ 240-S90  
GLM-18-40 ~ 240-S90W



[ Round Weight 4 kg ]

CAD Data: GLM-18-S90  
GLM-18-S90W

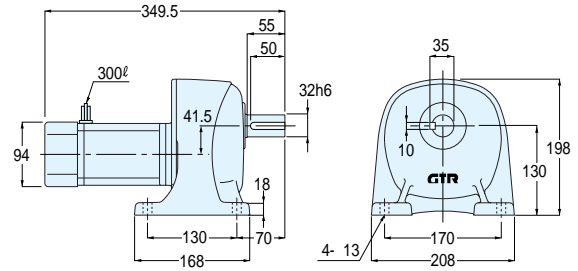
**Fig.A-216** GLM-28-300 ~ 450-S90  
GLM-28-300 ~ 450-S90W



[ Round Weight 7 kg ]

CAD Data: GLM-28-S90  
GLM-28-S90W

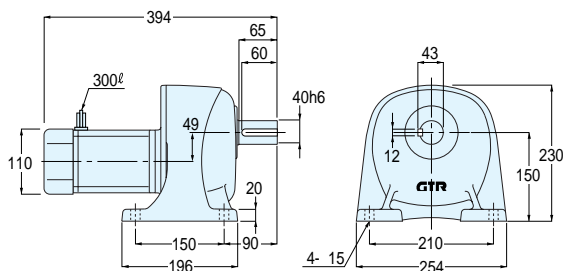
**Fig.A-217** GLM-32-600 ~ 900-S90  
GLM-32-600 ~ 900-S90W



[ Round Weight 11 kg ]

CAD Data: GLM-32-S90  
GLM-32-S90W

**Fig.A-218** GLM-40-1200 ~ 1800-S90  
GLM-40-1200 ~ 1800-S90W



[ Round Weight 15 kg ]

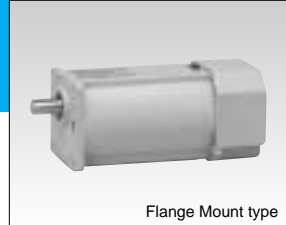
CAD Data: GLM-40-S90  
GLM-40-S90W

GTR Mini Series

# Gearmotor

## G-Type [ Parallel Shaft ] 1-Phase 90W

### Flange Mount Type Gearmotor



Flange Mount type

Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

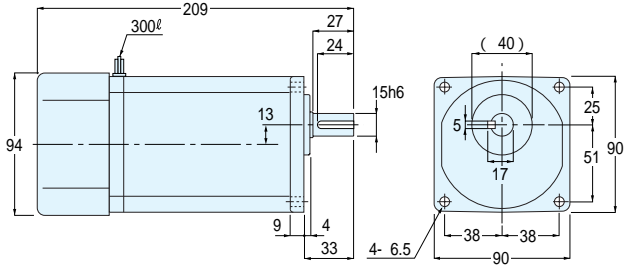
Standard Motors

Cautions for Safety

Option

**Fig.A-219**

**GFM-15-5 ~ 30-S90**  
**GFM-15-5 ~ 30-S90W**

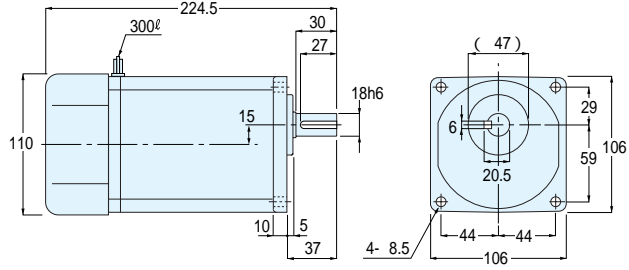


[ Round Weight 3 kg ]

CAD Data: GFM-15-S90  
GFM-15-S90W

**Fig.A-220**

**GFM-18-40 ~ 240-S90**  
**GFM-18-40 ~ 240-S90W**

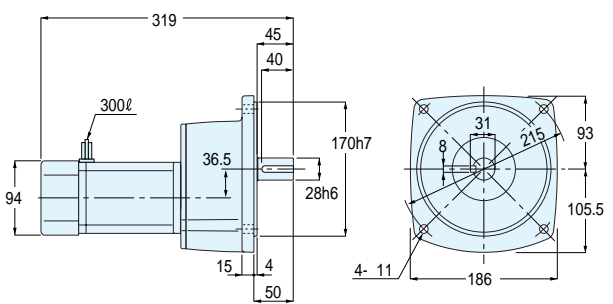


[ Round Weight 4 kg ]

CAD Data: GFM-18-S90  
GFM-18-S90W

**Fig.A-221**

**GFM-28-300 ~ 450-S90**  
**GFM-28-300 ~ 450-S90W**

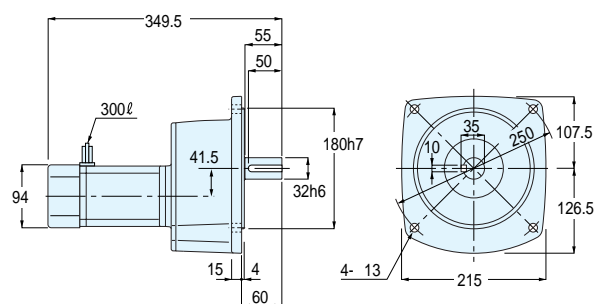


[ Round Weight 7 kg ]

CAD Data: GFM-28-S90  
GFM-28-S90W

**Fig.A-222**

**GFM-32-600 ~ 900-S90**  
**GFM-32-600 ~ 900-S90W**

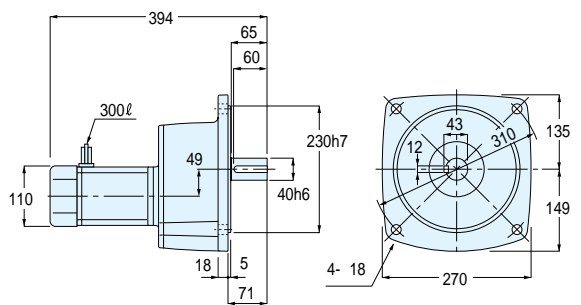


[ Round Weight 11 kg ]

CAD Data: GFM-32-S90  
GFM-32-S90W

**Fig.A-223**

**GFM-40-1200 ~ 1800-S90**  
**GFM-40-1200 ~ 1800-S90W**

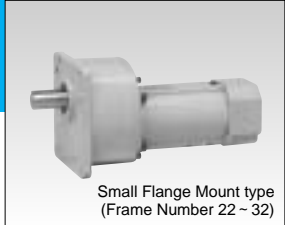


[ Round Weight 15 kg ]

CAD Data: GFM-40-S90  
GFM-40-S90W

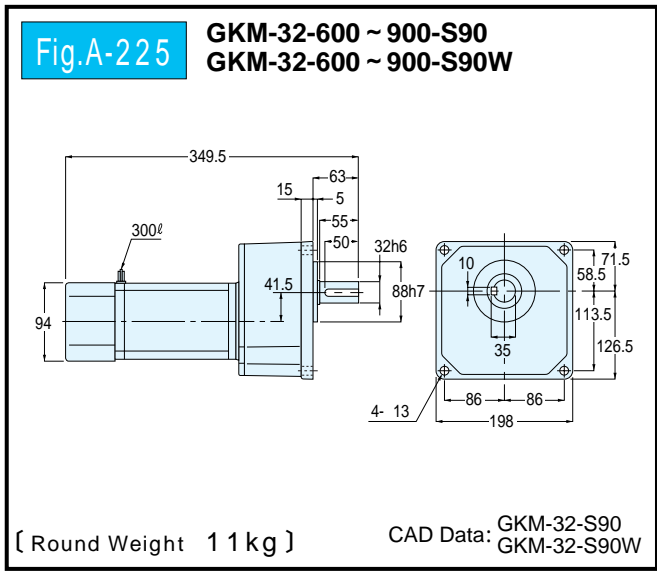
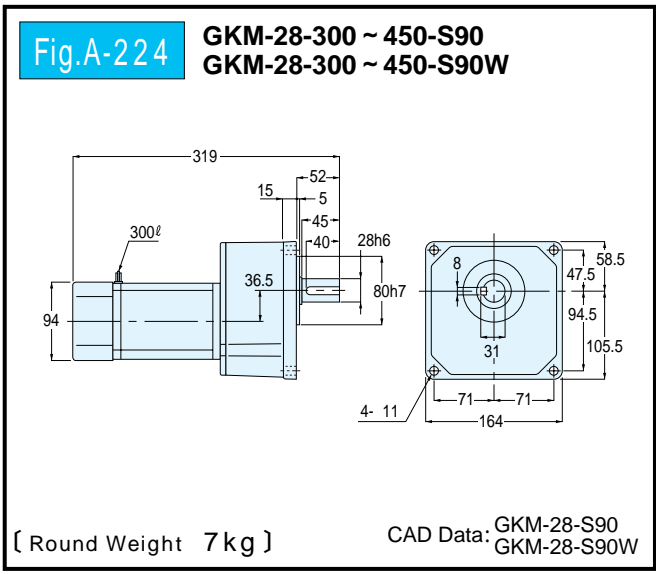
Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A6	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
--------------------	--	------------------



Small Flange Mount type  
(Frame Number 22 ~ 32)

## Small Flange Mount Type Gearmotor



Parallel Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch / Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

GTR Mini Series

# Gearmotor with Brake

## G-Type[Parallel Shaft] 1-Phase 90W

### Foot Mount Type Gearmotor with Brake



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

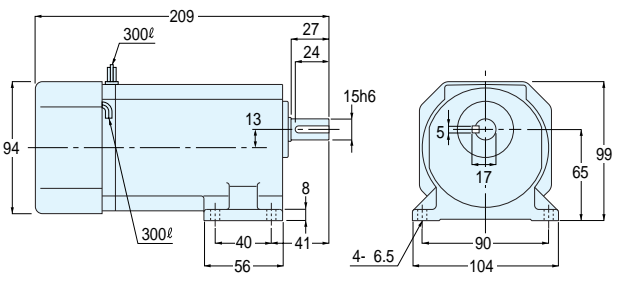
Technical  
Information

Standard  
Motors

Cautions  
for Safety

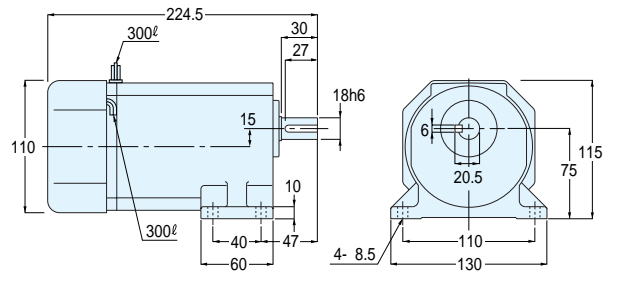
Option

**Fig.A-226** GLMN-15-5 ~ 30-S90  
GLMN-15-5 ~ 30-S90W



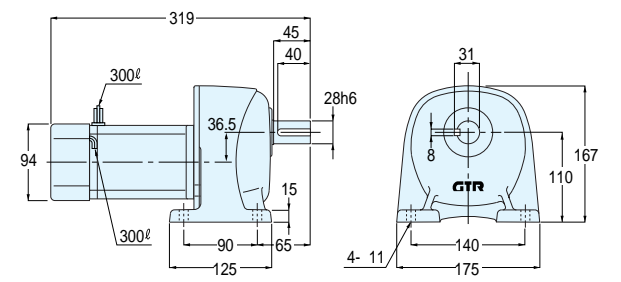
[ Round Weight 3 kg ] CAD Data: GLMN-15-S90  
GLMN-15-S90W

**Fig.A-227** GLMN-18-40 ~ 240-S90  
GLMN-18-40 ~ 240-S90W



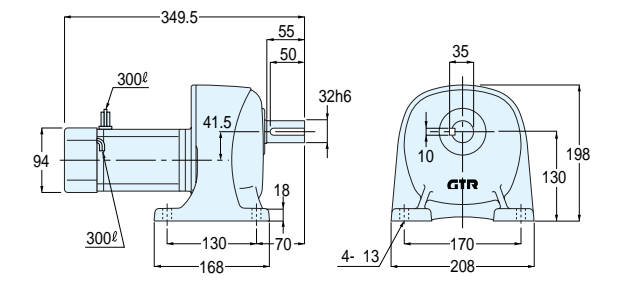
[ Round Weight 4 kg ] CAD Data: GLMN-18-S90  
GLMN-18-S90W

**Fig.A-228** GLMN-28-300 ~ 450-S90  
GLMN-28-300 ~ 450-S90W



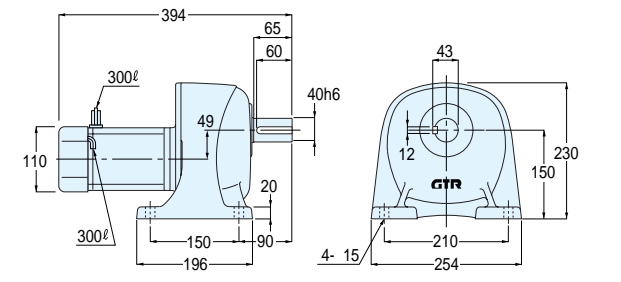
[ Round Weight 7 kg ] CAD Data: GLMN-28-S90  
GLMN-28-S90W

**Fig.A-229** GLMN-32-600 ~ 900-S90  
GLMN-32-600 ~ 900-S90W



[ Round Weight 11 kg ] CAD Data: GLMN-32-S90  
GLMN-32-S90W

**Fig.A-230** GLMN-40-1200 ~ 1800-S90  
GLMN-40-1200 ~ 1800-S90W

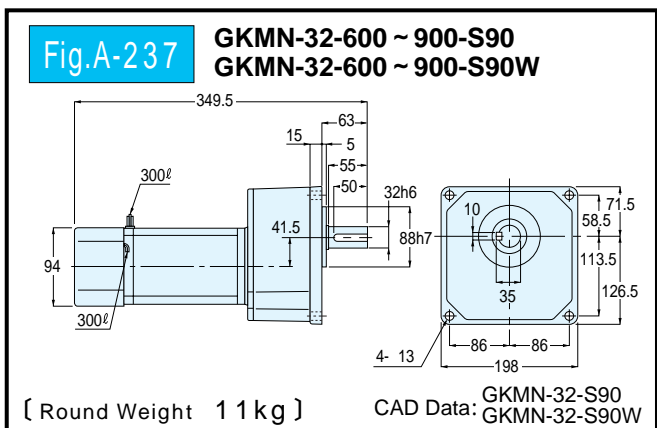
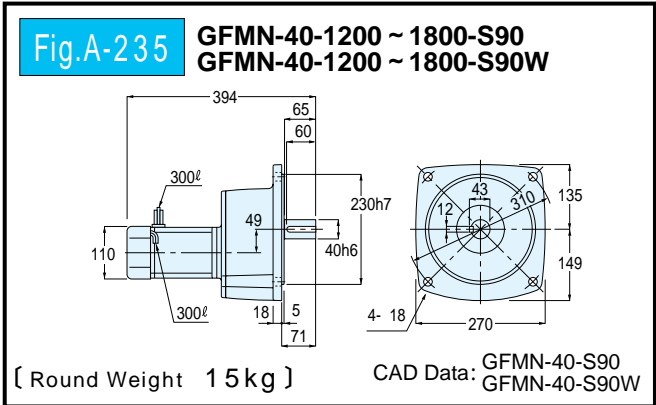
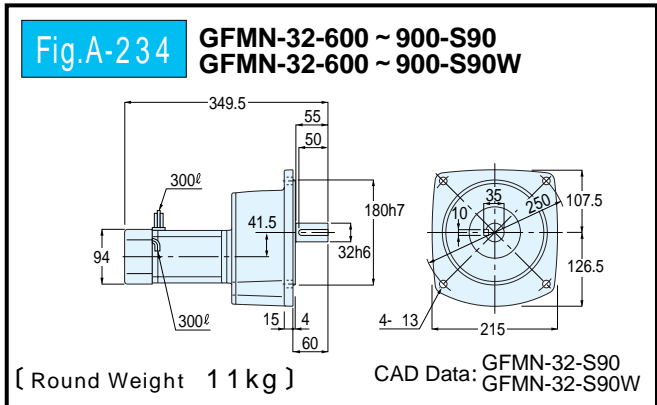
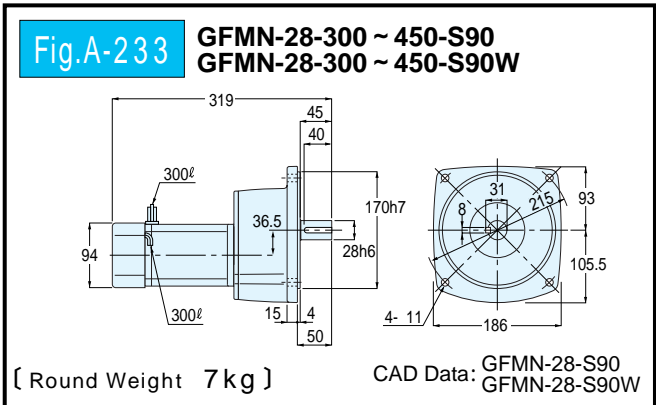
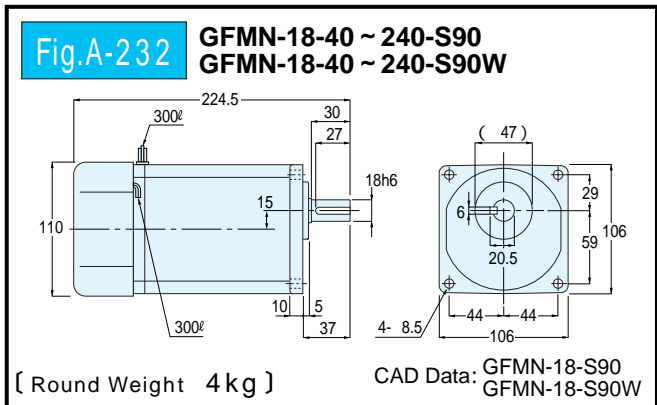
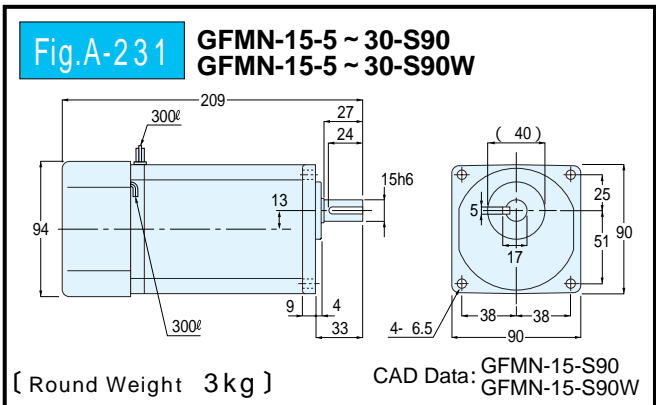


[ Round Weight 15 kg ] CAD Data: GLMN-40-S90  
GLMN-40-S90W

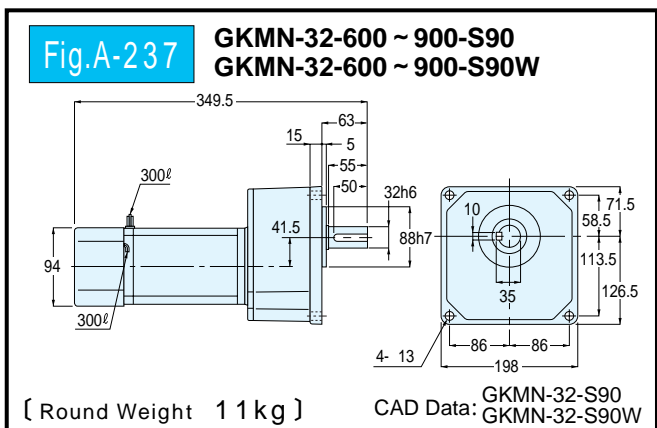
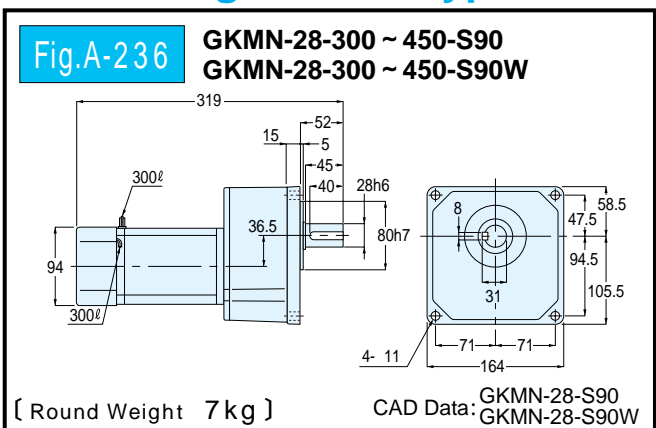
- Model Code  
P.A6
- Lead-Wire/Terminal Box  
Position Mark  
P.E54
- Option  
P.E110



## Flange Mount Type Gearmotor with Brake



## Small Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension	Gearmotor with Brake
	Water-resistant Gearmotor with Brake
	Speed Control Gearmotor
	Gearmotor with Clutch / Brake
	GT-Type Gearmotor with Brake
Right Angle Shaft Performance Table/ Dimension	Gearmotor with Brake
	With Water-resistant Brake Motor
	Speed Control Gearmotor
Concentric Hollow Shaft Performance Table/ Dimension	Gearmotor with Brake
	With Water-resistant Brake Motor
	Speed Control Gearmotor
Parallel Shaft GTR-L Series Performance Table/ Dimension	Reversible Gearmotor with Brake
	Speed Control Gearmotor with Brake
Technical Information	
Standard Motors	
Cautions for Safety	
Option	





# Parallel Shaft IP-65

## Water-Resistant Gearmotor Gearmotor with Brake

### Model • Type Designation Standard Model Lineup

**G**  
Type  
Parallel Shaft

Motor Part	Number of phase	3-Phase	1-Phase
	Capacity	15W ~ 90W	15W ~ 60W
	Power Source	3 Rated Power Source 200V 50/60Hz, 220V/60Hz	
	Insulation Classification	Class E	Class E
	Starting Method	Direct start	Capacitor Start
	Protective cooling Method	Totally Enclosed	
	Number of Pole	4	
Rating	Continuous Rating		
Speed Reduction Part	Reduction Method	Helical gear	
	Lubrication	Grease Lubrication(Maintenance Free)	
	Output Shaft	New JIS Key(JIS 1301-1976 class)	
	Output Shaft Material	SUS420J2	
Case Material	Aluminium die-cast		
Ambient Conditions	Ambient Temperature	- 10 ~ 40	
	Ambient Humidity	100% max.(without any dew condensation)	
	Altitude	1,000m max.	
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.	
Painting	Installation Location	Indoors	
	Painting Method	Anion painting, Acrylic paint	
	Painting Color	Grey(Mansel code: 9B6/0.5)	
Mounting Direction	No restriction in the mounting angle.(horizontally, vertically or heeling angle)		

G-Type Water-resistant(IP65) Gearmotor/Brake Motor are classified by codes as shown below. Specify these codes in your inquiry and order.

Type			Frame Number	Reduction Ratio	Motor Capacity	Auxiliary Mark	Spec. Designation
<b>G</b>	<b>L</b>	<b>W</b>	- <b>12</b>	- <b>50</b>	- <b>T25</b>		
<b>G</b>	<b>F</b>	<b>V</b>	- <b>18</b>	- <b>200</b>	- <b>S90</b>	<b>X</b>	<b>T6</b>

Series Name	G : G-Type(Parallel Shaft)
Classification by Mount Form	L : Foot Mount
	F : Flange Mount
Classification by Motor Type	W : With Water-resistant(IP65)Motor (Output Shaft material:SUS420J2)
	V : With Water-resistant(IP65)Brake Motor(Output Shaft material:SUS420J2)
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 240 : 1 / 240
Motor Designation and Capacity or Standard Volatage/ Frequency	T15 : 3-phase 15W
	T25 : 3-phase 25W
	T40 : 3-phase 40W
	T60 : 3-phase 60W
	T90 : 3-phase 90W
	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S40 : 1-phase 40W
	S60 : 1-phase 60W
	Standard Volatage/Frequency 3-phase: 200V / 50Hz, 200V / 60Hz, 220V / 60Hz 1-phase: 100V / 50Hz, 100V / 60Hz
Auxiliary Mark	Blank : Standard Specs.
	X : Mark for Additional Specs.
Spec. Designation	Position Indicator for cab tyre cable Refer to the indication mark list in P. E54 for details.
<small>Note: Spec. Designation does not appear on the product type designation in the nameplate. It is specified on the additional numbers in the nameplate.</small>	

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



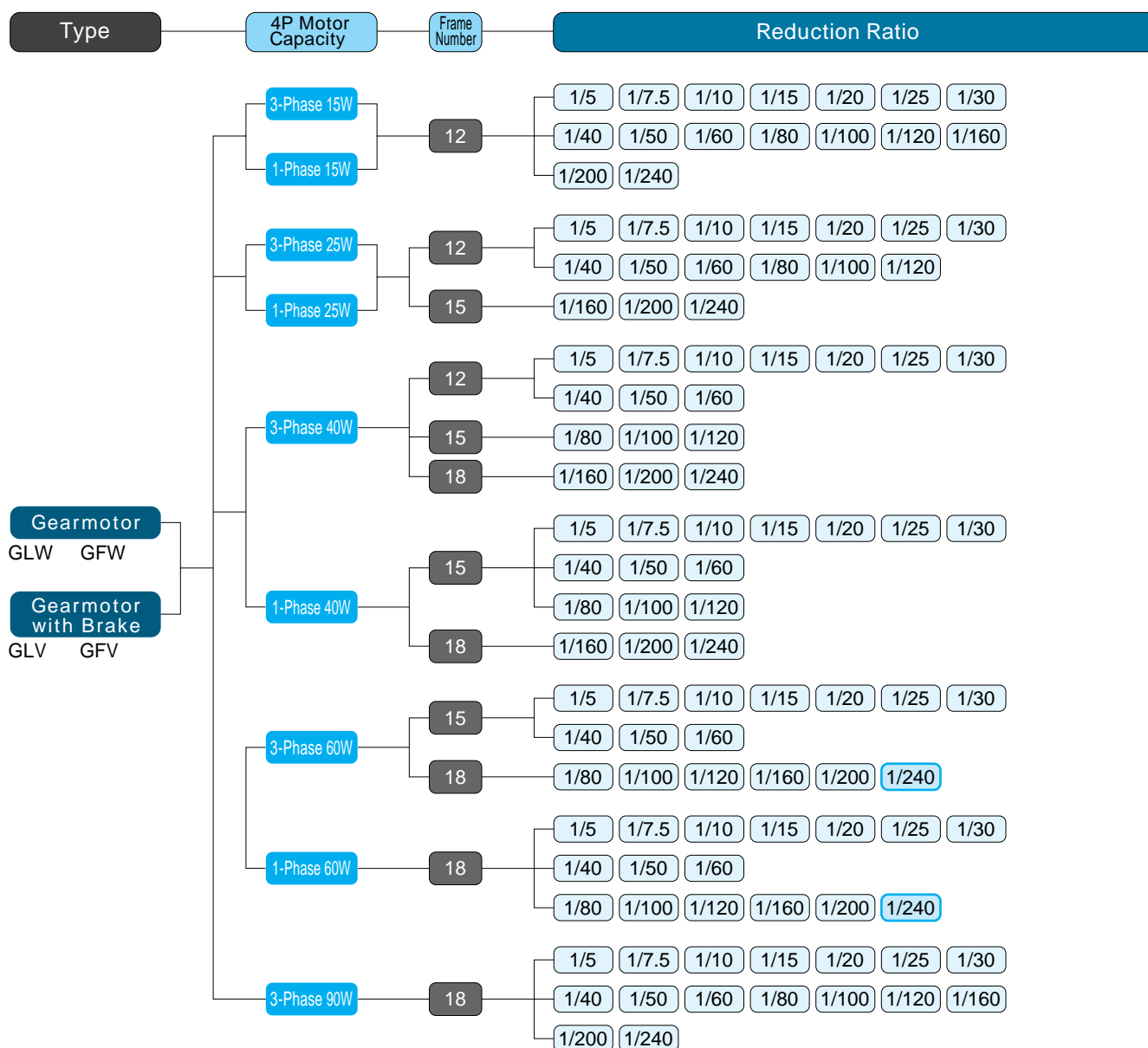
# Standard Model Lineup



Foot Mount type



Flange Mount type



- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option



Note 1 ) 90W 1ph is not available.

2 )    The models enclosed with orange color bold line are low torque type. Special care should be given to the allowable torque in the performance table.

Water-resistant gearmotors with the motor capacity of more than 0.1kW are also available. For details, refer to the catalogue of Midi Serieis.





## Parallel Shaft IP-65

# Water-Resistant Gearmotor with Brake

## Performance Table Dimension diagram


# G Type

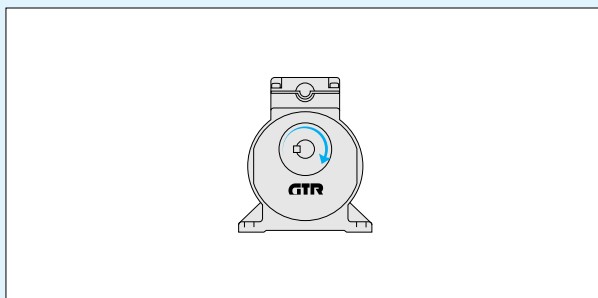
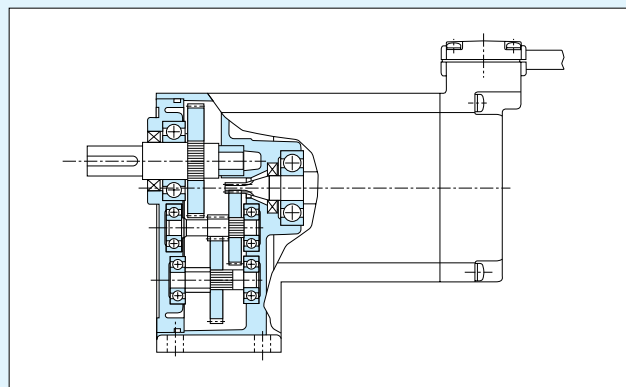
Parallel Shaft

### 3-Phase

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired according to the diagram shown on page E44, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake G-Type[ Parallel Shaft ] 3-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	T15	200/200/220	50/60/60	12	0.14/0.13/0.13	1350/1550/1600	E	Totally Enclosed

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
			GLW	GFW	GLV	GFV						
3-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A85 Fig.A-238 2kg	P.A85 Fig.A-239 2kg	P.A85 Fig.A-240 2kg	P.A85 Fig.A-241 2kg
		1/ 7.5	200	240	0.49	0.05	196	20				
		1/ 10	150	180	0.69	0.07	245	25				
		1/ 15	100	120	0.98	0.10	343	35				
		1/ 20	75	90	1.27	0.13	441	45				
		1/ 25	60	72	1.67	0.17	490	50				
		1/ 30	50	60	1.96	0.20	539	55				
		1/ 40	37.5	45	2.65	0.27	588	60				
		1/ 50	30	36	3.33	0.34	637	65				
		1/ 60	25	30	3.92	0.40	686	70				
		1/ 80	18.8	22.5	5.00	0.51	735	75				
		1/100	15	18	6.27	0.64	735	75				
		1/120	12.5	15	7.45	0.76	784	80				
		1/160	9.4	11.2	9.80	1.0	784	80				
1/200	7.5	9	12.7	1.3	784	80						
1/240	6.3	7.5	14.7	1.5	784	80						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A83.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

<b>Model Code</b> P.A80	<b>Cap tyre cable Position Mark</b> P.E54	<b>Option</b> P.E110
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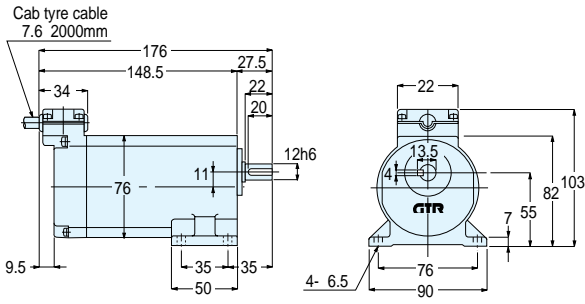
Foot Mount type



Flange Mount type

### Foot Mount Type Gearmotor

**Fig.A-238** GLW-12-5 ~ 240-T15

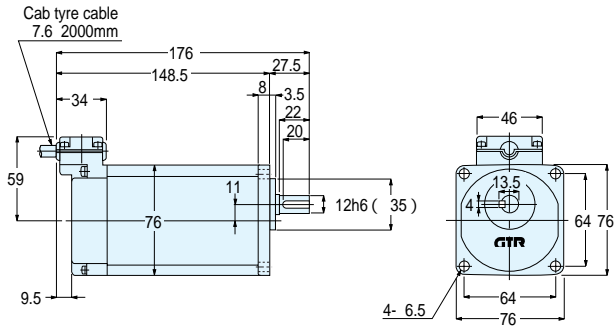


[ Round Weight 2 kg ]

CAD Data: GLW-12-T15

### Flange Mount Type Gearmotor

**Fig.A-239** GFW-12-5 ~ 240-T15

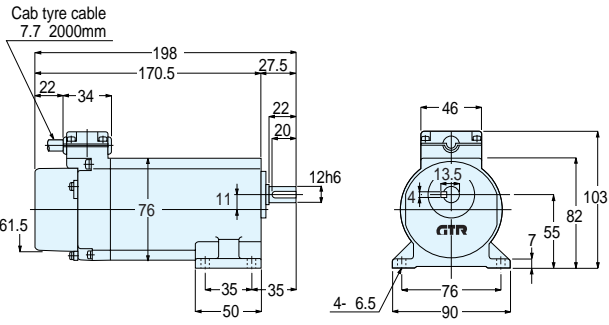


[ Round Weight 2 kg ]

CAD Data: GFW-12-T15

### Foot Mount Type Gearmotor with Brake

**Fig.A-240** GLV-12-5 ~ 240-T15

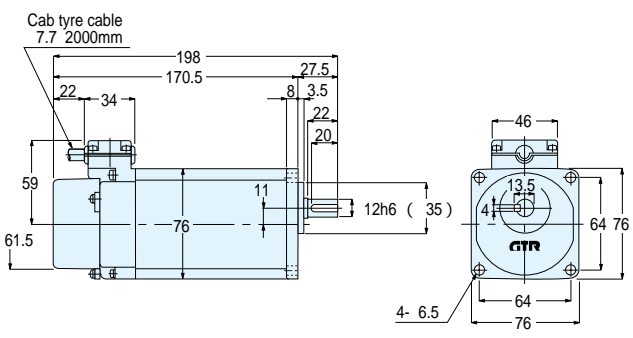


[ Round Weight 2 kg ]

CAD Data: GLV-12-T15

### Flange Mount Type Gearmotor with Brake

**Fig.A-241** GFV-12-5 ~ 240-T15



[ Round Weight 2 kg ]

CAD Data: GFV-12-T15

Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# GTR Mini Series Water-Resistant Gearmotor

## Water-Resistant Gearmotor with Brake

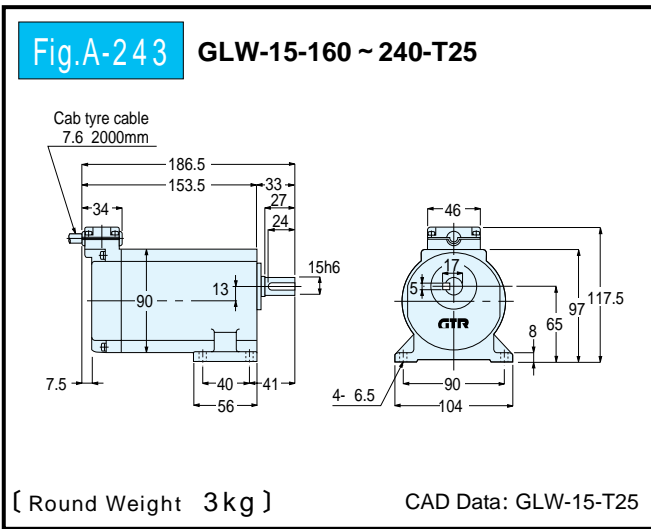
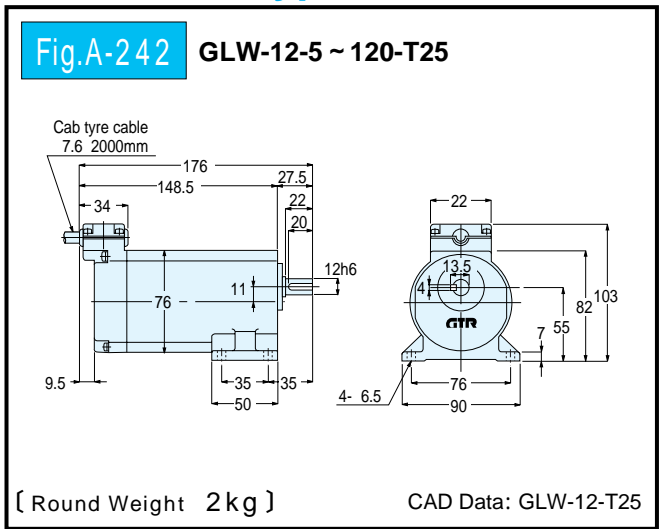
### G-Type[Parallel Shaft] 3-Phase 25W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	T25	200/200/220	50/60/60	12	0.21/0.19/0.19	1350/1550/1600	E	Totally Enclosed
					15	0.18/0.17/0.17	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
			GLW	GFV	GLV	GFV						
3-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A86 Fig.A-242 2kg	P.A87 Fig.A-244 2kg	P.A87 Fig.A-246 2kg	P.A87 Fig.A-248 2kg
		1/ 7.5	200	240	0.78	0.08	196	20				
		1/ 10	150	180	1.08	0.11	245	25				
		1/ 15	100	120	1.67	0.17	343	35				
		1/ 20	75	90	2.25	0.23	441	45				
		1/ 25	60	72	2.74	0.28	490	50				
		1/ 30	50	60	3.33	0.34	539	55				
		1/ 40	37.5	45	4.41	0.45	588	60				
		1/ 50	30	36	5.49	0.56	637	65				
		1/ 60	25	30	6.66	0.68	686	70				
	15	1/100	15	18	10.8	1.1	735	75	P.A86 Fig.A-243 3kg	P.A87 Fig.A-245 3kg	P.A87 Fig.A-247 3kg	P.A87 Fig.A-249 3kg
		1/120	12.5	15	12.7	1.3	784	80				
		1/160	9.4	11.2	16.7	1.7	1080	110				
		1/200	7.5	9	20.6	2.1	1080	110				
		1/240	6.3	7.5	25.5	2.6	1080	110				

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A83.

## Foot Mount Type Gearmotor



- Model Code  
P.A80
- Cab tyre cable  
Position Mark  
P.E54
- Option  
P.E110



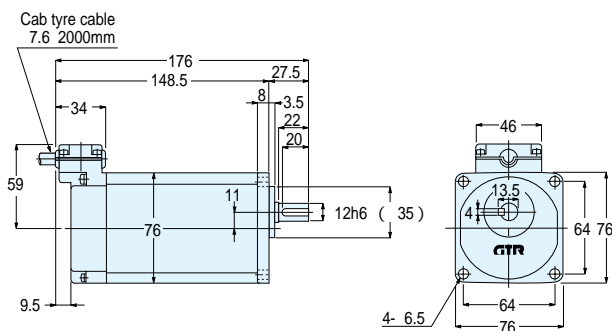
Foot Mount type



Flange Mount type

## Flange Mount Type Gearmotor

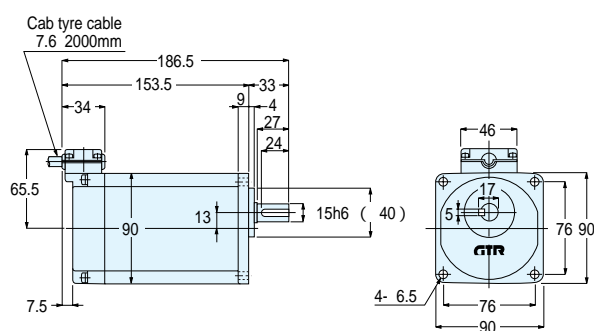
**Fig.A-244** GFW-12-5 ~ 120-T25



[ Round Weight 2 kg ]

CAD Data: GFW-12-T25

**Fig.A-245** GFW-15-160 ~ 240-T25

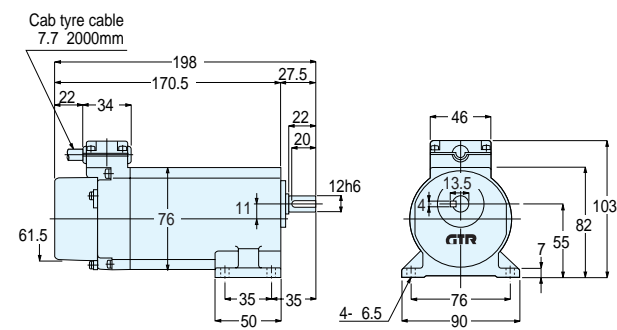


[ Round Weight 3 kg ]

CAD Data: GFW-15-T25

## Foot Mount Type Gearmotor with Brake

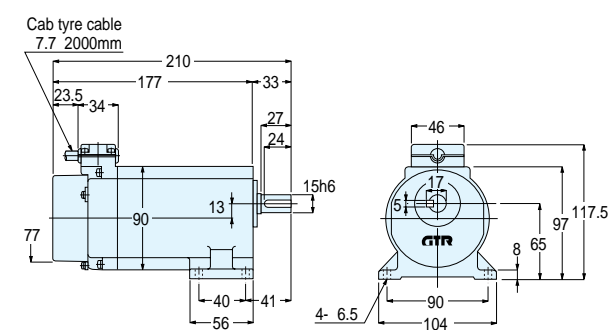
**Fig.A-246** GLV-12-5 ~ 120-T25



[ Round Weight 2 kg ]

CAD Data: GLV-12-T25

**Fig.A-247** GLV-15-160 ~ 240-T25

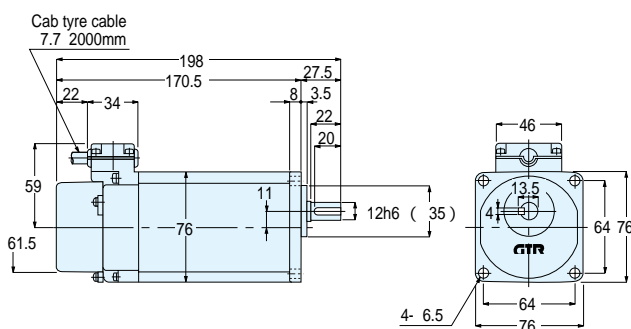


[ Round Weight 3 kg ]

CAD Data: GLV-15-T25

## Flange Mount Type Gearmotor with Brake

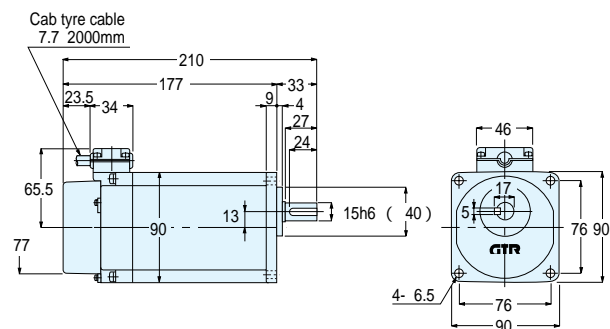
**Fig.A-248** GFV-12-5 ~ 120-T25



[ Round Weight 2 kg ]

CAD Data: GFV-12-T25

**Fig.A-249** GFV-15-160 ~ 240-T25



[ Round Weight 3 kg ]

CAD Data: GFV-15-T25

**Note** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

**GTR Mini Series**

# Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake

## G-Type[ Parallel Shaft ] 3-Phase 40W

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	T40	200/200/220	50/60/60	12	0.29/0.27/0.27	1350/1550/1600	E	Totally Enclosed non-ventilated
					15	0.27/0.26/0.26	1350/1550/1550		
					18	0.21/0.21/0.21	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N•m	kgf•m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
3-phase 40W	12	1/ 5	300	360	0.88	0.09	98	10	P.A89 Fig.A-250 2kg	P.A89 Fig.A-253 2kg	P.A90 Fig.A-256 2kg	P.A90 Fig.A-259 2kg
		1/ 7.5	200	240	1.37	0.14	196	20				
		1/ 10	150	180	1.76	0.18	245	25				
		1/ 15	100	120	2.65	0.27	343	35				
		1/ 20	75	90	3.53	0.36	441	45				
		1/ 25	60	72	4.41	0.45	490	50				
		1/ 30	50	60	5.29	0.54	539	55				
		1/ 40	37.5	45	7.06	0.72	588	60				
		1/ 50	30	36	8.82	0.90	637	65				
	1/ 60	25	30	10.8	1.1	686	70					
	15	1/ 80	18.8	22.5	13.7	1.4	980	100	P.A89 Fig.A-251 3kg	P.A89 Fig.A-254 3kg	P.A90 Fig.A-257 3kg	P.A90 Fig.A-260 3kg
		1/100	15	18	16.7	1.7	980	100				
		1/120	12.5	15	20.6	2.1	1080	110				
	18	1/160	9.4	11.2	26.5	2.7	1370	140	P.A89 Fig.A-252 4kg	P.A89 Fig.A-255 4kg	P.A90 Fig.A-258 4kg	P.A90 Fig.A-261 4kg
		1/200	7.5	9	33.3	3.4	1370	140				
1/240		6.3	7.5	40.2	4.1	1370	140					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A83.

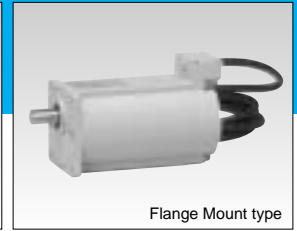
<b>Model Code</b> P.A80	<b>Cab tyre cable Position Mark</b> P.E54	<b>Option</b> P.E110
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# Water-Resistant Gearmotor



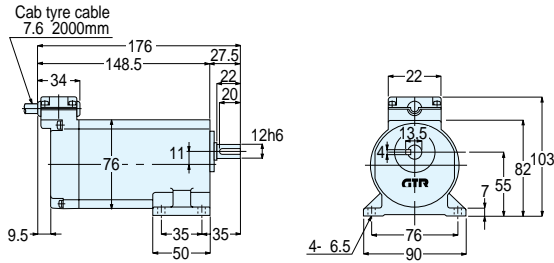
Foot Mount type



Flange Mount type

## Foot Mount Type Gearmotor

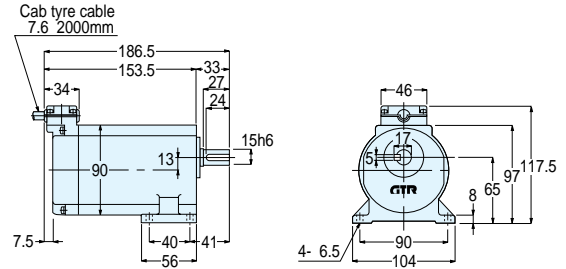
**Fig.A-250** GLW-12-5 ~ 60-T40



[ Round Weight 2 kg ]

CAD Data: GLW-12-T40

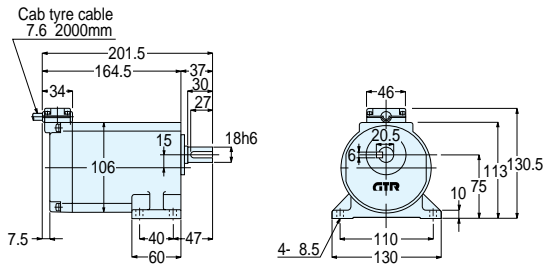
**Fig.A-251** GLW-15-80 ~ 120-T40



[ Round Weight 3 kg ]

CAD Data: GLW-15-T40

**Fig.A-252** GLW-18-160 ~ 240-T40

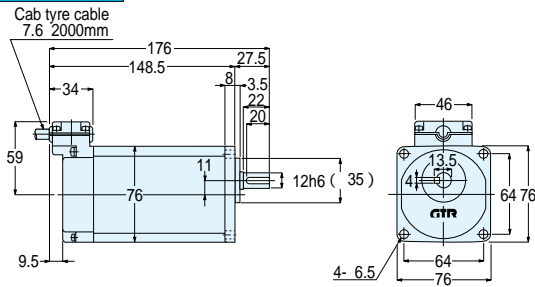


[ Round Weight 4 kg ]

CAD Data: GLW-18-T40

## Flange Mount Type Gearmotor

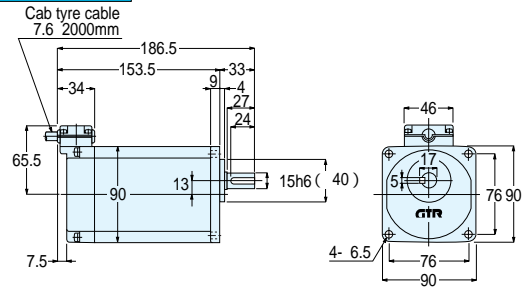
**Fig.A-253** GFW-12-5 ~ 60-T40



[ Round Weight 2 kg ]

CAD Data: GFW-12-T40

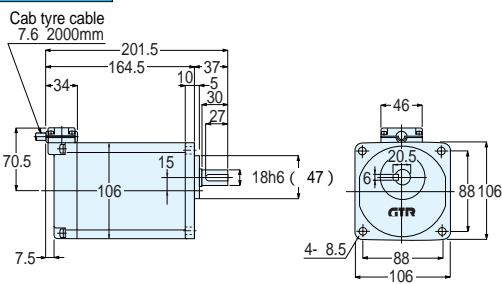
**Fig.A-254** GFW-15-80 ~ 120-T40



[ Round Weight 3 kg ]

CAD Data: GFW-15-T40

**Fig.A-255** GFW-18-160 ~ 240-T40



[ Round Weight 4 kg ]

CAD Data: GFW-18-T40

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor

Speed Control Gearmotor

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

- Standard Motors
- Cautions for Safety
- Option

## GTR Mini Series

# Water-Resistant Gearmotor with Brake

## G-Type [ Parallel Shaft ] 3-Phase 40W

### Foot Mount Type Gearmotor with Brake

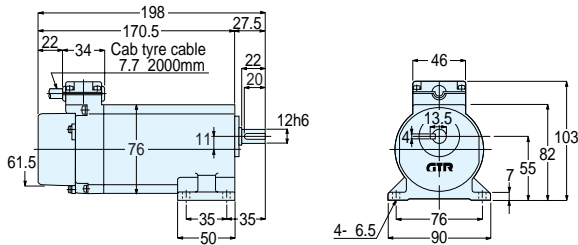


Foot Mount type



Flange Mount type

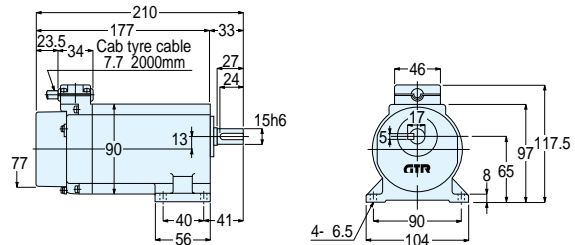
**Fig.A-256** GLV-12-5 ~ 60-T40



[ Round Weight 2 kg ]

CAD Data: GLV-12-T40

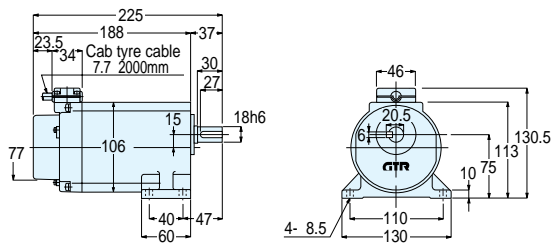
**Fig.A-257** GLV-15-80 ~ 120-T40



[ Round Weight 3 kg ]

CAD Data: GLV-15-T40

**Fig.A-258** GLV-18-160 ~ 240-T40

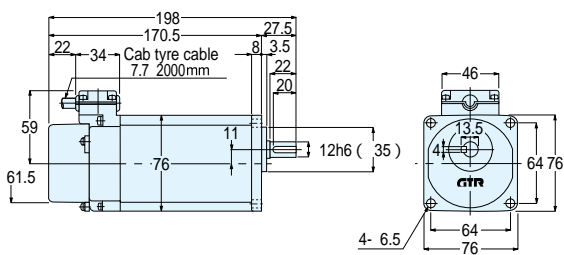


[ Round Weight 4 kg ]

CAD Data: GLV-18-T40

### Flange Mount Type Gearmotor with Brake

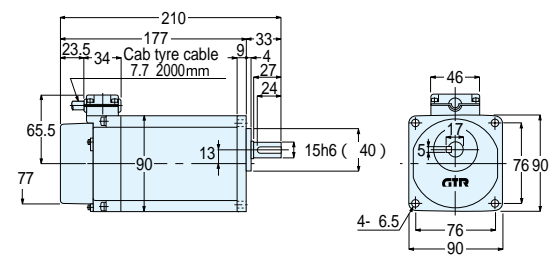
**Fig.A-259** GFV-12-5 ~ 60-T40



[ Round Weight 2 kg ]

CAD Data: GFV-12-T40

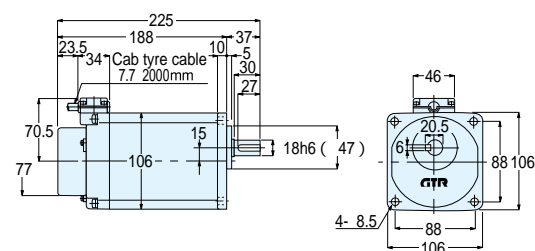
**Fig.A-260** GFV-15-80 ~ 120-T40



[ Round Weight 3 kg ]

CAD Data: GFV-15-T40

**Fig.A-261** GFV-18-160 ~ 240-T40



[ Round Weight 4 kg ]

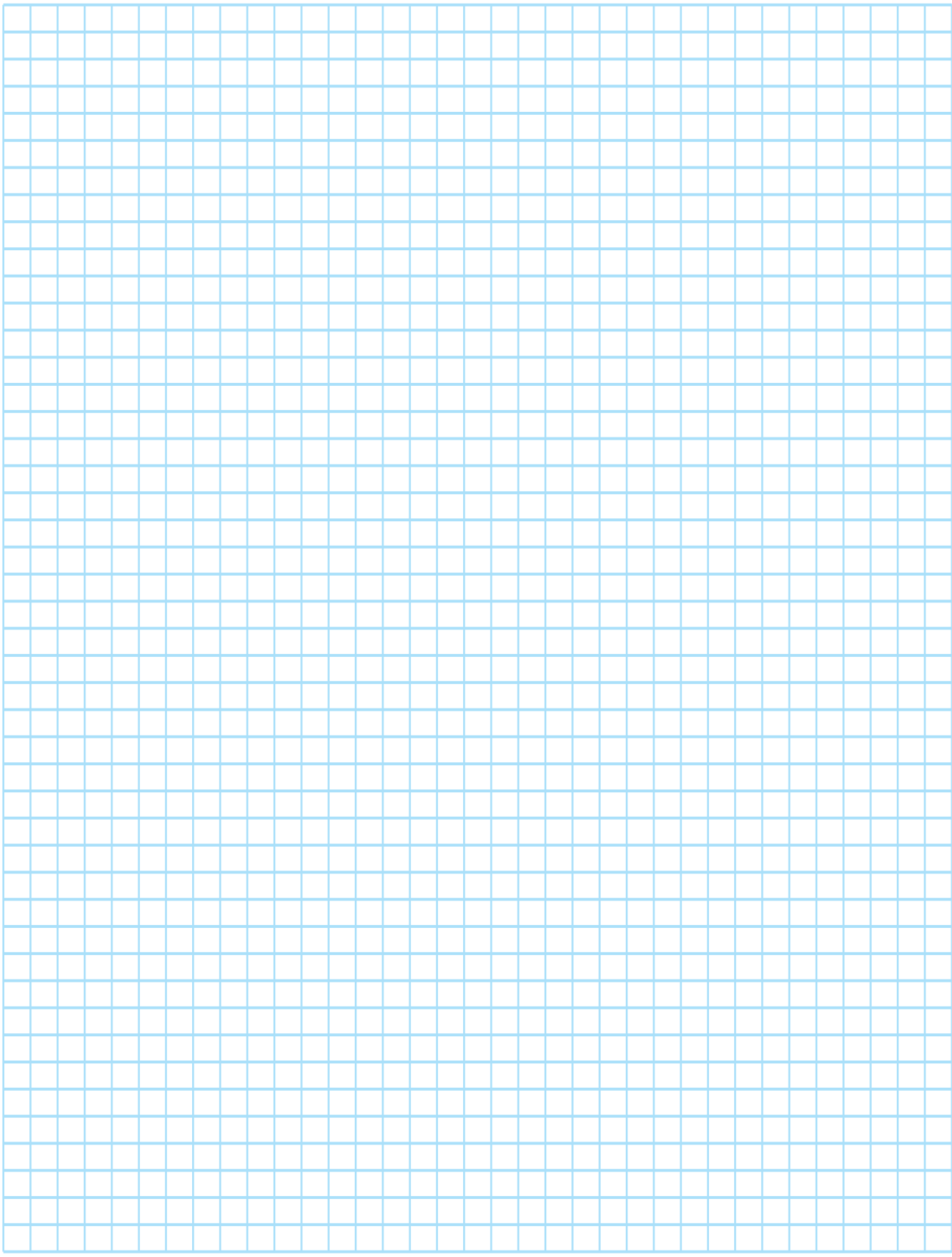
CAD Data: GFV-18-T40

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code  
P.A80

Cab tyre cable  
Position Mark  
P.E54

Option  
P.E110



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# GTR Mini Series Water-Resistant Gearmotor

## Water-Resistant Gearmotor with Brake

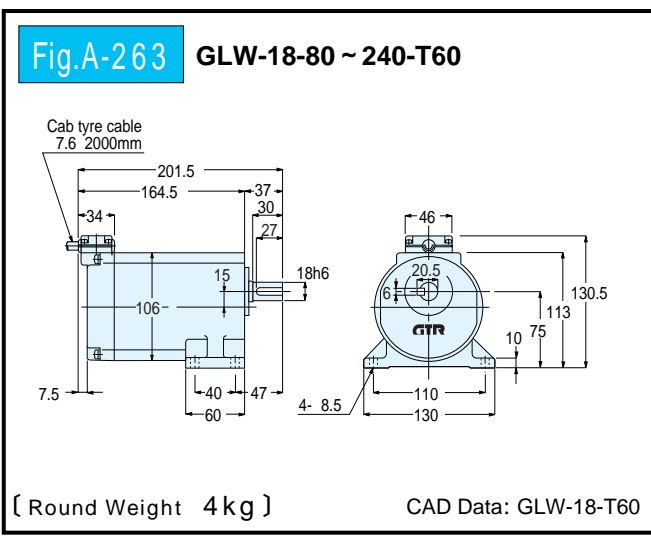
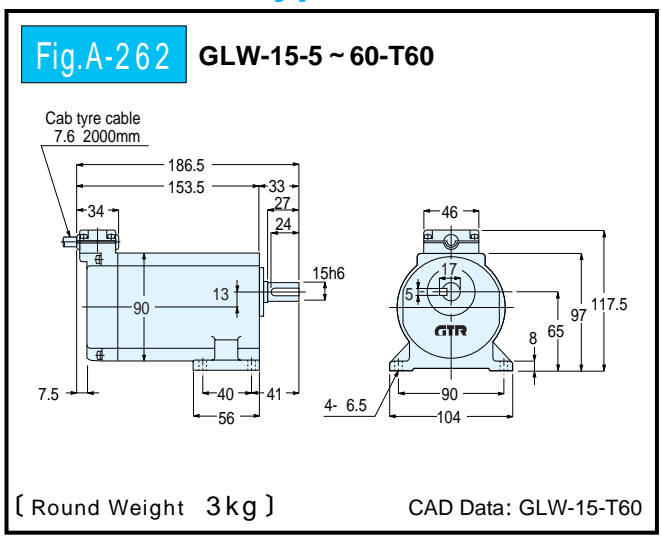
### G-Type[Parallel Shaft] 3-Phase 60W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	T60	200/200/220	50/60/60	15	0.40/0.36/0.36	1350/1550/1600	E	Totally Enclosed
					18	0.33/0.33/0.33	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
			GLW	GFV	GLV	GFV						
3-phase 60W	15	1/ 5	300	360	1.37	0.14	98	10	P.A92 Fig.A-262 3kg	P.A93 Fig.A-264 3kg	P.A93 Fig.A-266 3kg	P.A93 Fig.A-268 3kg
		1/ 7.5	200	240	2.06	0.21	196	20				
		1/ 10	150	180	2.74	0.28	245	25				
		1/ 15	100	120	4.12	0.42	343	35				
		1/ 20	75	90	5.49	0.56	441	45				
		1/ 25	60	72	6.96	0.71	490	50				
		1/ 30	50	60	8.33	0.85	539	55				
		1/ 40	37.5	45	10.8	1.1	784	80				
	18	1/ 50	30	36	13.7	1.4	882	90	P.A92 Fig.A-263 4kg	P.A93 Fig.A-265 4kg	P.A93 Fig.A-267 4kg	P.A93 Fig.A-269 4kg
		1/ 60	25	30	16.7	1.7	882	90				
		1/ 80	18.8	22.5	20.6	2.1	1270	130				
		1/100	15	18	26.5	2.7	1270	130				
		1/120	12.5	15	31.4	3.2	1370	140				
		1/160	9.4	11.2	42.1	4.3	1370	140				
*1/240	6.3	7.5	53.9	5.5	1370	140						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A83.

### Foot Mount Type Gearmotor



- Model Code  
P.A80
- Cab tyre cable  
Position Mark  
P.E54
- Option  
P.E110



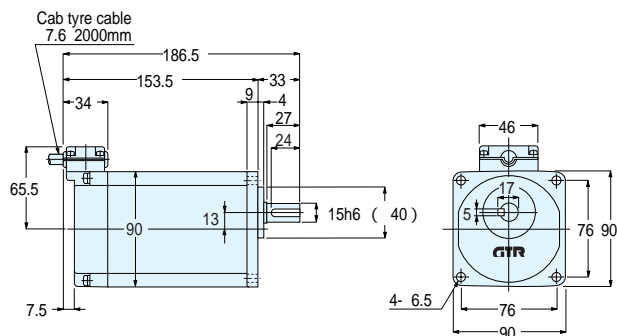
Foot Mount type



Flange Mount type

## Flange Mount Type Gearmotor

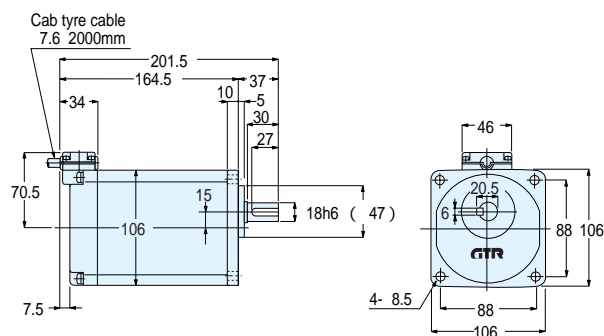
**Fig.A-264** GFW-15-5 ~ 60-T60



[ Round Weight 3 kg ]

CAD Data: GFW-15-T60

**Fig.A-265** GFW-18-80 ~ 240-T60

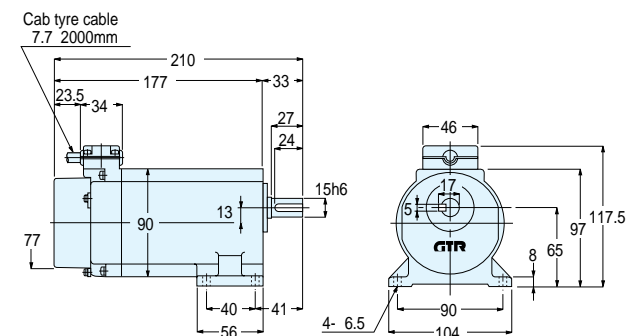


[ Round Weight 4 kg ]

CAD Data: GFW-18-T60

## Foot Mount Type Gearmotor with Brake

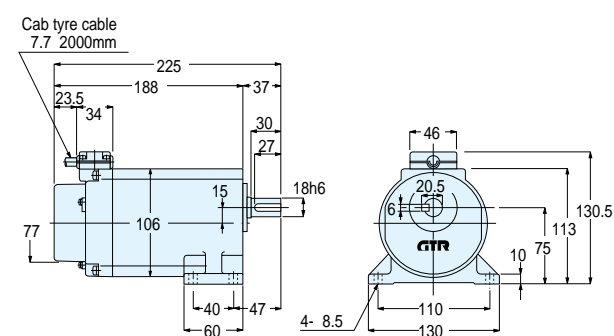
**Fig.A-266** GLV-15-5 ~ 60-T60



[ Round Weight 3 kg ]

CAD Data: GLV-15-T60

**Fig.A-267** GLV-18-80 ~ 240-T60

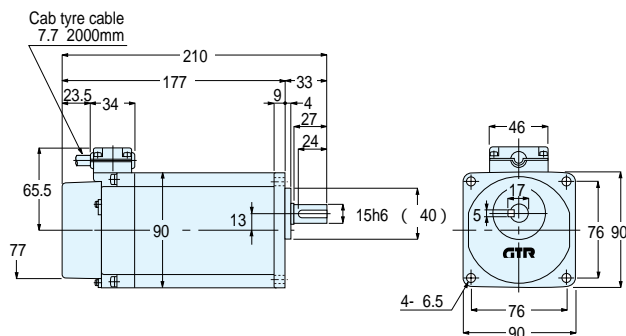


[ Round Weight 4 kg ]

CAD Data: GLV-18-T60

## Flange Mount Type Gearmotor with Brake

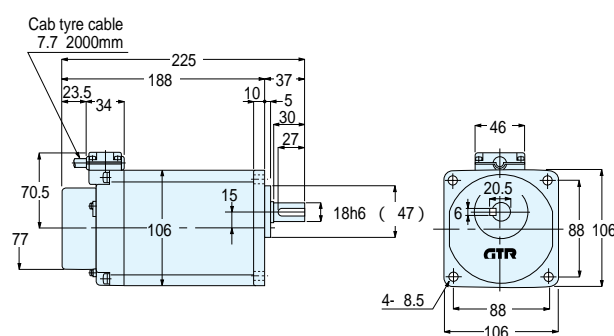
**Fig.A-268** GFV-15-5 ~ 60-T60



[ Round Weight 3 kg ]

CAD Data: GFV-15-T60

**Fig.A-269** GFV-18-80 ~ 240-T60



[ Round Weight 4 kg ]

CAD Data: GFV-18-T60

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# GTR Mini Series Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake G-Type[ Parallel Shaft ] 3-Phase 90W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	T90	200/200/220	50/60/60	18	0.47/0.47/0.47	1350/1550/1600	E	Totally Enclosed

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
3-phase 90W	18	1/ 5	300	360	2.06	0.21	147	15	P.A95 Fig.A-270 4kg	P.A95 Fig.A-271 4kg	P.A95 Fig.A-272 4kg	P.A95 Fig.A-273 4kg
		1/ 7.5	200	240	3.14	0.32	245	25				
		1/ 10	150	180	4.12	0.42	343	35				
		1/ 15	100	120	6.17	0.63	441	45				
		1/ 20	75	90	8.33	0.85	539	55				
		1/ 25	60	72	10.8	1.1	588	60				
		1/ 30	50	60	12.7	1.3	686	70				
		1/ 40	37.5	45	16.7	1.7	1080	110				
		1/ 50	30	36	20.6	2.1	1180	120				
		1/ 60	25	30	24.5	2.5	1180	120				
		1/ 80	18.8	22.5	31.4	3.2	1270	130				
		1/100	15	18	39.2	4.0	1270	130				
		1/120	12.5	15	47.0	4.8	1370	140				
		* 1/160	9.4	11.2	53.9	5.5	1370	140				
* 1/200	7.5	9	53.9	5.5	1370	140						
* 1/240	6.3	7.5	53.9	5.5	1370	140						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A83.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

Model Code P.A80	Cab tyre cable Position Mark P.E54	Option P.E110
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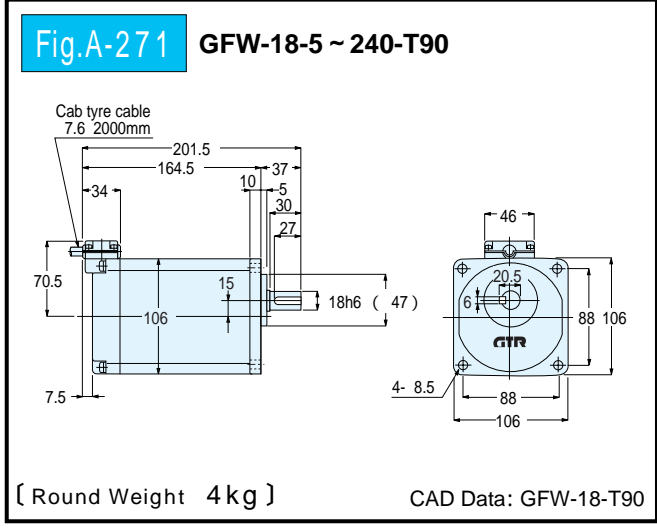
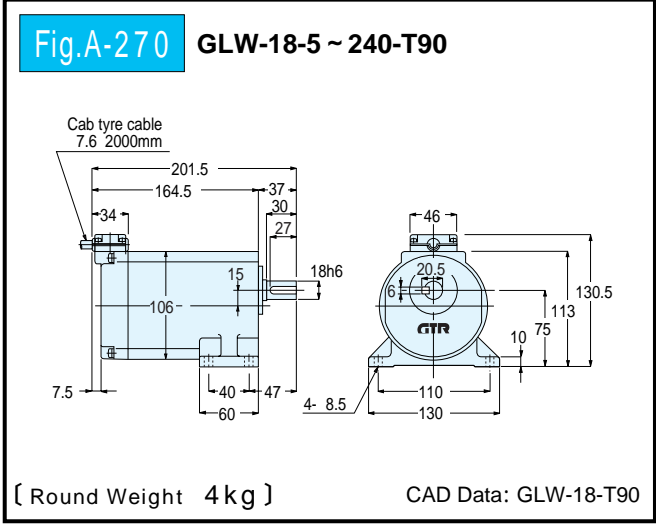
Foot Mount type



Flange Mount type

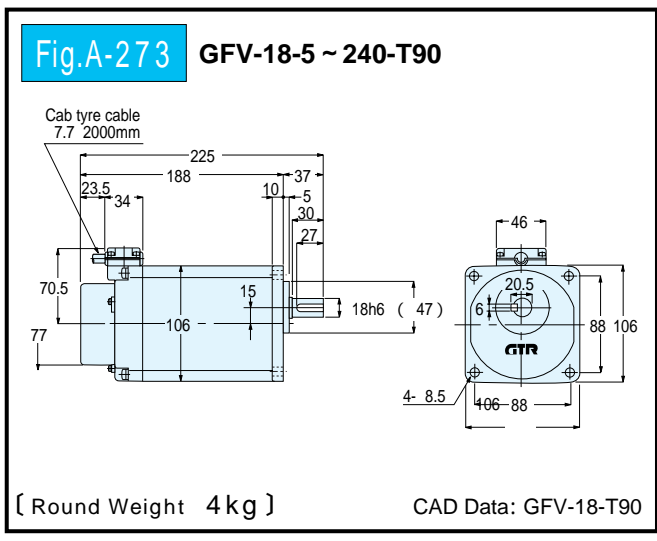
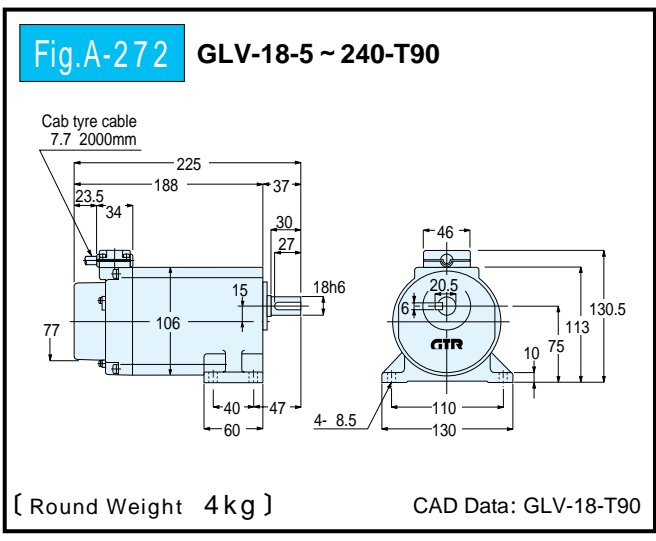
### Foot Mount Type Gearmotor

### Flange Mount Type Gearmotor



### Foot Mount Type Gearmotor with Brake

### Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option







## Parallel Shaft IP-65

# Water-Resistant Gearmotor with Brake

## Performance Table Dimension diagram


# G Type

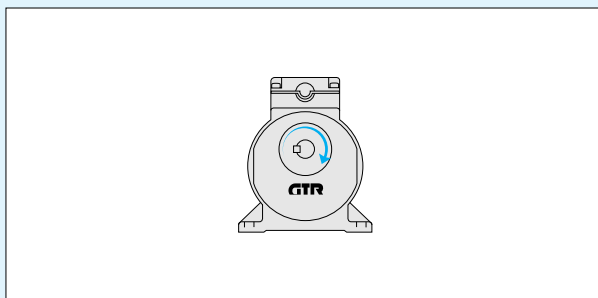
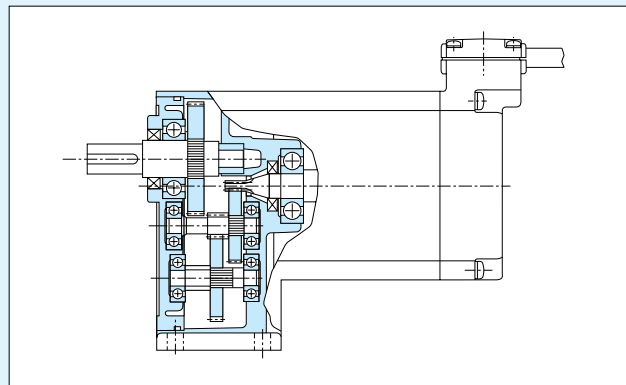
Parallel Shaft

### 1-Phase

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired according to the diagram shown on page E44, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake G-Type[ Parallel Shaft ] 1-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	S15	100/100	50/60	12	0.39/0.35	1350/1650	5	E	Totally Enclosed

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
1-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A99 Fig.A-274 2kg	P.A99 Fig.A-275 2kg	P.A99 Fig.A-276 2kg	P.A99 Fig.A-277 2kg
		1/ 7.5	200	240	0.49	0.05	196	20				
		1/ 10	150	180	0.69	0.07	245	25				
		1/ 15	100	120	0.98	0.10	343	35				
		1/ 20	75	90	1.27	0.13	441	45				
		1/ 25	60	72	1.67	0.17	490	50				
		1/ 30	50	60	1.96	0.20	539	55				
		1/ 40	37.5	45	2.65	0.27	588	60				
		1/ 50	30	36	3.33	0.34	637	65				
		1/ 60	25	30	3.92	0.40	686	70				
		1/ 80	18.8	22.5	5.00	0.51	735	75				
		1/100	15	18	6.27	0.64	735	75				
		1/120	12.5	15	7.45	0.76	784	80				
		1/160	9.4	11.2	9.80	1.0	784	80				
1/200	7.5	9	12.7	1.3	784	80						
1/240	6.3	7.5	14.7	1.5	784	80						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A97.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

<b>Model Code</b> P.A80	<b>Cab tyre cable Position Mark</b> P.E54	<b>Option</b> P.E110
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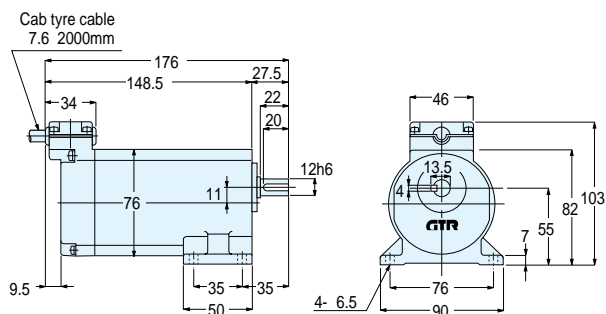
Foot Mount type



Flange Mount type

## Foot Mount Type Gearmotor

**Fig.A-274** GLW-12-5 ~ 240-S15

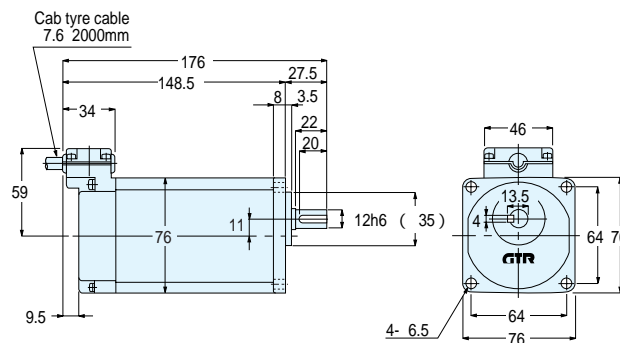


[ Round Weight 2 kg ]

CAD Data: GLW-12-S15

## Flange Mount Type Gearmotor

**Fig.A-275** GFW-12-5 ~ 240-S15

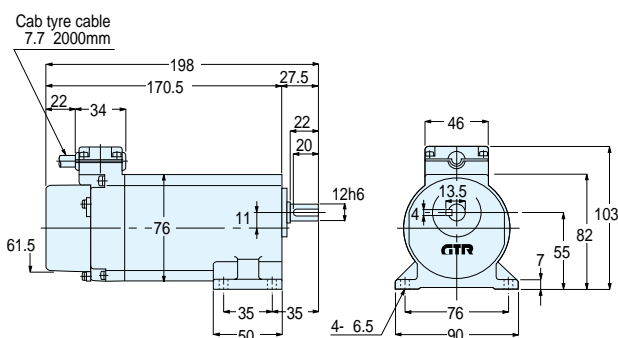


[ Round Weight 2 kg ]

CAD Data: GFW-12-S15

## Foot Mount Type Gearmotor with Brake

**Fig.A-276** GLV-12-5 ~ 240-S15

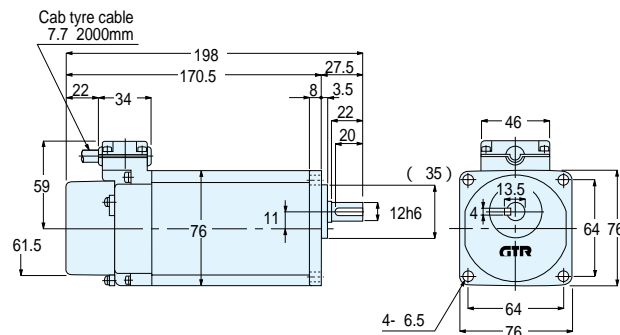


[ Round Weight 2 kg ]

CAD Data: GLV-12-S15

## Flange Mount Type Gearmotor with Brake

**Fig.A-277** GFV-12-5 ~ 240-S15



[ Round Weight 2 kg ]

CAD Data: GFV-12-S15

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

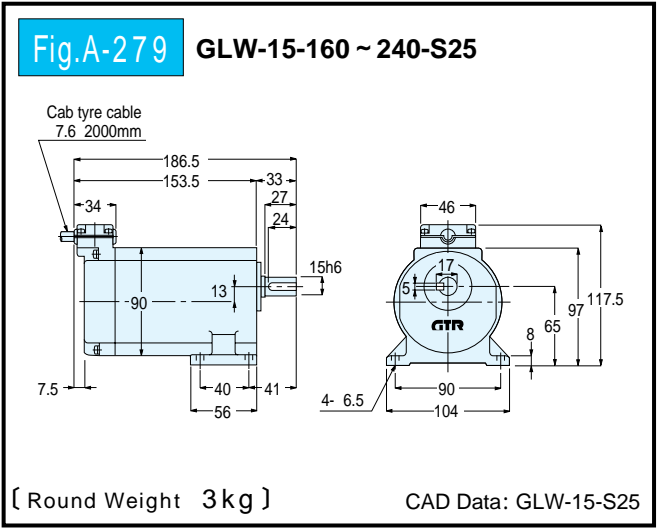
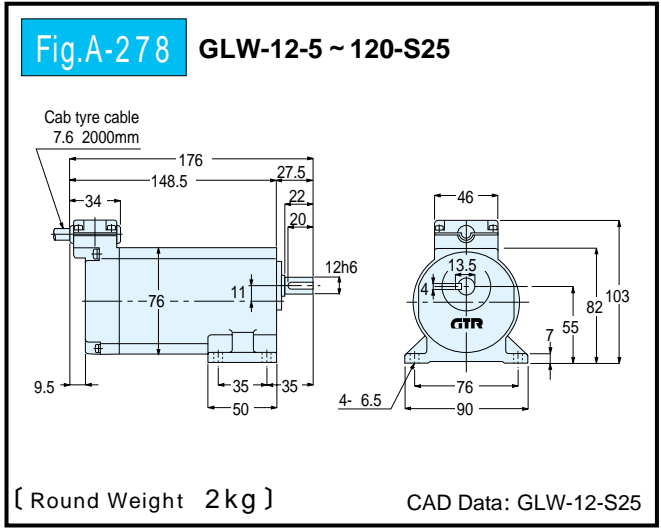
# GTR Mini Series Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake G-Type [ Parallel Shaft ] 1-Phase 25W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	S25	100/100	50/60	12	0.48/0.48	1350/1600	7	E	Totally Enclosed
					15	0.44/0.45	1350/1650	7		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L.		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
1-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A100 Fig.A-278 2kg	P.A101 Fig.A-280 2kg	P.A101 Fig.A-282 2kg	P.A101 Fig.A-284 2kg
		1/ 7.5	200	240	0.78	0.08	196	20				
		1/ 10	150	180	1.08	0.11	245	25				
		1/ 15	100	120	1.67	0.17	343	35				
		1/ 20	75	90	2.25	0.23	441	45				
		1/ 25	60	72	2.74	0.28	490	50				
		1/ 30	50	60	3.33	0.34	539	55				
		1/ 40	37.5	45	4.41	0.45	588	60				
		1/ 50	30	36	5.49	0.56	637	65				
		1/ 60	25	30	6.66	0.68	686	70				
	1/ 80	18.8	22.5	8.43	0.86	735	75					
		1/100	15	18	10.8	1.1	735	75				
	1/120	12.5	15	12.7	1.3	784	80					
	15	1/160	9.4	11.2	16.7	1.7	1080	110	P.A100 Fig.A-279 3kg	P.A101 Fig.A-281 3kg	P.A101 Fig.A-283 3kg	P.A101 Fig.A-285 3kg
		1/200	7.5	9	20.6	2.1	1080	110				
		1/240	6.3	7.5	25.5	2.6	1080	110				

Note) The allowable O.H.L. indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A97.

## Foot Mount Type Gearmotor



Model Code  
P.A80
Cab tyre cable  
Position Mark  
P.E54
Option  
P.E110



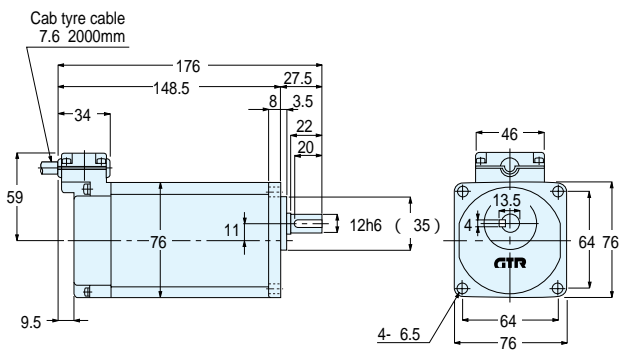
Foot Mount type



Flange Mount type

## Flange Mount Type Gearmotor

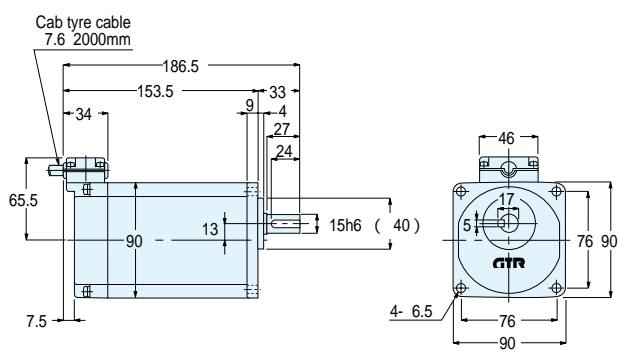
**Fig.A-280** GFW-12-5 ~ 120-S25



[ Round Weight 2 kg ]

CAD Data: GFW-12-S25

**Fig.A-281** GFW-15-160 ~ 240-S25

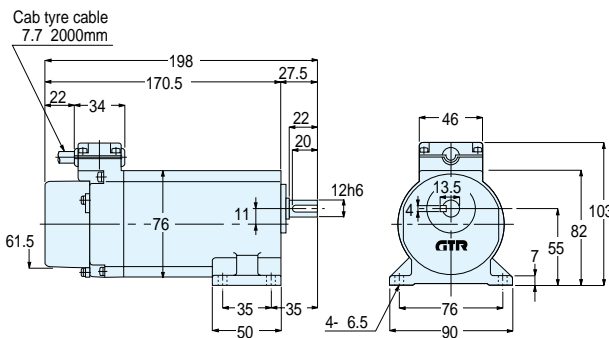


[ Round Weight 3 kg ]

CAD Data: GFW-15-S25

## Foot Mount Type Gearmotor with Brake

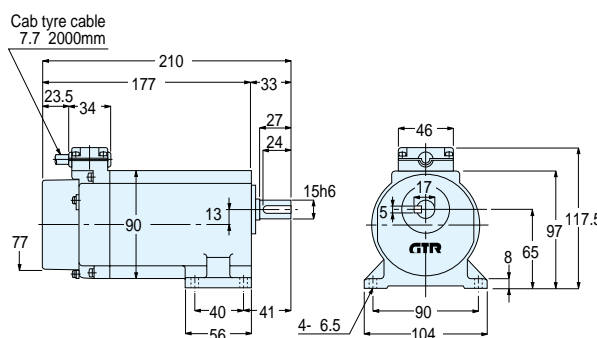
**Fig.A-282** GLV-12-5 ~ 120-S25



[ Round Weight 2 kg ]

CAD Data: GLV-12-S25

**Fig.A-283** GLV-15-160 ~ 240-S25

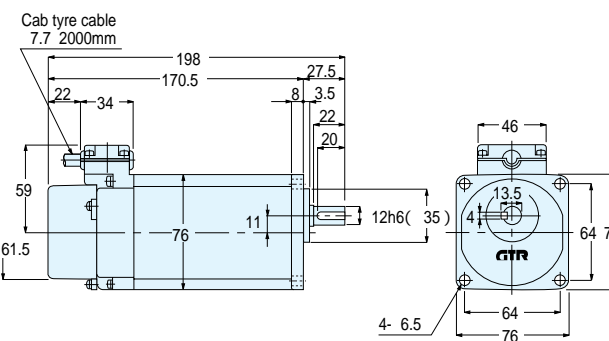


[ Round Weight 3 kg ]

CAD Data: GLV-15-S25

## Flange Mount Type Gearmotor with Brake

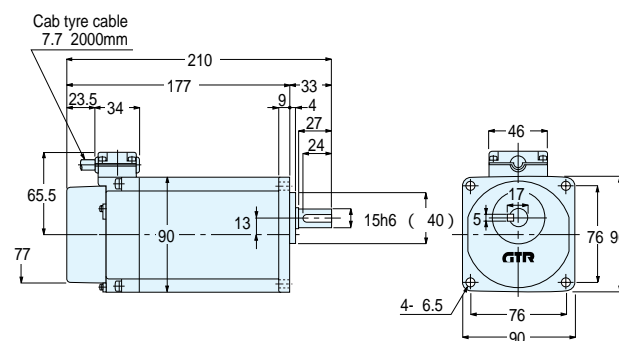
**Fig.A-284** GFV-12-5 ~ 120-S25



[ Round Weight 2 kg ]

CAD Data: GFV-12-S25

**Fig.A-285** GFV-15-160 ~ 240-S25



[ Round Weight 3 kg ]

CAD Data: GFV-15-S25

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# GTR Mini Series Water-Resistant Gearmotor

## Water-Resistant Gearmotor with Brake

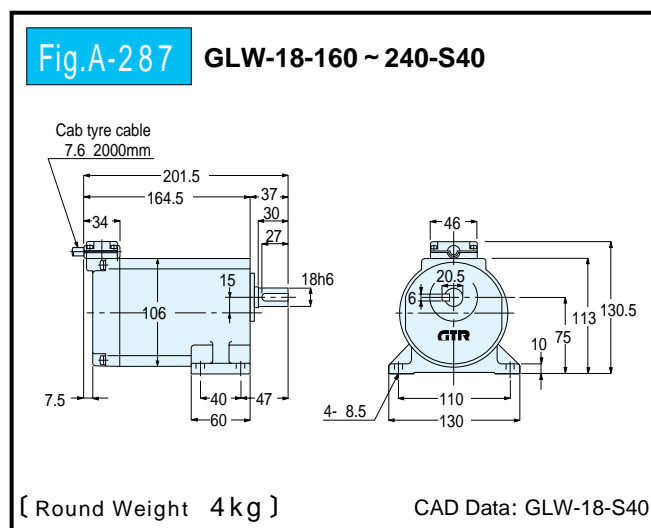
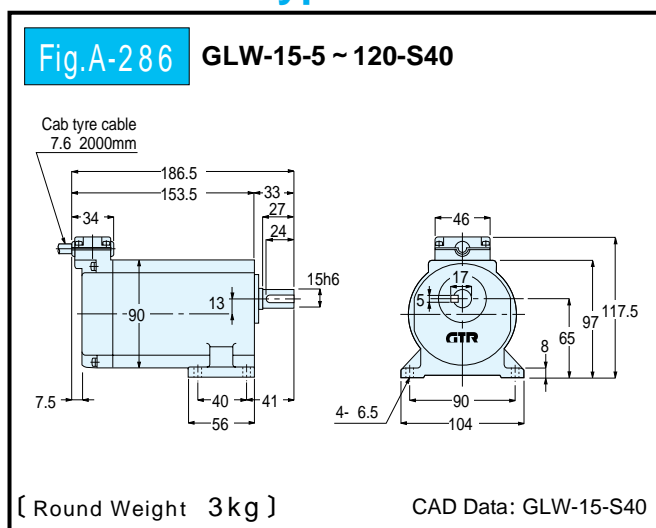
### G-Type[ Parallel Shaft ] 1-Phase 40W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	S40	100/100	50/60	15	0.61/0.66	1350/1650	10	E	Totally Enclosed
					18	0.63/0.64	1400/1650	10		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L.		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
1-phase 40W	15	1/ 5	300	360	0.88	0.09	98	10	P.A102 Fig.A-286 3kg	P.A103 Fig.A-288 3kg	P.A103 Fig.A-290 3kg	P.A103 Fig.A-292 3kg
		1/ 7.5	200	240	1.37	0.14	196	20				
		1/ 10	150	180	1.76	0.18	245	25				
		1/ 15	100	120	2.65	0.27	343	35				
		1/ 20	75	90	3.53	0.36	441	45				
		1/ 25	60	72	4.41	0.45	490	50				
		1/ 30	50	60	5.29	0.54	539	55				
		1/ 40	37.5	45	7.06	0.72	784	80				
		1/ 50	30	36	8.82	0.90	882	90				
		1/ 60	25	30	10.8	1.1	882	90				
	1/ 80	18.8	22.5	13.7	1.4	980	100					
	1/100	15	18	16.7	1.7	980	100					
	1/120	12.5	15	20.6	2.1	1080	110					
	18	1/160	9.4	11.2	26.5	2.7	1370	140	P.A102 Fig.A-287 4kg	P.A103 Fig.A-289 4kg	P.A103 Fig.A-291 4kg	P.A103 Fig.A-293 4kg
1/200		7.5	9	33.3	3.4	1370	140					
1/240		6.3	7.5	40.2	4.1	1370	140					

Note) The allowable O.H.L. indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A97.

## Foot Mount Type Gearmotor



- Model Code  
P.A80
- Cab tyre cable  
Position Mark  
P.E54
- Option  
P.E110



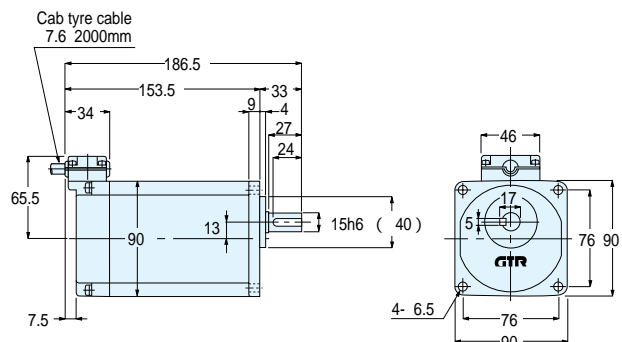
Foot Mount type



Flange Mount type

## Flange Mount Type Gearmotor

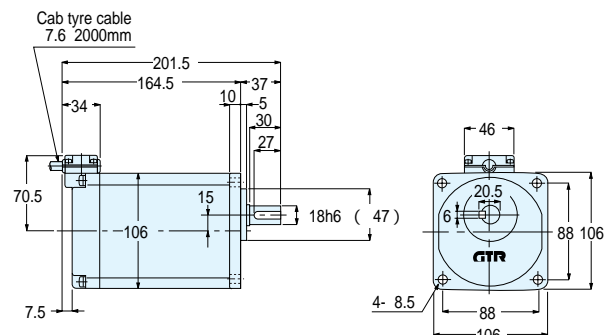
**Fig.A-288** GFW-15-5 ~ 120-S40



[ Round Weight 3 kg ]

CAD Data: GFW-15-S40

**Fig.A-289** GFW-18-160 ~ 240-S40

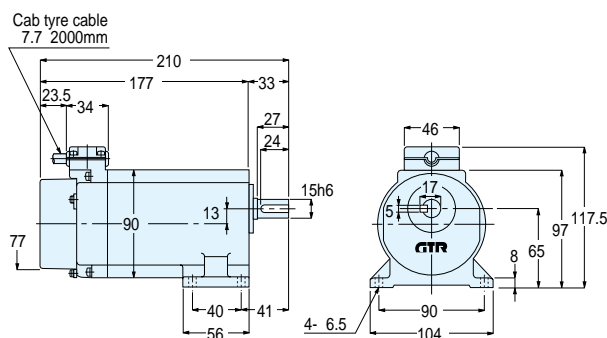


[ Round Weight 4 kg ]

CAD Data: GFW-18-S40

## Foot Mount Type Gearmotor with Brake

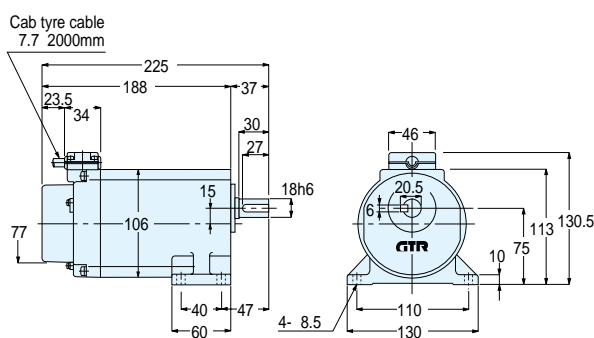
**Fig.A-290** GLV-15-5 ~ 120-S40



[ Round Weight 3 kg ]

CAD Data: GLV-15-S40

**Fig.A-291** GLV-18-160 ~ 240-S40

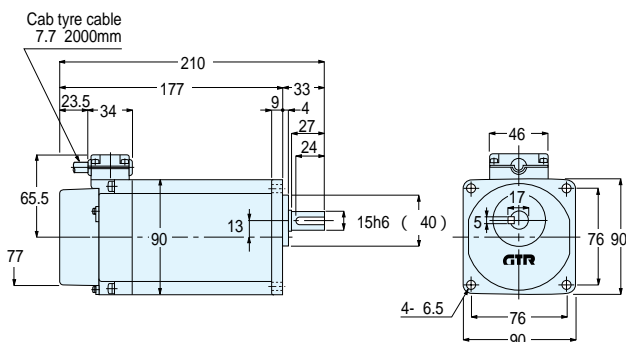


[ Round Weight 4 kg ]

CAD Data: GLV-18-S40

## Flange Mount Type Gearmotor with Brake

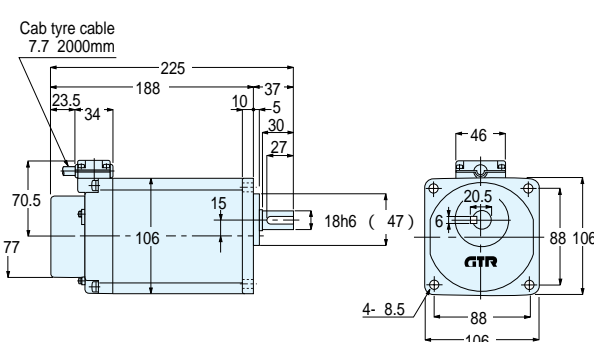
**Fig.A-292** GFV-15-5 ~ 120-S40



[ Round Weight 3 kg ]

CAD Data: GFV-15-S40

**Fig.A-293** GFV-18-160 ~ 240-S40



[ Round Weight 4 kg ]

CAD Data: GFV-18-S40

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option

# GTR Mini Series Water-Resistant Gearmotor Water-Resistant Gearmotor with Brake G-Type[ Parallel Shaft ] 1-Phase 60W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	S60	100/100	50/60	18	0.91/1.00	1400/1650	15	E	Totally Enclosed

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight			
			50Hz	60Hz	N·m	kgf·m	N	kgf	Gearmotor		Gearmotor with Brake	
									GLW	GFW	GLV	GFV
1-phase 60W	18	1/ 5	300	360	1.37	0.14	147	15	P.A105 Fig.A-294 4kg	P.A105 Fig.A-295 4kg	P.A105 Fig.A-296 4kg	P.A105 Fig.A-297 4kg
		1/ 7.5	200	240	2.06	0.21	245	25				
		1/ 10	150	180	2.74	0.28	343	35				
		1/ 15	100	120	4.12	0.42	441	45				
		1/ 20	75	90	5.49	0.56	539	55				
		1/ 25	60	72	6.96	0.71	588	60				
		1/ 30	50	60	8.33	0.85	686	70				
		1/ 40	37.5	45	10.8	1.1	1080	110				
		1/ 50	30	36	13.7	1.4	1180	120				
		1/ 60	25	30	16.7	1.7	1180	120				
		1/ 80	18.8	22.5	20.6	2.1	1270	130				
		1/100	15	18	26.5	2.7	1270	130				
		1/120	12.5	15	31.4	3.2	1370	140				
		1/160	9.4	11.2	42.1	4.3	1370	140				
1/200	7.5	9	52.9	5.4	1370	140						
* 1/240	6.3	7.5	53.9	5.5	1370	140						

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A97.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

Model Code P.A80	Cab tyre cable Position Mark P.E54	Option P.E110
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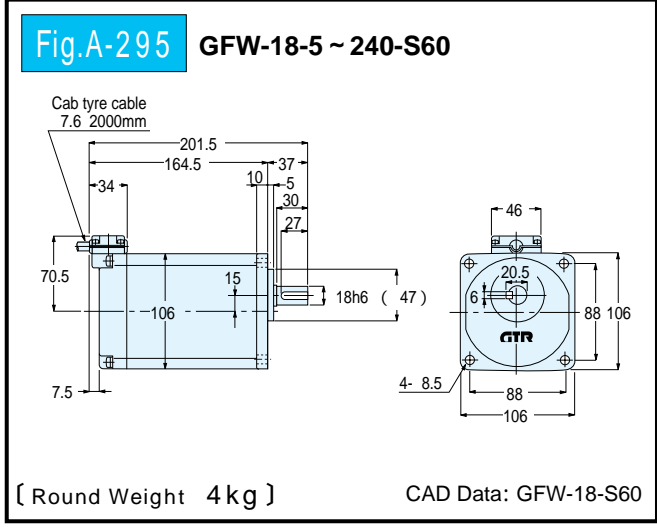
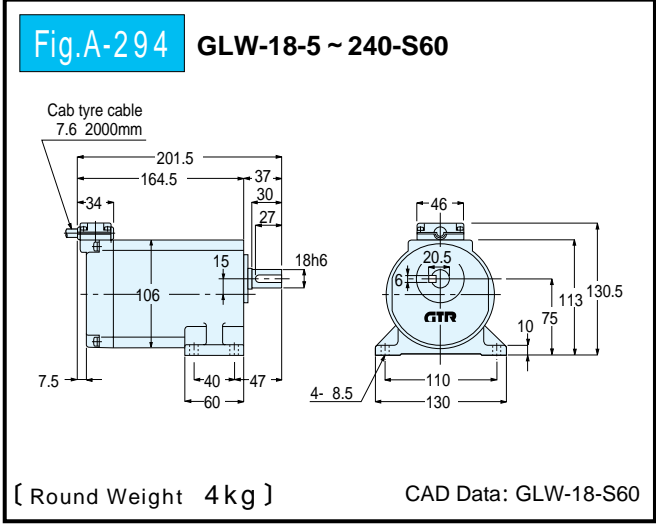
Foot Mount type



Flange Mount type

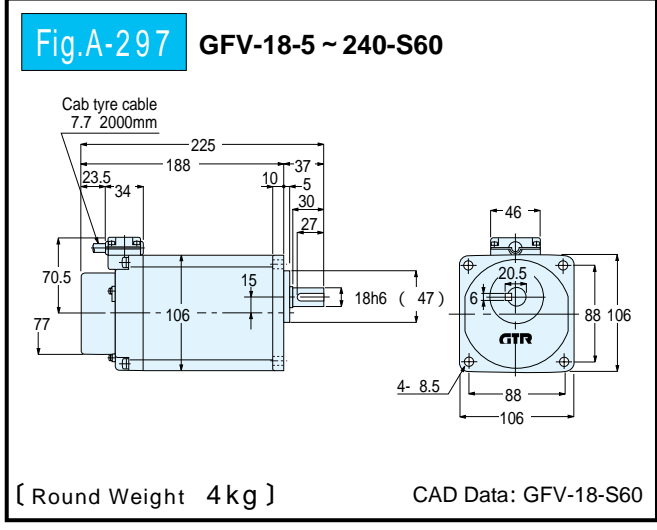
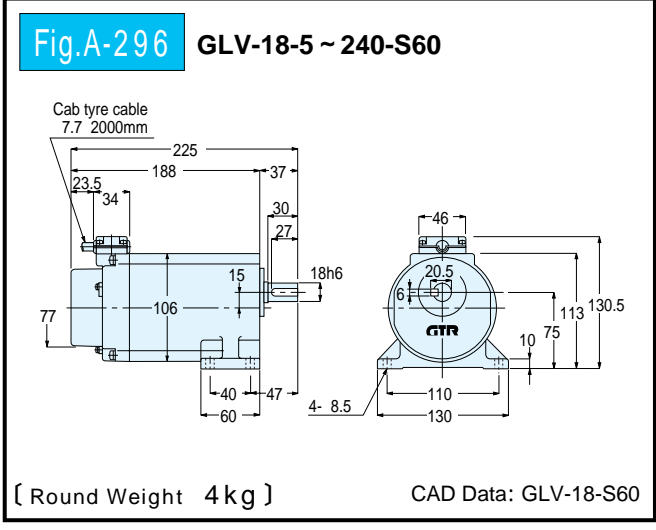
### Foot Mount Type Gearmotor

### Flange Mount Type Gearmotor



### Foot Mount Type Gearmotor with Brake

### Flange Mount Type Gearmotor with Brake



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft  
Gearmotor  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Gearmotor  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Gearmotor  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Gearmotor  
Performance  
Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

Option





## Parallel Shaft

# Speed Control Gearmotor

## Model and Type Designation Standard Model Lineup

# G

Type

Parallel Shaft

Motor Part	Number of phase	1-Phase
	Capacity	15W ~ 90W
	Power Source	100V 50/60Hz
	Insulation Classification	Class E
	Starting Method	Capacitor Start
	Protective cooling Method	Totally Enclosed (60 ~ 90W models are forced fan attached.)
	Number of Pole	4
	Rating	Continuous Rating
Speed Reduction Part	Reduction Method	Helical gear
	Lubrication	Grease Lubrication(Maintenance Free)
	Output Shaft	New JIS Key(JIS 1301-1976 class)
	Output Shaft Material	S43C
	Case Material	Aluminium die-cast
Ambient Conditions	Ambient Temperature	- 10 ~ 40
	Ambient Humidity	85%max.(without any dew condensation)
	Altitude	1,000m max.
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.
	Installation Location	Indoors
Painting	Painting Method	Anion painting, Acrylic paint
	Painting Color	Grey(Mansel code: 9B6/0.5)
Mounting Direction	No restriction in the mounting angle.(horizontally, vertically or heeling angle)	

# Model and Type Designation G-Type(Parallel Shaft)

G-Type Speed Control Gearmotor are classified by codes as shown below. Specify these codes in your inquiry and order.

Type	Frame Number	Reduction Ratio	Motor Capacity	Option	Auxiliary Mark	Spec. Designation
<b>G L U</b>	<b>12</b>	<b>50</b>	<b>S25</b>			
<b>G F P</b>	<b>40</b>	<b>1500</b>	<b>S90</b>	<b>W C</b>	<b>X</b>	<b>T6</b>

Series Name	G : G-Type( Parallel Shaft )
Classification by Mount Form	L : Foot Mount
	F : Flange Mount
	K : Small Flange Mount( Frame No.22 ~ 32 )
Classification by Motor Type	U : With Speed Control Gearmotor U-Type( With Controller )
	P : With Speed Control Gearmotor P-Type( Controller Sells Separately )
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 1800 : 1 / 1800
Motor Designation and Capacity	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S40 : 1-phase 40W
	S60 : 1-phase 60W
	S90 : 1-phase 90W
Option	Blank : Standard Specifications 1-phase : 100V / 50Hz, 100V / 60Hz
	W : High Voltage 1-phase : 200V / 50Hz, 200V / 60Hz
	C : P-Type Terminal Box
Auxiliary Mark	Blank : Standard Specs.
	X : Mark for Additional Specs.
Spec. Designation	Position indicator for lead-wire, terminal box Refer to the indication mark list in P. E54 for details.

**Note:** Spec. Designation does not appear on the product type designation in the nameplate. It is specified on the additional numbers in the nameplate.

Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch / Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

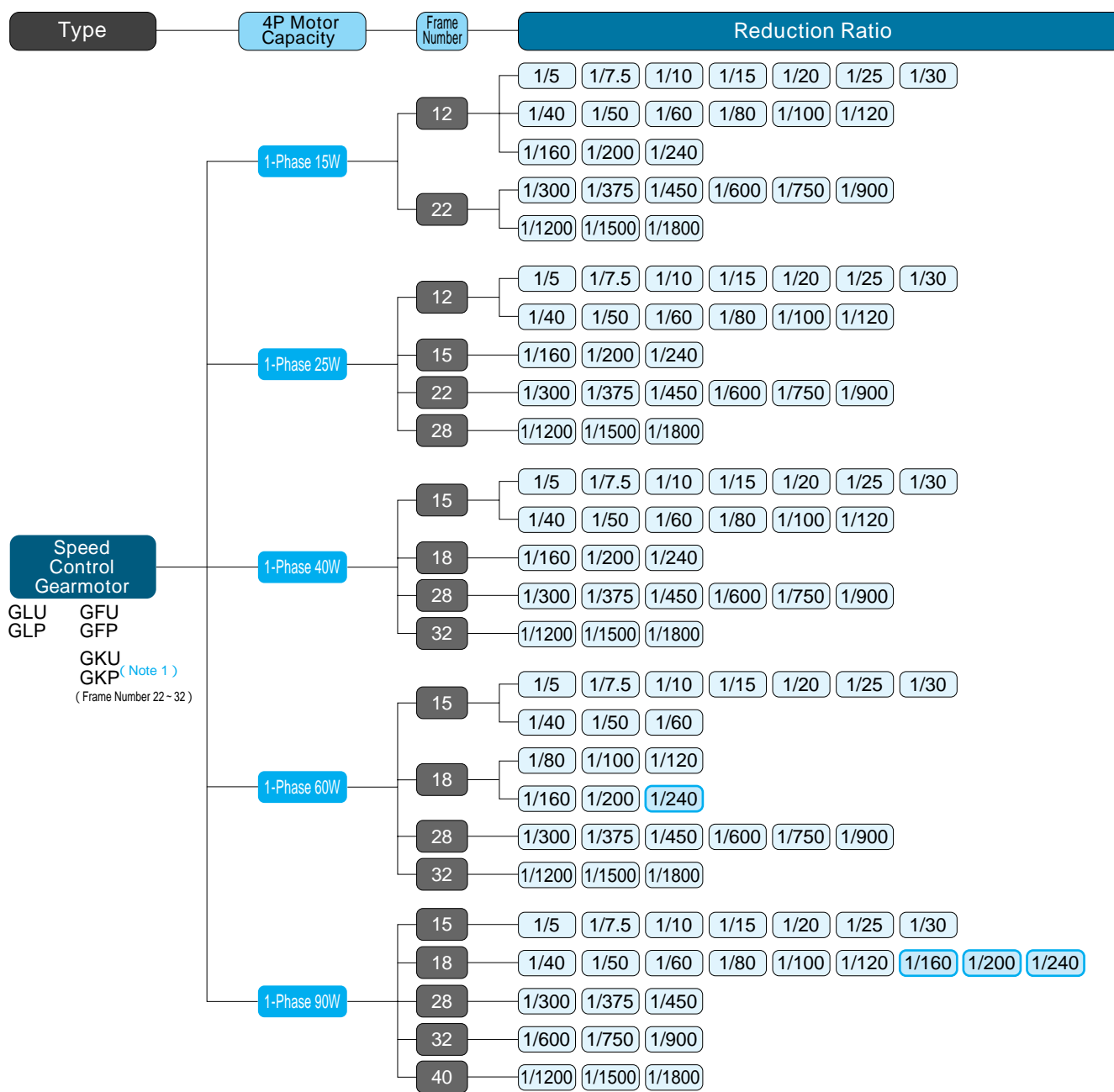
Cautions for Safety

Option

# Standard Model Lineup



Model and Type Designation



Parallel Shaft Performance Table/ Dimension  
Gearmotor with Brake  
Water-resistant Gearmotor with Brake  
Speed Control Gearmotor  
Gearmotor with Clutch /Brake  
GT-Type Gearmotor with Brake  
Right Angle Shaft Performance Table/ Dimension  
Gearmotor with Brake  
With Water-resistant Brake Motor  
Speed Control Gearmotor  
Concentric Hollow Shaft Performance Table/ Dimension  
Gearmotor with Brake  
With Water-resistant Brake Motor  
Speed Control Gearmotor  
Parallel Shaft GTR-L Series Performance Table/ Dimension  
Reversible Gearmotor with Brake  
Speed Control Gearmotor with Brake  
Technical Information  
Standard Motors  
Cautions for Safety  
Option



Note 1 ) The models GKM/GKMN (small flange mount type) are available in the frame number 22, 28 and 32. (Not available in the frame number 12, 15, 18 and 40.)  
2 ) 1/160 1/200 1/240 The models enclosed with orange color bold line are low torque type. Special care should be given to the allowable torque in the performance table.





## Parallel Shaft

# Speed Control Gearmotor

## Performance Table Dimension diagram

# G Type

Parallel Shaft


### 1-Phase

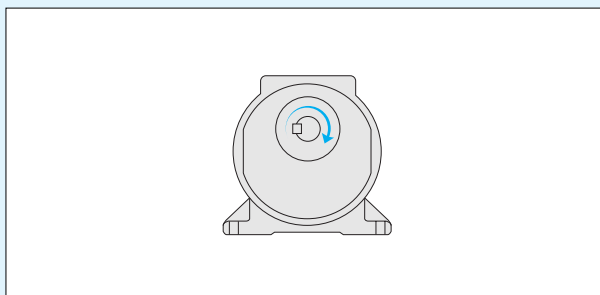
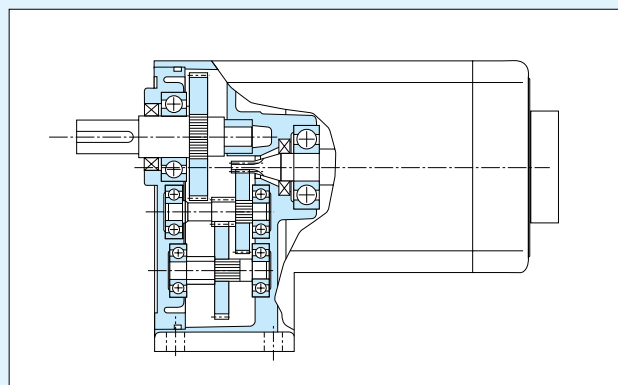
#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

Allowable torques at high speed (N·m{kgf·m}) indicate the value in the range of high rotating speed(rpm).

The percentage(%) at the allowable torque of 50% indicate the percentage against the allowable torque at high speed.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)

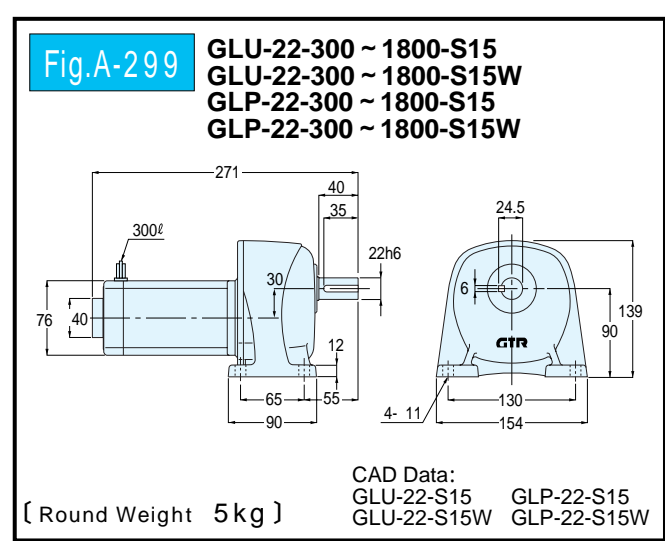
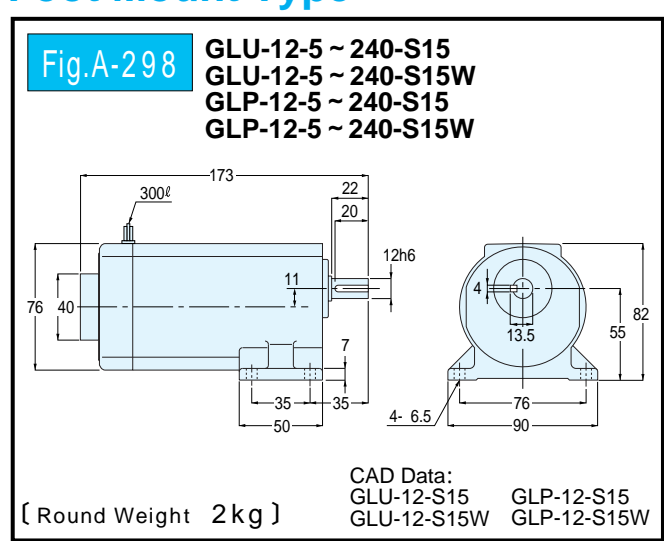




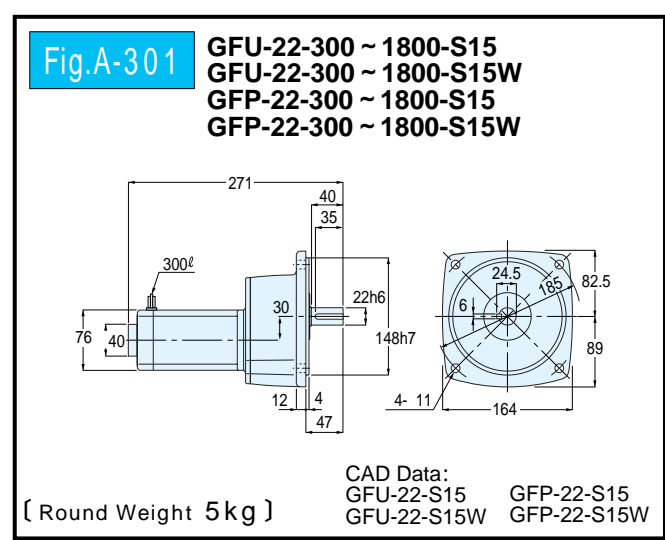
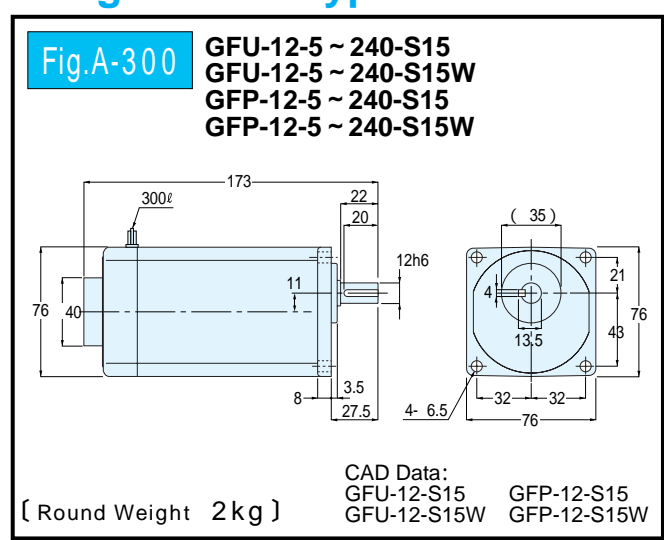




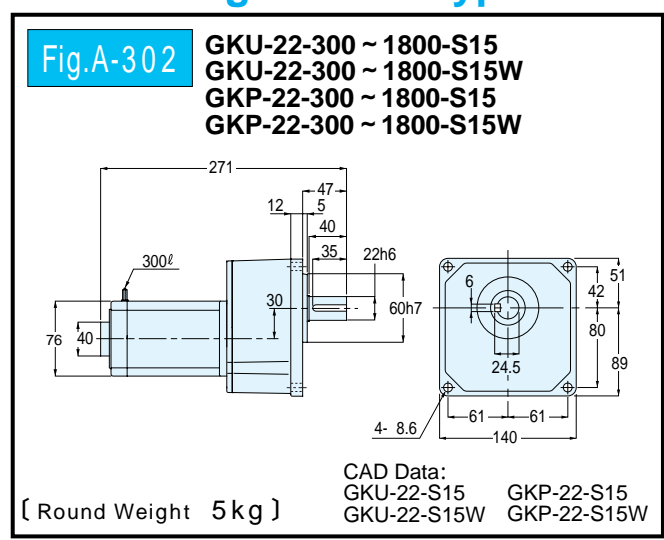
## Foot Mount Type



## Flange Mount Type

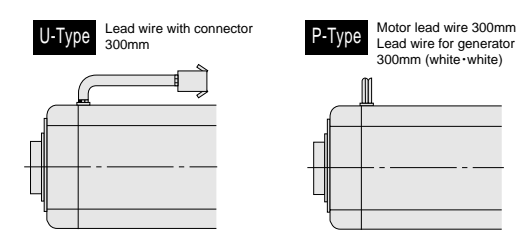


## Small Flange Mount Type



### As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.



**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Parallel Shaft Performance Table/ Dimension	Gearmotor with Brake
Water-resistant Gearmotor with Brake	Speed Control Gearmotor
Gearmotor with Clutch / Brake	GT-Type Gearmotor with Brake
Right Angle Shaft Performance Table/ Dimension	Gearmotor with Brake
With Water-resistant Brake Motor	Speed Control Gearmotor
Concentric Hollow Shaft Performance Table/ Dimension	Gearmotor with Brake
With Water-resistant Brake Motor	Speed Control Gearmotor
Parallel Shaft GTR-L Series Performance Table/ Dimension	Reversible Gearmotor with Brake
Speed Control Gearmotor with Brake	Speed Control Gearmotor with Brake
Technical Information	
Standard Motors	
Cautions for Safety	
Option	

**GTR Mini Series**

# Speed Control Gearmotor

## G-Type[Parallel Shaft] 1-Phase 25W

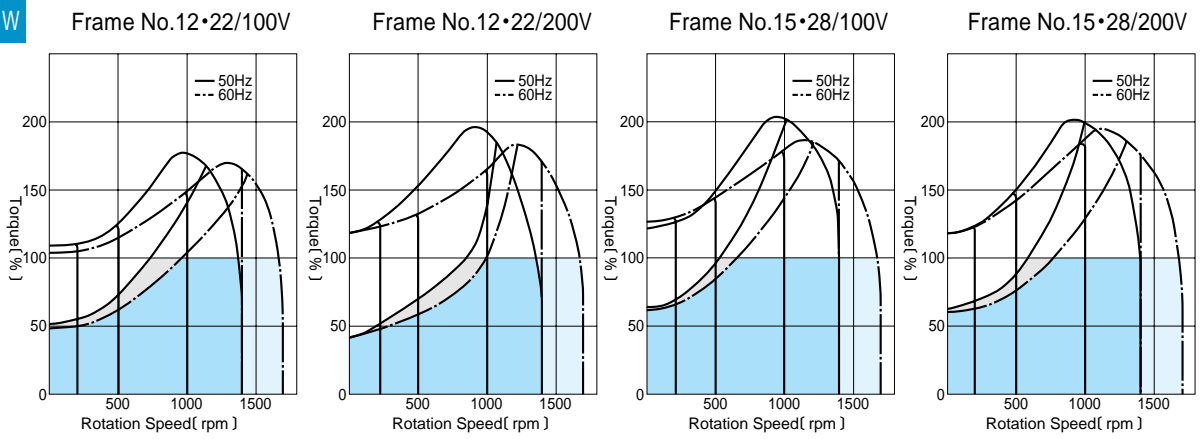
Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	MAX Current (A)	High speed rotation range (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	S25	100/100	50/60	12	0.6/0.6	750 ~ 1350/1000 ~ 1650	8	E	Totally Enclosed
					15	0.7/0.7	550 ~ 1400/650 ~ 1650	8		
					22	0.6/0.6	750 ~ 1350/1000 ~ 1650	8		
					28	0.7/0.7	550 ~ 1400/650 ~ 1650	8		
Double Voltage (Continuous Rated 4 Poles)		S25W	200/200	50/60	12	0.4/0.4	850 ~ 1350/1000 ~ 1650	2		
					15	0.4/0.4	600 ~ 1350/800 ~ 1650	2		
					22	0.4/0.4	850 ~ 1350/1000 ~ 1650	2		
					28	0.4/0.4	600 ~ 1350/800 ~ 1650	2		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable O.H.L		Output Shaft Allowable Torque			Page, Diagram No. of the Outer Dimension Diagram, Round Weight		
			50Hz	60Hz	N	kgf	high speed		50rpm (%)	GLU•GLP	GFU•GFP	GKU•GKP
							N•m	kgf•m				
1-phase 25W	12	1/ 5	300	360	98	10	0.59	0.06	50 (100V) 45 (200V)	P.A115 Fig.A-303 2kg	P.A116 Fig.A-307 2kg	
		1/ 7.5	200	240	196	20	0.78	0.08				
		1/ 10	150	180	245	25	1.08	0.11				
		1/ 15	100	120	343	35	1.67	0.17				
		1/ 20	75	90	441	45	2.25	0.23				
		1/ 25	60	72	490	50	2.74	0.28				
		1/ 30	50	60	539	55	3.33	0.34				
		1/ 40	37.5	45	588	60	4.41	0.45				
		1/ 50	30	36	637	65	5.49	0.56				
		1/ 60	25	30	686	70	6.66	0.68				
		1/ 80	18.8	22.5	735	75	8.43	0.86				
		1/ 100	15	18	735	75	10.8	1.1				
	1/ 120	12.5	15	784	80	12.7	1.3					
	15	1/ 160	9.4	11.2	1080	110	16.7	1.7	60 (100V) (200V)	P.A115 Fig.A-304 3kg	P.A116 Fig.A-308 3kg	
		1/ 200	7.5	9	1080	110	20.6	2.1				
		1/ 240	6.3	7.5	1080	110	25.5	2.6				
	22	1/ 300	5	6	1760	180	28.4	2.9	50 (100V) 45 (200V)	P.A115 Fig.A-305 5kg	P.A116 Fig.A-309 5kg	P.A116 Fig.A-311 5kg
		1/ 375	4	4.8	1760	180	35.3	3.6				
		1/ 450	3.3	4	1760	180	42.1	4.3				
		1/ 600	2.5	3	1760	180	55.9	5.7				
		1/ 750	2	2.4	1760	180	69.6	7.1				
	1/ 900	1.7	2	1760	180	84.3	8.6					
	28	1/1200	1.3	1.5	2740	280	108	11	60 (100V) (200V)	P.A115 Fig.A-306 7kg	P.A116 Fig.A-310 7kg	P.A116 Fig.A-312 7kg
		1/1500	1	1.2	2740	280	137	14				
1/1800		0.8	1	2740	280	167	17					

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A111

### Torque-Rotation Speed Characteristic Graph Note) 100% torque shows the allowable torque at high speed.

**1-Phase 25W**



<b>Model Code</b> P.A108	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110 ~ E112
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Foot Mount type

## Foot Mount Type

**Fig.A-303** GLU-12-5 ~ 120-S25  
GLU-12-5 ~ 120-S25W  
GLP-12-5 ~ 120-S25  
GLP-12-5 ~ 120-S25W

[ Round Weight 2 kg ]

CAD Data:  
GLU-12-S25 GLP-12-S25  
GLU-12-S25W GLP-12-S25W

**Fig.A-304** GLU-15-160 ~ 240-S25  
GLU-15-160 ~ 240-S25W  
GLP-15-160 ~ 240-S25  
GLP-15-160 ~ 240-S25W

[ Round Weight 3 kg ]

CAD Data:  
GLU-15-S25 GLP-15-S25  
GLU-15-S25W GLP-15-S25W

**Fig.A-305** GLU-22-300 ~ 900-S25  
GLU-22-300 ~ 900-S25W  
GLP-22-300 ~ 900-S25  
GLP-22-300 ~ 900-S25W

[ Round Weight 5 kg ]

CAD Data:  
GLU-22-S25 GLP-22-S25  
GLU-22-S25W GLP-22-S25W

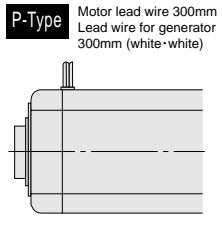
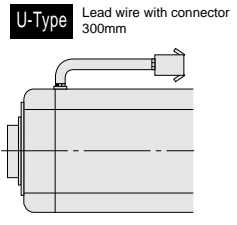
**Fig.A-306** GLU-28-1200 ~ 1800-S25  
GLU-28-1200 ~ 1800-S25W  
GLP-28-1200 ~ 1800-S25  
GLP-28-1200 ~ 1800-S25W

[ Round Weight 7 kg ]

CAD Data:  
GLU-28-S25 GLP-28-S25  
GLU-28-S25W GLP-28-S25W

## As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.



Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

GTR Mini Series

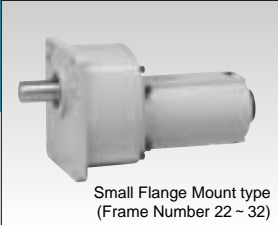
# Speed Control Gearmotor

## G-Type (Parallel Shaft) 1-Phase 25W

### Flange Mount Type



Flange Mount type



Small Flange Mount type (Frame Number 22 ~ 32)

Parallel Shaft Performance Table / Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch / Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table / Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table / Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table / Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

**Fig.A-307** GFU-12-5 ~ 120-S25  
GFU-12-5 ~ 120-S25W  
GFP-12-5 ~ 120-S25  
GFP-12-5 ~ 120-S25W

CAD Data:  
GFU-12-S25    GFP-12-S25  
GFU-12-S25W    GFP-12-S25W

[ Round Weight 2 kg ]

**Fig.A-308** GFU-15-160 ~ 240-S25  
GFU-15-160 ~ 240-S25W  
GFP-15-160 ~ 240-S25  
GFP-15-160 ~ 240-S25W

CAD Data:  
GFU-15-S25    GFP-15-S25  
GFU-15-S25W    GFP-15-S25W

[ Round Weight 3 kg ]

**Fig.A-309** GFU-22-300 ~ 900-S25  
GFU-22-300 ~ 900-S25W  
GFP-22-300 ~ 900-S25  
GFP-22-300 ~ 900-S25W

CAD Data:  
GFU-22-S25    GFP-22-S25  
GFU-22-S25W    GFP-22-S25W

[ Round Weight 5 kg ]

**Fig.A-310** GFU-28-1200 ~ 1800-S25  
GFU-28-1200 ~ 1800-S25W  
GFP-28-1200 ~ 1800-S25  
GFP-28-1200 ~ 1800-S25W

CAD Data:  
GFU-28-S25    GFP-28-S25  
GFU-28-S25W    GFP-28-S25W

[ Round Weight 7 kg ]

### Small Flange Mount Type

**Fig.A-311** GKU-22-300 ~ 900-S25  
GKU-22-300 ~ 900-S25W  
GKP-22-300 ~ 900-S25  
GKP-22-300 ~ 900-S25W

CAD Data:  
GKU-22-S25    GKP-22-S25  
GKU-22-S25W    GKP-22-S25W

[ Round Weight 5 kg ]

**Fig.A-312** GKU-28-1200 ~ 1800-S25  
GKU-28-1200 ~ 1800-S25W  
GKP-28-1200 ~ 1800-S25  
GKP-28-1200 ~ 1800-S25W

CAD Data:  
GKU-28-S25    GKP-28-S25  
GKU-28-S25W    GKP-28-S25W

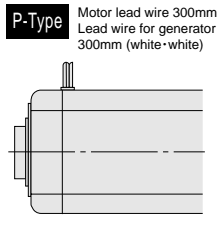
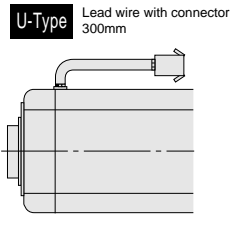
[ Round Weight 7 kg ]

(Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<p><b>Model Code</b> P.A108</p>	<p><b>Lead-Wire/Terminal Box Position Mark</b> P.E54</p>	<p><b>Option</b> P.E110 ~ E112</p>
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**As for motor-type:**

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.



Parallel Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

GTR Mini Series

# Speed Control Gearmotor

## G-Type[Parallel Shaft] 1-Phase 40W

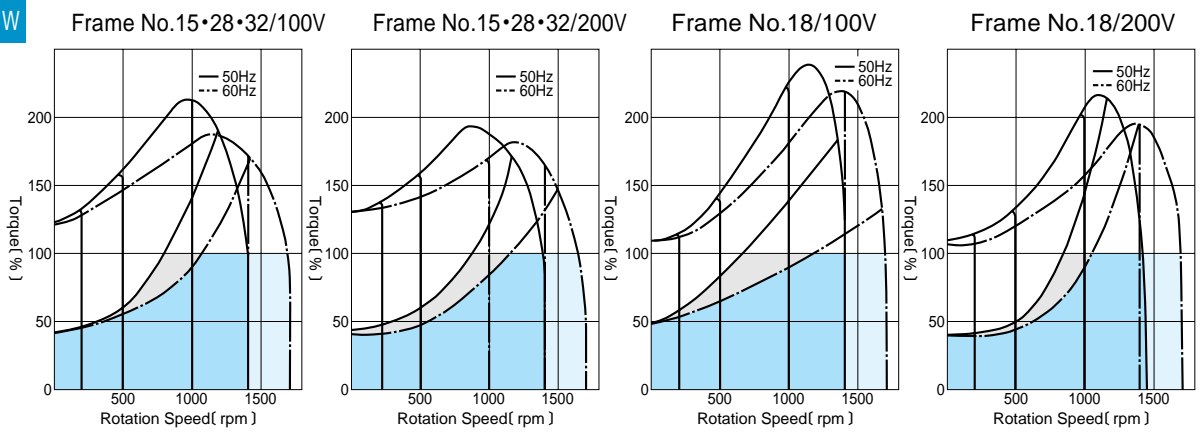
Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	MAX Current (A)	High speed rotation range (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	S40	100/100	50/60	15	0.9/0.9	800 ~ 1350/1050 ~ 1650	12	E	Totally Enclosed
					18	1.1/0.9	650 ~ 1400/1200 ~ 1700	12		
					28	0.9/0.9	800 ~ 1350/1050 ~ 1650	12		
					32	0.9/0.9	800 ~ 1350/1050 ~ 1650	12		
Double Voltage (Continuous Rated 4 Poles)		S40W	200/200	50/60	15	0.5/0.5	900 ~ 1350/1300 ~ 1650	3		
					18	0.6/0.6	850 ~ 1400/1100 ~ 1700	3		
					28	0.5/0.5	900 ~ 1350/1300 ~ 1650	3		
					32	0.5/0.5	900 ~ 1350/1300 ~ 1650	3		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable O.H.L		Output Shaft Allowable Torque			Page, Diagram No. of the Outer Dimension Diagram, Round Weight		
			50Hz	60Hz	N	kgf	high speed		50rpm (%)	GLU•GLP	GFU•GFP	GKU•GKP
							N•m	kgf•m				
1-phase 40W	15	1/ 5	300	360	98	10	0.88	0.09	40 (100V) (200V)	P.A119 Fig.A-313 3kg	P.A120 Fig.A-317 3kg	
		1/ 7.5	200	240	196	20	1.37	0.14				
		1/ 10	150	180	245	25	1.76	0.18				
		1/ 15	100	120	343	35	2.65	0.27				
		1/ 20	75	90	441	45	3.53	0.36				
		1/ 25	60	72	490	50	4.41	0.45				
		1/ 30	50	60	539	55	5.29	0.54				
		1/ 40	37.5	45	784	80	7.06	0.72				
		1/ 50	30	36	882	90	8.82	0.90				
		1/ 60	25	30	882	90	10.8	1.1				
	18	1/ 160	9.4	11.2	1370	140	26.5	2.7	50 (100V) 40 (200V)	P.A119 Fig.A-314 4kg	P.A120 Fig.A-318 4kg	
		1/ 200	7.5	9	1370	140	33.3	3.4				
		1/ 240	6.3	7.5	1370	140	40.2	4.1				
		1/ 300	5	6	2740	280	45.1	4.6				
	28	1/ 375	4	4.8	2740	280	55.9	5.7	40 (100V) (200V)	P.A119 Fig.A-315 7kg	P.A120 Fig.A-319 7kg	P.A120 Fig.A-321 7kg
		1/ 450	3.3	4	2740	280	67.6	6.9				
		1/ 600	2.5	3	2740	280	90.2	9.2				
		1/ 750	2	2.4	2740	280	118	12				
		1/ 900	1.7	2	2740	280	137	14				
	32	1/1200	1.3	1.5	5100	520	176	18	40 (100V) (200V)	P.A119 Fig.A-316 11kg	P.A120 Fig.A-320 11kg	P.A120 Fig.A-322 11kg
1/1500		1	1.2	5100	520	225	23					
1/1800		0.8	1	5100	520	274	28					

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A111

### Torque-Rotation Speed Characteristic Graph Note) 100% torque shows the allowable torque at high speed.

1-Phase 40W



Model Code P.A108	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110 ~ E112
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Foot Mount type

## Foot Mount Type

**Fig.A-313** GLU-15-5 ~ 120-S40  
GLU-15-5 ~ 120-S40W  
GLP-15-5 ~ 120-S40  
GLP-15-5 ~ 120-S40W

CAD Data:  
GLU-15-S40 GLP-15-S40  
GLU-15-S40W GLP-15-S40W

[ Round Weight 3 kg ]

**Fig.A-314** GLU-18-160 ~ 240-S40  
GLU-18-160 ~ 240-S40W  
GLP-18-160 ~ 240-S40  
GLP-18-160 ~ 240-S40W

CAD Data:  
GLU-18-S40 GLP-18-S40  
GLU-18-S40W GLP-18-S40W

[ Round Weight 4 kg ]

**Fig.A-315** GLU-28-300 ~ 900-S40  
GLU-28-300 ~ 900-S40W  
GLP-28-300 ~ 900-S40  
GLP-28-300 ~ 900-S40W

CAD Data:  
GLU-28-S40 GLP-28-S40  
GLU-28-S40W GLP-28-S40W

[ Round Weight 7 kg ]

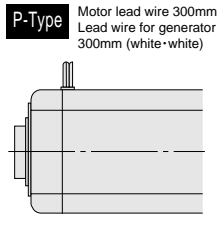
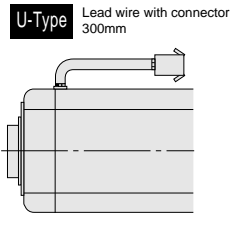
**Fig.A-316** GLU-32-1200 ~ 1800-S40  
GLU-32-1200 ~ 1800-S40W  
GLP-32-1200 ~ 1800-S40  
GLP-32-1200 ~ 1800-S40W

CAD Data:  
GLU-32-S40 GLP-32-S40  
GLU-32-S40W GLP-32-S40W

[ Round Weight 11 kg ]

### As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.



Parallel Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance  
Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

Reversible  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

Standard  
Motors

Cautions  
for Safety

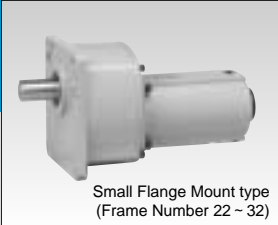
Option

GTR Mini Series

# Speed Control Gearmotor

## G-Type (Parallel Shaft) 1-Phase 40W

### Flange Mount Type



Parallel Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

Water-  
resistant  
Gearmotor  
with Brake

Speed  
Control  
Gearmotor

Gearmotor  
with Clutch  
/Brake

GT-Type  
Gearmotor  
with Brake

Right Angle Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Concentric Hollow Shaft  
Concentric Solid Shaft  
Performance Table/  
Dimension

Gearmotor  
with Brake

With Water-  
resistant  
Brake Motor

Speed  
Control  
Gearmotor

Parallel Shaft  
GTR-L Series  
Performance Table/  
Dimension

Reversible  
Gearmotor  
with Brake

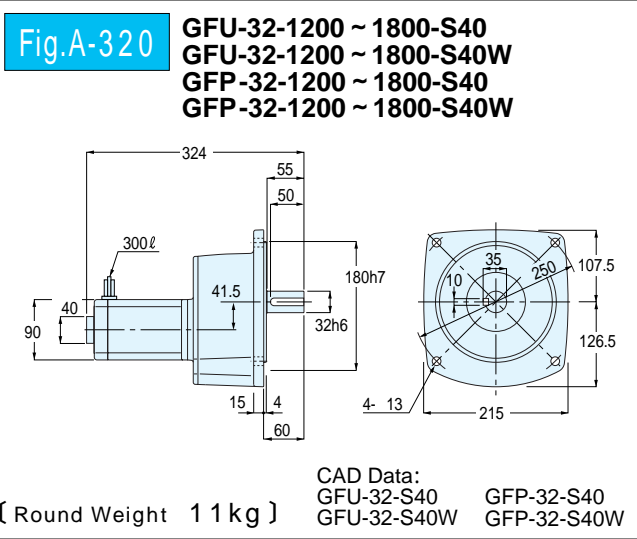
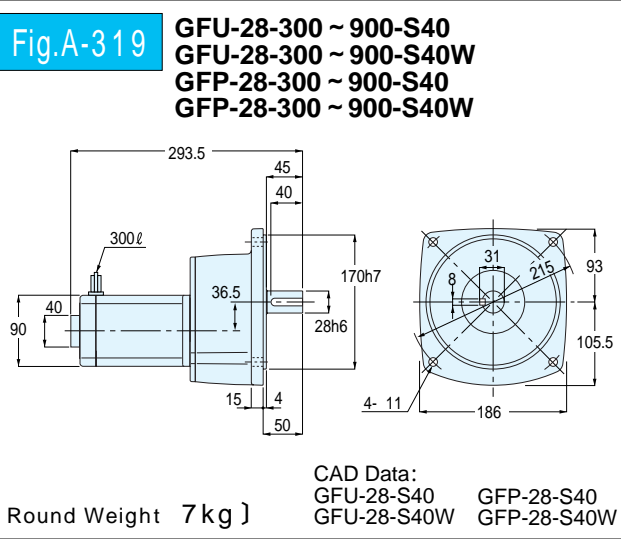
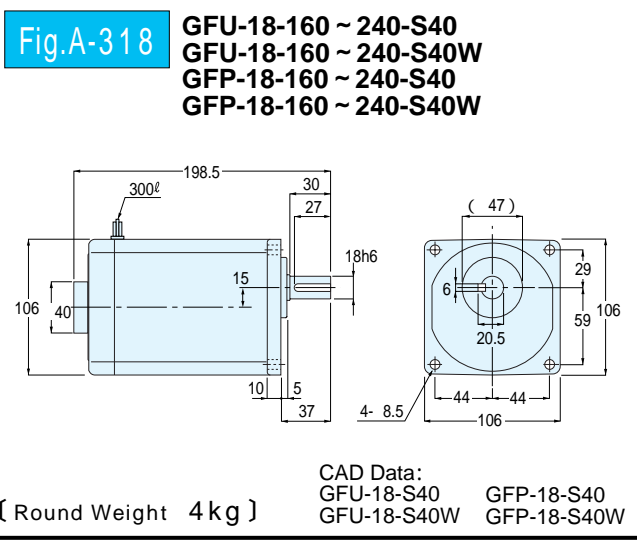
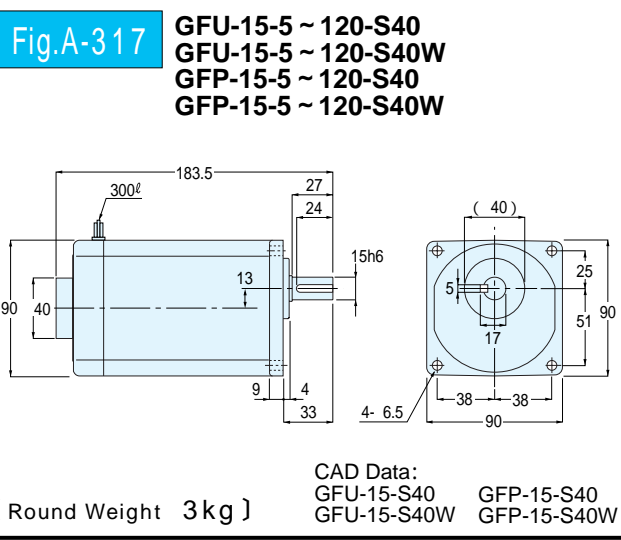
Speed  
Control  
Gearmotor  
with Brake

Technical  
Information

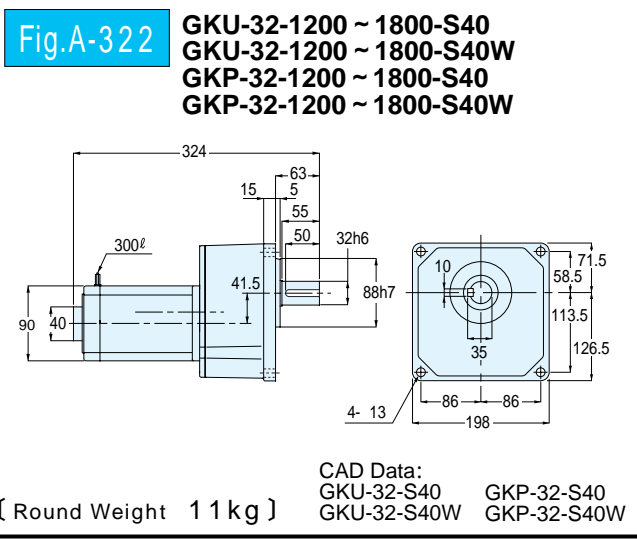
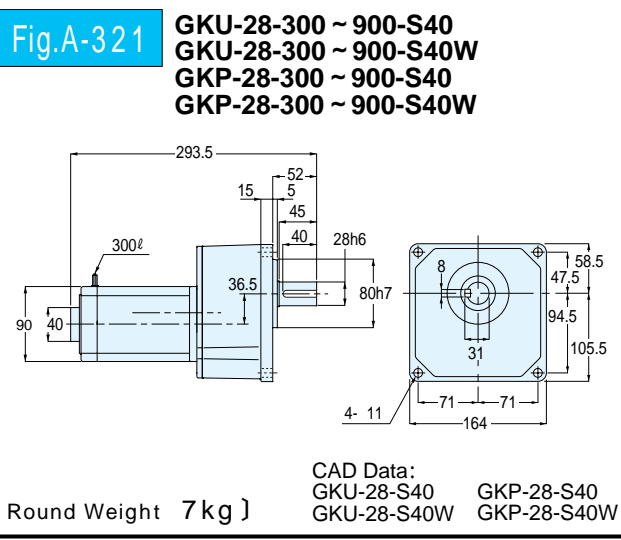
Standard  
Motors

Cautions  
for Safety

Option



### Small Flange Mount Type



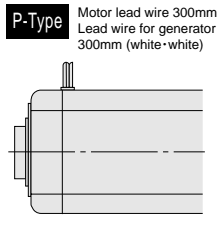
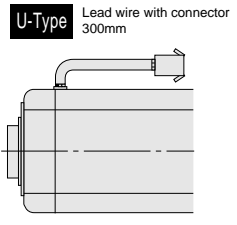
Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A108	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110 ~ E112
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### As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.



Parallel Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

GTR Mini Series

# Speed Control Gearmotor

## G-Type[Parallel Shaft] 1-Phase 60W

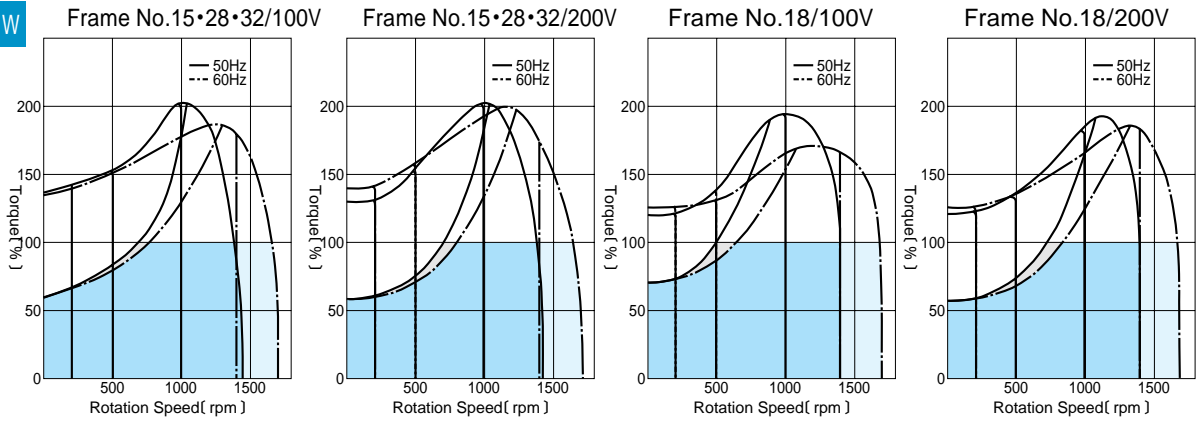
Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	MAX Current (A)	High speed rotation range (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	S60	100/100	50/60	15	1.0/1.7	700 ~ 1350/800 ~ 1650	20	E	Totally Enclosed (forced fan attached)
					18	1.3/1.3	500 ~ 1400/650 ~ 1650	20		
					28	1.0/1.7	700 ~ 1350/800 ~ 1650	20		
					32	1.0/1.7	700 ~ 1350/800 ~ 1650	20		
Double Voltage (Continuous Rated 4 Poles)		S60W	200/200	50/60	15	0.8/0.9	700 ~ 1350/800 ~ 1650	5		
					18	0.8/0.9	750 ~ 1400/850 ~ 1650	5		
					28	0.8/0.9	700 ~ 1350/800 ~ 1650	5		
					32	0.8/0.9	700 ~ 1350/800 ~ 1650	5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable O.H.L		Output Shaft Allowable Torque			Page, Diagram No. of the Outer Dimension Diagram, Round Weight				
			50Hz	60Hz	N	kgf	high speed		50rpm (%)	GLU•GLP	GFU•GFP	GKU•GKP		
							N•m	kgf•m						
1-phase 60W	15	1/ 5	300	360	98	10	1.37	0.14	60 (100V) 55 (200V)	P.A123 Fig.A-323 3kg	P.A124 Fig.A-327 3kg	/		
		1/ 7.5	200	240	196	20	2.06	0.21						
		1/ 10	150	180	245	25	2.74	0.28						
		1/ 15	100	120	343	35	4.12	0.42						
		1/ 20	75	90	441	45	5.49	0.56						
		1/ 25	60	72	490	50	6.96	0.71						
		1/ 30	50	60	539	55	8.33	0.85						
		1/ 40	37.5	45	784	80	10.8	1.1						
	1/ 50	30	36	882	90	13.7	1.4	70 (100V) 55 (200V)	P.A123 Fig.A-324 4kg	P.A124 Fig.A-328 4kg				
	1/ 60	25	30	882	90	16.7	1.7							
	1/ 80	18.8	22.5	1270	130	20.6	2.1							
	1/ 100	15	18	1270	130	26.5	2.7							
	1/ 120	12.5	15	1370	140	31.4	3.2							
	1/ 160	9.4	11.2	1370	140	42.1	4.3							
	1/ 200	7.5	9	1370	140	52.9	5.4							
	* 1/ 240	6.3	7.5	1370	140	53.9	5.5							
	28	28	1/ 300	5	6	2740	280	70.6	7.2	60 (100V) 55 (200V)	P.A123 Fig.A-325 7kg		P.A124 Fig.A-329 7kg	P.A124 Fig.A-331 7kg
			1/ 375	4	4.8	2740	280	88.2	9.0					
			1/ 450	3.3	4	2740	280	108	11					
			1/ 600	2.5	3	2740	280	137	14					
			1/ 750	2	2.4	2740	280	176	18					
			1/ 900	1.7	2	2740	280	216	22					
	32	32	1/1200	1.3	1.5	5100	520	284	29	60 (100V) 55 (200V)	P.A123 Fig.A-326 11kg		P.A124 Fig.A-330 11kg	P.A124 Fig.A-332 11kg
			1/1500	1	1.2	5100	520	353	36					
1/1800			0.8	1	5100	520	421	43						

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A111.

### Torque-Rotation Speed Characteristic Graph Note) 100% torque shows the allowable torque at high speed.

1-Phase 60W



<b>Model Code</b> P.A108	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110 ~ E112
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Foot Mount type

## Foot Mount Type

**Fig.A-323** GLU-15-5 ~ 60-S60  
GLU-15-5 ~ 60-S60W  
GLP-15-5 ~ 60-S60  
GLP-15-5 ~ 60-S60W

CAD Data:  
GLU-15-S60 GLP-15-S60  
GLU-15-S60W GLP-15-S60W

[ Round Weight 3 kg ]

**Fig.A-324** GLU-18-80 ~ 240-S60  
GLU-18-80 ~ 240-S60W  
GLP-18-80 ~ 240-S60  
GLP-18-80 ~ 240-S60W

CAD Data:  
GLU-18-S60 GLP-18-S60  
GLU-18-S60W GLP-18-S60W

[ Round Weight 4 kg ]

**Fig.A-325** GLU-28-300 ~ 900-S60  
GLU-28-300 ~ 900-S60W  
GLP-28-300 ~ 900-S60  
GLP-28-300 ~ 900-S60W

CAD Data:  
GLU-28-S60 GLP-28-S60  
GLU-28-S60W GLP-28-S60W

[ Round Weight 7 kg ]

**Fig.A-326** GLU-32-1200 ~ 1800-S60  
GLU-32-1200 ~ 1800-S60W  
GLP-32-1200 ~ 1800-S60  
GLP-32-1200 ~ 1800-S60W

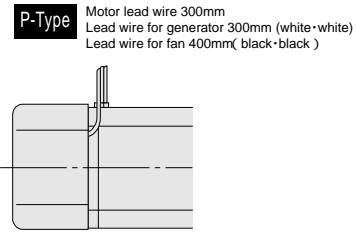
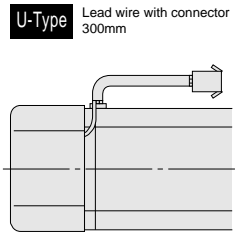
CAD Data:  
GLU-32-S60 GLP-32-S60  
GLU-32-S60W GLP-32-S60W

[ Round Weight 11 kg ]

## As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.

60W motor is totally enclosed fan-cooled.



Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

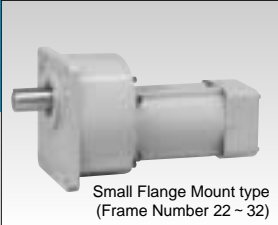
Option

GTR Mini Series

# Speed Control Gearmotor

## G-Type(Parallel Shaft) 1-Phase 60W

### Flange Mount Type



Parallel Shaft Performance Table/Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

**Fig.A-327** GFU-15-5 ~ 60-S60  
GFU-15-5 ~ 60-S60W  
GFP-15-5 ~ 60-S60  
GFP-15-5 ~ 60-S60W

CAD Data:  
GFU-15-S60    GFP-15-S60  
GFU-15-S60W    GFP-15-S60W

[ Round Weight 3 kg ]

**Fig.A-328** GFU-18-80 ~ 240-S60  
GFU-18-80 ~ 240-S60W  
GFP-18-80 ~ 240-S60  
GFP-18-80 ~ 240-S60W

CAD Data:  
GFU-18-S60    GFP-18-S60  
GFU-18-S60W    GFP-18-S60W

[ Round Weight 4 kg ]

**Fig.A-329** GFU-28-300 ~ 900-S60  
GFU-28-300 ~ 900-S60W  
GFP-28-300 ~ 900-S60  
GFP-28-300 ~ 900-S60W

CAD Data:  
GFU-28-S60    GFP-28-S60  
GFU-28-S60W    GFP-28-S60W

[ Round Weight 7 kg ]

**Fig.A-330** GFU-32-1200 ~ 1800-S60  
GFU-32-1200 ~ 1800-S60W  
GFP-32-1200 ~ 1800-S60  
GFP-32-1200 ~ 1800-S60W

CAD Data:  
GFU-32-S60    GFP-32-S60  
GFU-32-S60W    GFP-32-S60W

[ Round Weight 11 kg ]

### Small Flange Mount Type

**Fig.A-331** GKU-28-300 ~ 900-S60  
GKU-28-300 ~ 900-S60W  
GKP-28-300 ~ 900-S60  
GKP-28-300 ~ 900-S60W

CAD Data:  
GKU-28-S60    GKP-28-S60  
GKU-28-S60W    GKP-28-S60W

[ Round Weight 7 kg ]

**Fig.A-332** GKU-32-1200 ~ 1800-S60  
GKU-32-1200 ~ 1800-S60W  
GKP-32-1200 ~ 1800-S60  
GKP-32-1200 ~ 1800-S60W

CAD Data:  
GKU-32-S60    GKP-32-S60  
GKU-32-S60W    GKP-32-S60W

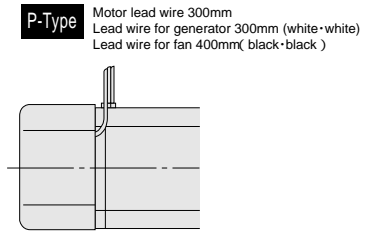
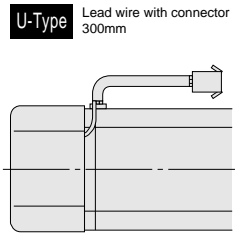
[ Round Weight 11 kg ]

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<b>Model Code</b> P.A108	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110 ~ E112
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## As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor.  
Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.  
60W motor is totally enclosed fan-cooled.



Parallel Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

GTR Mini Series

# Speed Control Gearmotor

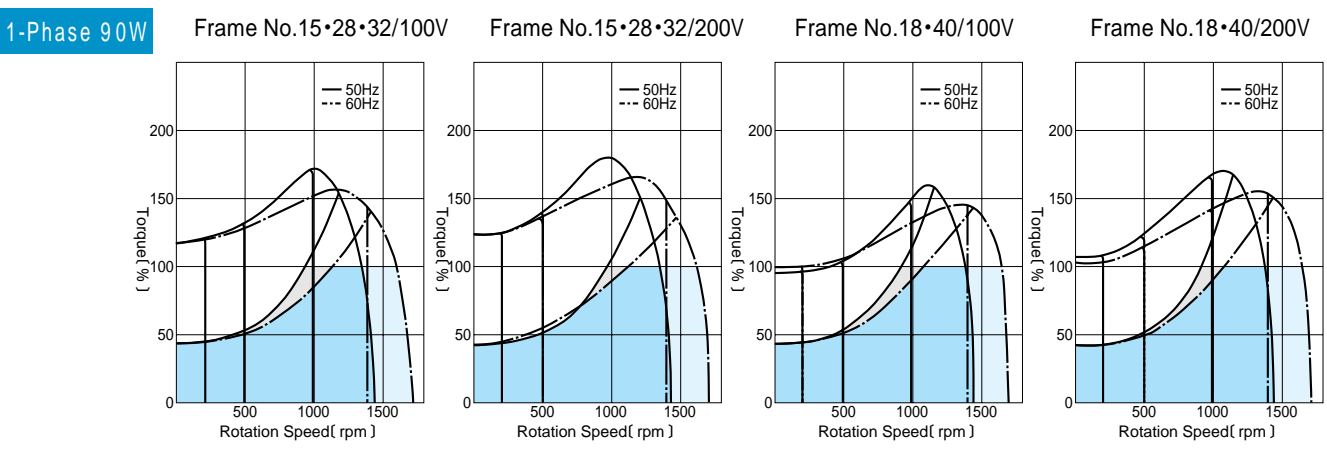
## G-Type[Parallel Shaft] 1-Phase 90W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	MAX Current (A)	High speed rotation range (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	S90	100/100	50/60	15	1.4/2.0	950 ~ 1300/1150 ~ 1600	20	E	Totally Enclosed (forced fan attached)
					18	1.4/2.0	950 ~ 1350/1100 ~ 1650	20		
					28	1.4/2.0	950 ~ 1300/1150 ~ 1600	20		
					32	1.4/2.0	950 ~ 1300/1150 ~ 1600	20		
					40	1.4/2.0	950 ~ 1350/1100 ~ 1650	20		
Double Voltage (Continuous Rated 4 Poles)		S90W	200/200	50/60	15	0.9/1.0	1000 ~ 1350/1150 ~ 1600	5		
					18	1.0/1.1	900 ~ 1350/1100 ~ 1650	5		
					28	0.9/1.0	1000 ~ 1350/1150 ~ 1600	5		
					32	0.9/1.0	1000 ~ 1350/1150 ~ 1600	5		
					40	1.0/1.1	900 ~ 1350/1100 ~ 1650	5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable O.H.L		Output Shaft Allowable Torque			Page, Diagram No. of the Outer Dimension Diagram, Round Weight		
			50Hz	60Hz	N	kgf	high speed		50rpm (%)	GLU•GLP	GFU•GFP	GKU•GKP
							N•m	kgf•m				
1-phase 90W	15	1/ 5	300	360	147	15	2.06	0.21	40 (100V) (200V)	P.A127 Fig.A-333 3kg	P.A128 Fig.A-338 3kg	
		1/ 7.5	200	240	245	25	3.14	0.32				
		1/ 10	150	180	343	35	4.12	0.42				
		1/ 15	100	120	441	45	6.17	0.63				
		1/ 20	75	90	539	55	8.33	0.85				
		1/ 25	60	72	588	60	10.8	1.1				
	18	1/ 40	37.5	45	1080	110	16.7	1.7	40 (100V) (200V)	P.A127 Fig.A-334 4kg	P.A128 Fig.A-339 4kg	
		1/ 50	30	36	1180	120	20.6	2.1				
		1/ 60	25	30	1180	120	24.5	2.5				
		1/ 80	18.8	22.5	1270	130	31.4	3.2				
		1/ 100	15	18	1270	130	39.2	4.0				
		1/ 120	12.5	15	1370	140	47.0	4.8				
		* 1/ 160	9.4	11.2	1370	140	53.9	5.5				
		* 1/ 200	7.5	9	1370	140	53.9	5.5				
	28	1/ 300	5	6	2740	280	108	11	40 (100V) (200V)	P.A127 Fig.A-335 7kg	P.A128 Fig.A-340 7kg	P.A129 Fig.A-343 7kg
		1/ 450	3.3	4	2740	280	157	16				
	32	1/ 600	2.5	3	5100	520	216	22	40 (100V) (200V)	P.A127 Fig.A-336 11kg	P.A128 Fig.A-341 11kg	P.A129 Fig.A-344 11kg
		1/ 750	2	2.4	5100	520	265	27				
		1/ 900	1.7	2	5100	520	314	32				
	40	1/1200	1.3	1.5	7060	720	421	43	40 (100V) (200V)	P.A127 Fig.A-337 15kg	P.A128 Fig.A-342 15kg	
1/1500		1	1.2	7060	720	529	54					
		1/1800	0.8	1	7060	720	637	65				

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A111.

### Torque-Rotation Speed Characteristic Graph Note) 100% torque shows the allowable torque at high speed.



Model Code P.A108	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110 ~ E112
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Foot Mount type

## Foot Mount Type

**Fig.A-333** GLU-15-5 ~ 30-S90  
GLU-15-5 ~ 30-S90W  
GLP-15-5 ~ 30-S90  
GLP-15-5 ~ 30-S90W

[ Round Weight 3 kg ]

CAD Data:  
GLU-15-S90 GLP-15-S90  
GLU-15-S90W GLP-15-S90W

**Fig.A-334** GLU-18-40 ~ 240-S90  
GLU-18-40 ~ 240-S90W  
GLP-18-40 ~ 240-S90  
GLP-18-40 ~ 240-S90W

[ Round Weight 4 kg ]

CAD Data:  
GLU-18-S90 GLP-18-S90  
GLU-18-S90W GLP-18-S90W

**Fig.A-335** GLU-28-300 ~ 450-S90  
GLU-28-300 ~ 450-S90W  
GLP-28-300 ~ 450-S90  
GLP-28-300 ~ 450-S90W

[ Round Weight 7 kg ]

CAD Data:  
GLU-28-S90 GLP-28-S90  
GLU-28-S90W GLP-28-S90W

**Fig.A-336** GLU-32-600 ~ 900-S90  
GLU-32-600 ~ 900-S90W  
GLP-32-600 ~ 900-S90  
GLP-32-600 ~ 900-S90W

[ Round Weight 11 kg ]

CAD Data:  
GLU-32-S90 GLP-32-S90  
GLU-32-S90W GLP-32-S90W

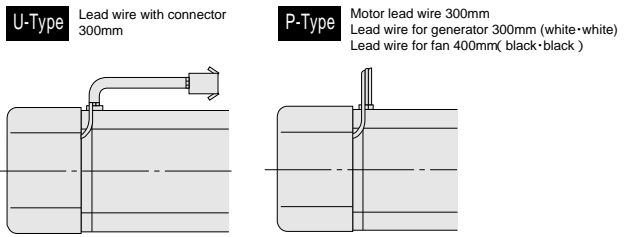
**Fig.A-337** GLU-40-1200 ~ 1800-S90  
GLU-40-1200 ~ 1800-S90W  
GLP-40-1200 ~ 1800-S90  
GLP-40-1200 ~ 1800-S90W

[ Round Weight 15 kg ]

CAD Data:  
GLU-40-S90 GLP-40-S90  
GLU-40-S90W GLP-40-S90W

### As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor. Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right. 60W motor is totally enclosed fan-cooled.



Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

GTR Mini Series

# Speed Control Gearmotor

## G-Type [Parallel Shaft] 1-Phase 90W

### Flange Mount Type



Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

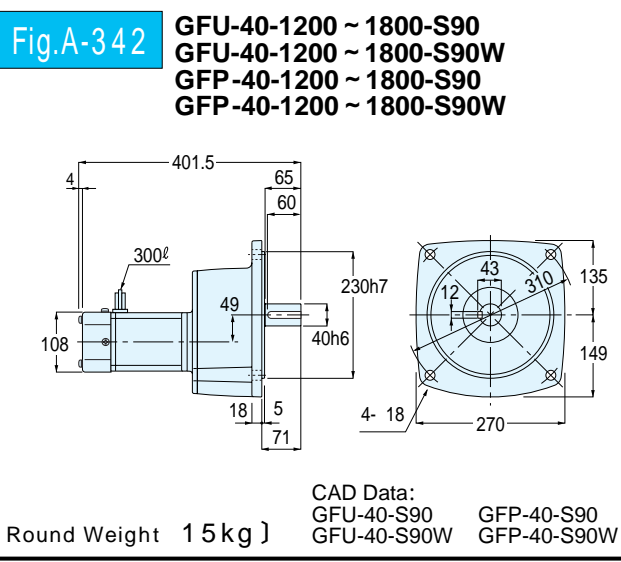
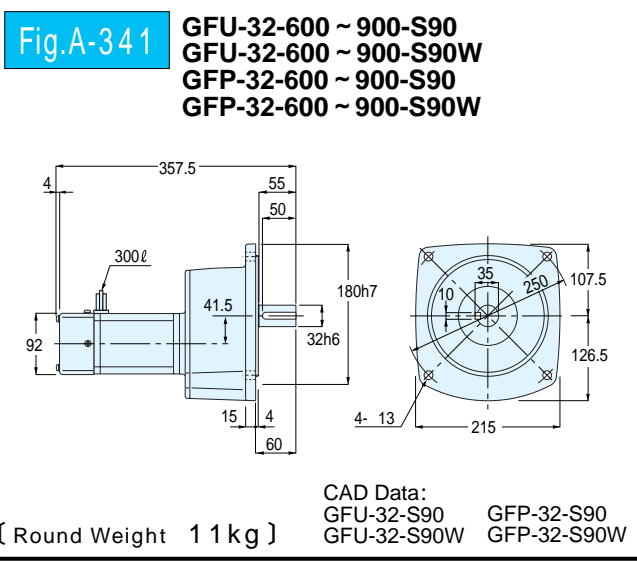
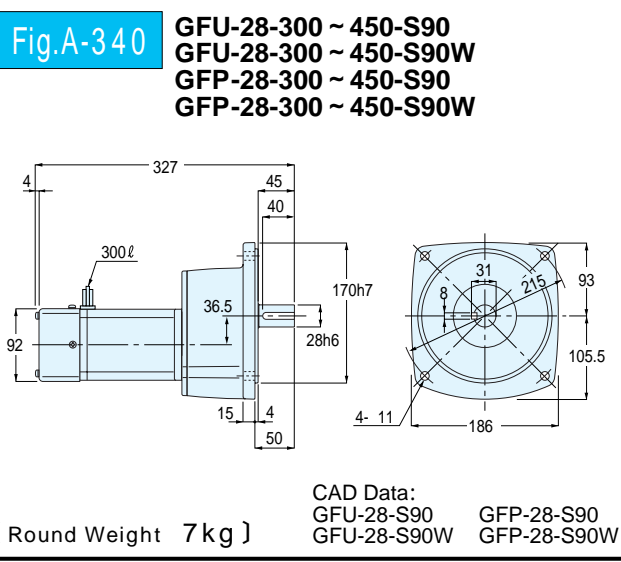
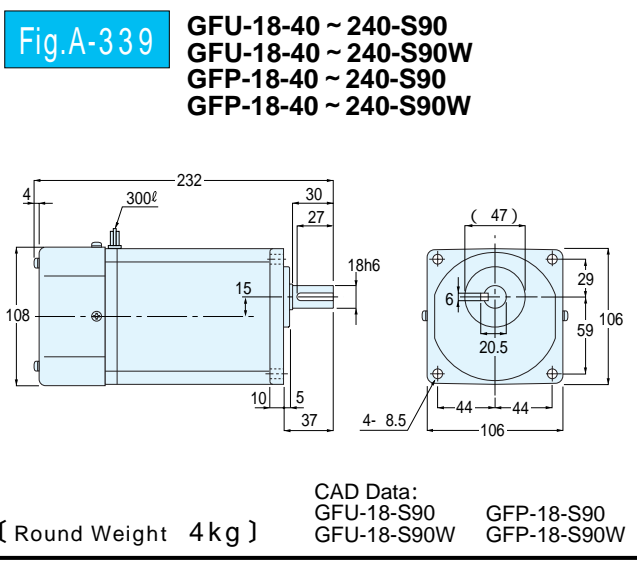
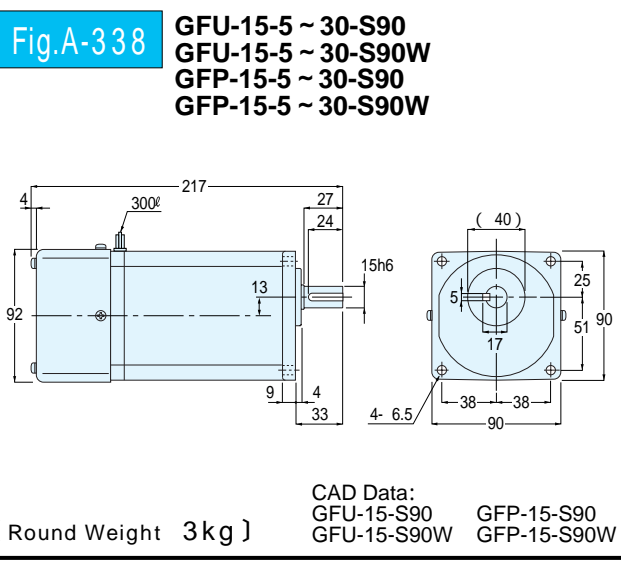
Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

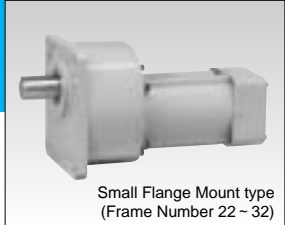
Option



Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<b>Model Code</b> P.A108	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110 ~ E112
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Small Flange Mount type  
(Frame Number 22 ~ 32)

## Small Flange Mounted Type

**Fig.A-343** **GKU-28-300 ~ 450-S90**  
**GKU-28-300 ~ 450-S90W**  
**GKP-28-300 ~ 450-S90**  
**GKP-28-300 ~ 450-S90W**

CAD Data:  
 GKU-28-S90      GKP-28-S90  
 GKU-28-S90W   GKP-28-S90W

[ Round Weight 7 kg ]

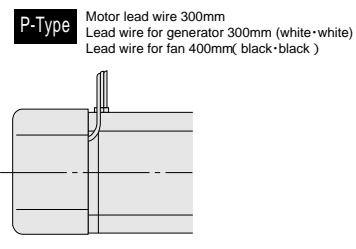
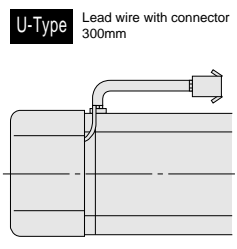
**Fig.A-344** **GKU-32-600 ~ 900-S90**  
**GKU-32-600 ~ 900-S90W**  
**GKP-32-600 ~ 900-S90**  
**GKP-32-600 ~ 900-S90W**

CAD Data:  
 GKU-32-S90      GKP-32-S90  
 GKU-32-S90W   GKP-32-S90W

[ Round Weight 11 kg ]

### As for motor-type:

"U-Type" and "P-Type" are available in the Speed Control Gearmotor.  
 Dimensions shown in the dimension diagram are all that for the "P-Type". In case of "U-Type", the only difference is the part of lead wire which has a connector as shown in the right.  
 60W motor is totally enclosed fan-cooled.



Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option





## Parallel Shaft

# Gearmotor with Clutch and Brake

## Model and Type Designation Standard Model Lineup

# G

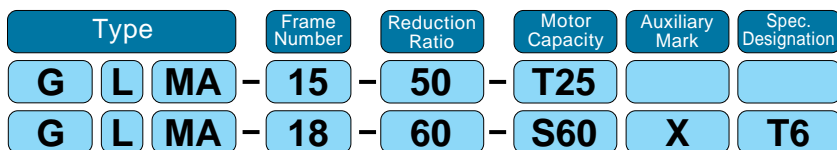
Type

Parallel Shaft

Motor Part	Number of phase	3-Phase	1-Phase
	Capacity	15W ~ 90W	15W ~ 90W
	Power Source	3 Rated Power Source 200V 50/60Hz, 220V/60Hz	100V 50/60Hz
	Insulation Classification	Class E	Class E
	Starting Method	Direct start	Capacitor Start
	Protective cooling Method	Totally Enclosed	
	Number of Pole	4	
Rating	Continuous Rating		
Speed Reduction Part	Reduction Method	Helical gear	
	Lubrication	Grease Lubrication(Maintenance Free)	
	Output Shaft	New JIS Key(JIS 1301-1976 class)	
	Output Shaft Material	S43C	
Case Material	Aluminium die-cast		
Ambient Conditions	Ambient Temperature	- 10 ~ 40	
	Ambient Humidity	100% max.(without any dew condensation)	
	Altitude	1,000m max.	
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.	
	Installation Location	Indoors	
Painting	Painting Method	Anion painting, Acrylic paint	
	Painting Color	Grey(Mansel code: 9B6/0.5)	
Mounting Direction	No restriction in the mounting angle.(horizontally, vertically or heeling angle)		

# Model and Type Designation G-Type(Parallel Shaft)

G-Type gearmotors with Clutch and Brake are classified by codes as shown below. Specify these codes in your inquiry and order.

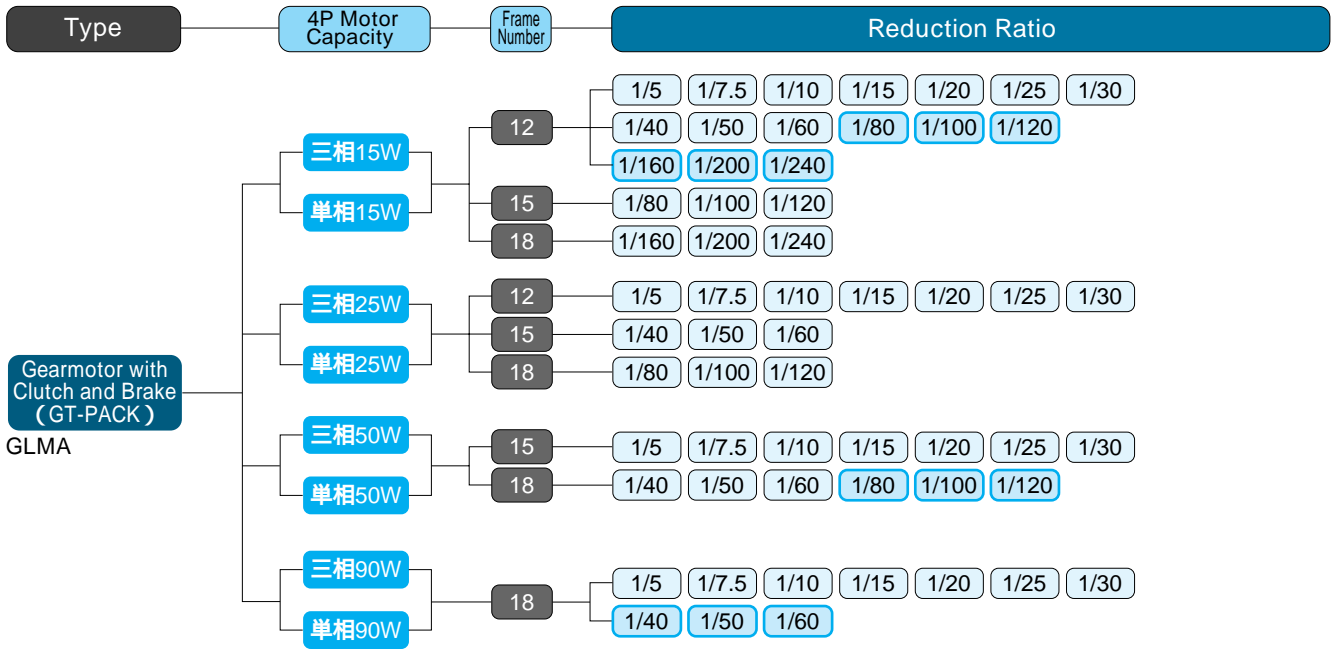
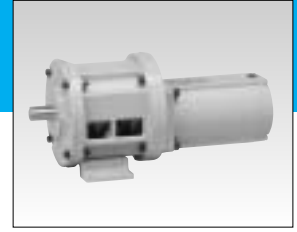


Series Name	G : G-Type( Parallel Shaft )
Classification by Mount Form	L : Foot Mount
Classification by Motor Type	MA : With Clutch/Brake
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 1800 : 1 / 1800
Motor Designation and Capacity or Standard Volatage/ Frequency	T15 : 3-phase 15W
	T25 : 3-phase 25W
	T50 : 3-phase 50W
	T90 : 3-phase 90W
	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S50 : 1-phase 50W
	S90 : 1-phase 90W
Auxiliary Mark	Standard Volatage/Frequency 3-phase: 200V / 50Hz, 200V / 60Hz, 220V / 60Hz 1-phase: 100V / 50Hz, 100V / 60Hz
	Blank : Standard Specs. X : Mark for Additional Specs.
Spec. Designation	Position indicator for lead-wire Refer to the indication mark list in P. E54 for details.

**Note:** Spec. Designation does not appear on the product type designation in the nameplate. It is specified on the additional numbers in the nameplate.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

# Standard Model Lineup



Note 1)    The models enclosed with orange color bold line are low torque type. Special care should be given to the allowable torque in the performance table.

Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option





## Parallel Shaft

# Gearmotor with Clutch and Brake

## Performance Table Dimension diagram

# G


Type

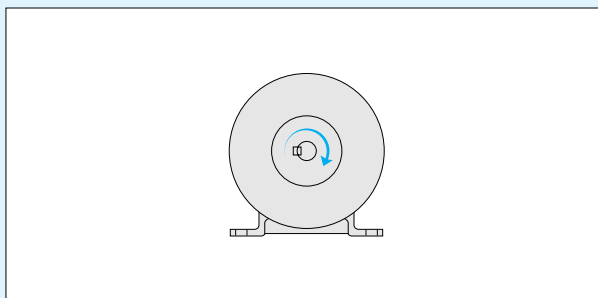
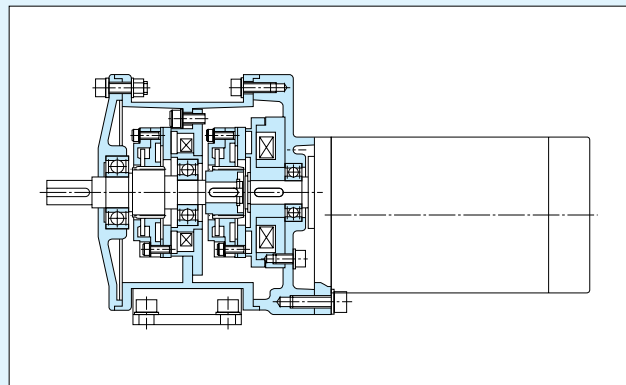
Parallel Shaft

### 3-Phase 200V

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series

# Gearmotor with Clutch and Brake

## G-Type[Parallel Shaft] 3-Phase 15W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	T15	200/200/220	50/60/60	12	0.14/0.13/0.13	1350/1550/1600	E	Totally Enclosed
					15	0.14/0.13/0.13	1350/1550/1600		
					18	0.18/0.17/0.17	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
			50Hz	60Hz	N·m	kgf·m	N	kgf		
3-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A136 Fig.A-345 5kg	
		1/ 7.5	200	240	0.49	0.05	196	20		
		1/ 10	150	180	0.69	0.07	245	25		
		1/ 15	100	120	0.98	0.10	343	35		
		1/ 20	75	90	1.27	0.13	441	45		
		1/ 25	60	72	1.67	0.17	490	50		
		1/ 30	50	60	1.96	0.20	539	55		
		1/ 40	37.5	45	2.65	0.27	539	55		
		1/ 50	30	36	3.33	0.34	539	55		
		1/ 60	25	30	3.92	0.40	539	55		
		* 1/ 80	18.8	22.5	3.92	0.40	539	55		
		* 1/100	15	18	3.92	0.40	539	55		
	* 1/120	12.5	15	3.92	0.40	539	55			
	* 1/160	9.4	11.2	3.92	0.40	539	55			
	* 1/200	7.5	9	3.92	0.40	539	55			
	* 1/240	6.3	7.5	3.92	0.40	539	55			
		15	1/ 80	18.8	22.5	5.00	0.51	735	75	P.A136 Fig.A-346 6kg
			1/100	15	18	6.27	0.64	735	75	
			1/120	12.5	15	7.45	0.76	735	75	
		18	1/160	9.4	11.2	9.80	1.0	882	90	P.A136 Fig.A-347 8kg
	1/200		7.5	9	12.7	1.3	882	90		
		1/240	6.3	7.5	14.7	1.5	882	90		

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A135.

### Foot Mount Type

**Fig.A-345 GLMA-12-5 ~ 240-T15**

[ Round Weight 5 kg ] CAD Data: GLMA-12-T15

**Fig.A-346 GLMA-15-80 ~ 120-T15**

[ Round Weight 6 kg ] CAD Data: GLMA-15-T15

**Fig.A-347 GLMA-18-160 ~ 240-T15**

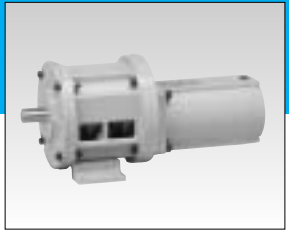
[ Round Weight 8 kg ] CAD Data: GLMA-18-T15

- Model Code  
P.A132
- Lead-Wire Position Mark  
P.E54
- Option  
P.E110



# Gearmotor with Clutch and Brake

## G-Type [ Parallel Shaft ] 3-Phase 25W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	T25	200/200/220	50/60/60	12	0.21/0.19/0.19	1350/1550/1600	E	Totally Enclosed
					15	0.21/0.19/0.19	1350/1550/1600		
					18	0.18/0.17/0.17	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight
			50Hz	60Hz	N•m	kgf•m	N	kgf	
3-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A137 Fig.A-348 5kg
		1/ 7.5	200	240	0.78	0.08	196	20	
		1/ 10	150	180	1.08	0.11	245	25	
		1/ 15	100	120	1.67	0.17	343	35	
		1/ 20	75	90	2.25	0.23	441	45	
		1/ 25	60	72	2.74	0.28	490	50	
	15	1/ 30	50	60	3.33	0.34	539	55	P.A137 Fig.A-349 6kg
		1/ 40	37.5	45	4.41	0.45	588	60	
		1/ 50	30	36	5.49	0.56	637	65	
	18	1/ 60	25	30	6.66	0.68	686	70	P.A137 Fig.A-350 8kg
		1/ 80	18.8	22.5	8.43	0.86	735	75	
		1/100	15	18	10.8	1.1	735	75	
		1/120	12.5	15	12.7	1.3	784	80	

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A135.

### Foot Mount Type

**Fig.A-348 GLMA-12-5 ~ 30-T25**

[ Round Weight 5 kg ] CAD Data: GLMA-12-T25

**Fig.A-349 GLMA-15-40 ~ 60-T25**

[ Round Weight 6 kg ] CAD Data: GLMA-15-T25

**Fig.A-350 GLMA-18-80 ~ 120-T25**

[ Round Weight 8 kg ] CAD Data: GLMA-18-T25

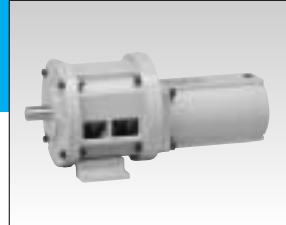
Model Code P.A132    Lead-Wire Position Mark P.E54    Option P.E110

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

GTR Mini Series

# Gearmotor with Clutch and Brake

## G-Type[Parallel Shaft] 3-Phase 50W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	50W	T50	200/200/220	50/60/60	15	0.29/0.27/0.27	1350/1550/1600	E	Totally Enclosed
					18	0.27/0.26/0.26	1350/1550/1600		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight GLMA
			50Hz	60Hz	N•m	kgf•m	N	kgf	
3-phase 50W	15	1/ 5	300	360	1.18	0.12	98	10	P.A138 Fig.A-351 6kg
		1/ 7.5	200	240	1.76	0.18	196	20	
		1/ 10	150	180	2.16	0.22	245	25	
		1/ 15	100	120	3.33	0.34	343	35	
		1/ 20	75	90	4.51	0.46	441	45	
		1/ 25	60	72	5.49	0.56	490	50	
		1/ 30	50	60	6.66	0.68	539	55	
	18	1/ 40	37.5	45	8.82	0.90	784	80	P.A138 Fig.A-352 8kg
		1/ 50	30	36	10.8	1.1	882	90	
		1/ 60	25	30	12.7	1.3	882	90	
		* 1/ 80	18.8	22.5	14.7	1.5	882	90	
		* 1/100	15	18	14.7	1.5	882	90	
		* 1/120	12.5	15	14.7	1.5	882	90	

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A135.

### Foot Mount Type

**Fig.A-351 GLMA-15-5 ~ 30-T50**

[ Round Weight 6 kg ]      CAD Data: GLMA-15-T50

**Fig.A-352 GLMA-18-40 ~ 120-T50**

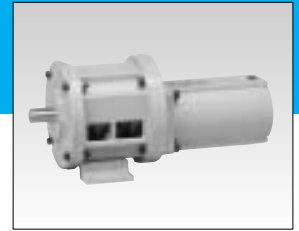
[ Round Weight 8 kg ]      CAD Data: GLMA-18-T50

Parallel Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 Water-resistant Gearmotor with Brake  
 Speed Control Gearmotor  
 Gearmotor with Clutch/Brake  
 GT-Type Gearmotor with Brake  
 Right Angle Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 With Water-resistant Brake Motor  
 Speed Control Gearmotor  
 Concentric Hollow Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 With Water-resistant Brake Motor  
 Speed Control Gearmotor  
 Parallel Shaft GTR-L Series Performance Table/Dimension  
 Reversible Gearmotor with Brake  
 Speed Control Gearmotor with Brake  
 Technical Information  
 Standard Motors  
 Cautions for Safety  
 Option

Model Code P.A132      Lead-Wire Position Mark P.E54      Option P.E110

# Gearmotor with Clutch and Brake

## G-Type [ Parallel Shaft ] 3-Phase 90W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	T90	200/200/220	50/60/60	18	0.51/0.48/0.48	1350/1550/1550	E	Totally Enclosed

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight
			50Hz	60Hz	N•m	kgf•m	N	kgf	
3-phase 90W	18	1/ 5	300	360	2.06	0.21	147	15	P.A139 Fig.A-353 8kg
		1/ 7.5	200	240	3.14	0.32	245	25	
		1/ 10	150	180	4.12	0.42	343	35	
		1/ 15	100	120	6.17	0.63	441	45	
		1/ 20	75	90	8.33	0.85	539	55	
		1/ 25	60	72	10.8	1.1	588	60	
		1/ 30	50	60	12.7	1.3	686	70	
		* 1/ 40	37.5	45	14.7	1.5	882	90	
		* 1/ 50	30	36	14.7	1.5	882	90	
		* 1/ 60	25	30	14.7	1.5	882	90	

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A135.

### Foot Mount Type

**Fig.A-353 GLMA-18-5 ~ 60-T90**

[ Round Weight 8 kg ]      CAD Data: GLMA-18-T90

Model Code P.A132      Lead-Wire Position Mark P.E54      Option P.E110





## Parallel Shaft

# Gearmotor with Clutch and Brake

## Performance Table Dimension diagram


# G Type

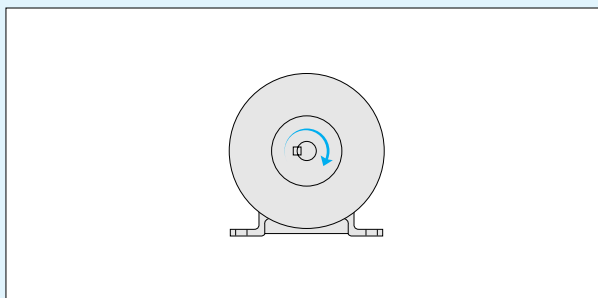
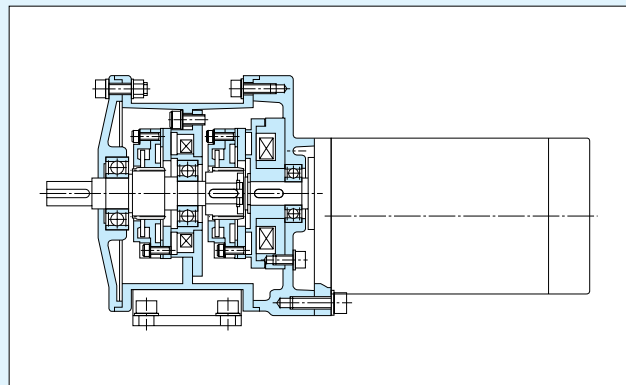
Parallel Shaft

### 1-Phase 100V

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on [page E30](#), the shaft rotates clock wise when viewing from output side. (Refer to the diagram shown below.)



GTR Mini Series

# Gearmotor with Clutch and Brake

## G-Type[Parallel Shaft] 1-Phase 15W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	S15	100/100	50/60	12	0.39/0.35	1350/1650	5	E	Totally Enclosed
					15	0.39/0.35	1350/1650	5		
					18	0.44/0.45	1350/1650	5		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight
			50Hz	60Hz	N·m	kgf·m	N	kgf	
1-phase 15W	12	1/ 5	300	360	0.29	0.03	98	10	P.A142 Fig.A-354 5kg
		1/ 7.5	200	240	0.49	0.05	196	20	
		1/ 10	150	180	0.69	0.07	245	25	
		1/ 15	100	120	0.98	0.10	343	35	
		1/ 20	75	90	1.27	0.13	441	45	
		1/ 25	60	72	1.67	0.17	490	50	
		1/ 30	50	60	1.96	0.20	539	55	
		1/ 40	37.5	45	2.65	0.27	539	55	
		1/ 50	30	36	3.33	0.34	539	55	
		1/ 60	25	30	3.92	0.40	539	55	
		* 1/ 80	18.8	22.5	3.92	0.40	539	55	
		* 1/100	15	18	3.92	0.40	539	55	
		* 1/120	12.5	15	3.92	0.40	539	55	
		* 1/160	9.4	11.2	3.92	0.40	539	55	
	* 1/200	7.5	9	3.92	0.40	539	55		
	* 1/240	6.3	7.5	3.92	0.40	539	55		
	15	1/ 80	18.8	22.5	5.00	0.51	735	75	P.A142 Fig.A-355 6kg
		1/100	15	18	6.27	0.64	735	75	
		1/120	12.5	15	7.45	0.76	735	75	
		1/160	9.4	11.2	9.80	1.0	882	90	
18	1/200	7.5	9	12.7	1.3	882	90	P.A142 Fig.A-356 8kg	
	1/240	6.3	7.5	14.7	1.5	882	90		

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A141.

### Foot Mount Type

**Fig.A-354 GLMA-12-5 ~ 240-S15**

[ Round Weight 5 kg ] CAD Data: GLMA-12-S15

**Fig.A-355 GLMA-15-80 ~ 120-S15**

[ Round Weight 6 kg ] CAD Data: GLMA-15-S15

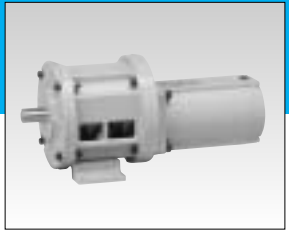
**Fig.A-356 GLMA-18-160 ~ 240-S15**

[ Round Weight 8 kg ] CAD Data: GLMA-18-S15

- Model Code P.A132
- Lead-Wire Position Mark P.E54
- Option P.E110

# Gearmotor with Clutch and Brake

## G-Type [ Parallel Shaft ] 1-Phase 25W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	S25	100/100	50/60	12	0.48/0.48	1350/1600	7	E	Totally Enclosed
					15	0.48/0.48	1350/1600	7		
					18	0.44/0.45	1350/1650	7		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight
			50Hz	60Hz	N·m	kgf·m	N	kgf	
1-phase 25W	12	1/ 5	300	360	0.59	0.06	98	10	P.A143 Fig.A-357 5kg
		1/ 7.5	200	240	0.78	0.08	196	20	
		1/ 10	150	180	1.08	0.11	245	25	
		1/ 15	100	120	1.67	0.17	343	35	
		1/ 20	75	90	2.25	0.23	441	45	
		1/ 25	60	72	2.74	0.28	490	50	
	15	1/ 30	50	60	3.33	0.34	539	55	P.A143 Fig.A-358 6kg
		1/ 40	37.5	45	4.41	0.45	588	60	
		1/ 50	30	36	5.49	0.56	637	65	
	18	1/ 60	25	30	6.66	0.68	686	70	P.A143 Fig.A-359 8kg
		1/ 80	18.8	22.5	8.43	0.86	735	75	
		1/100	15	18	10.8	1.1	735	75	
		1/120	12.5	15	12.7	1.3	784	80	

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
Be sure to read the cautions stated on Page A141.

### Foot Mount Type

**Fig.A-357 GLMA-12-5 ~ 30-S25**

[ Round Weight 5 kg ] CAD Data: GLMA-12-S25

**Fig.A-358 GLMA-15-40 ~ 60-S25**

[ Round Weight 6 kg ] CAD Data: GLMA-15-S25

**Fig.A-359 GLMA-18-80 ~ 120-S25**

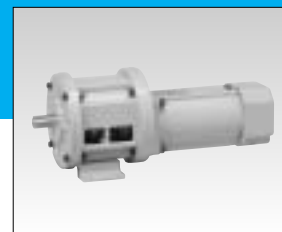
[ Round Weight 8 kg ] CAD Data: GLMA-18-S25

Model Code P.A132      Lead-Wire Position Mark P.E54      Option P.E110

GTR Mini Series

# Gearmotor with Clutch and Brake

## G-Type[Parallel Shaft] 1-Phase 50W

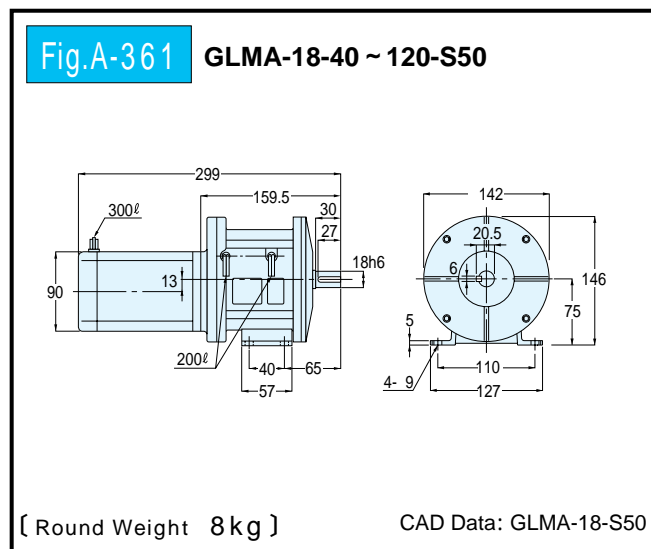
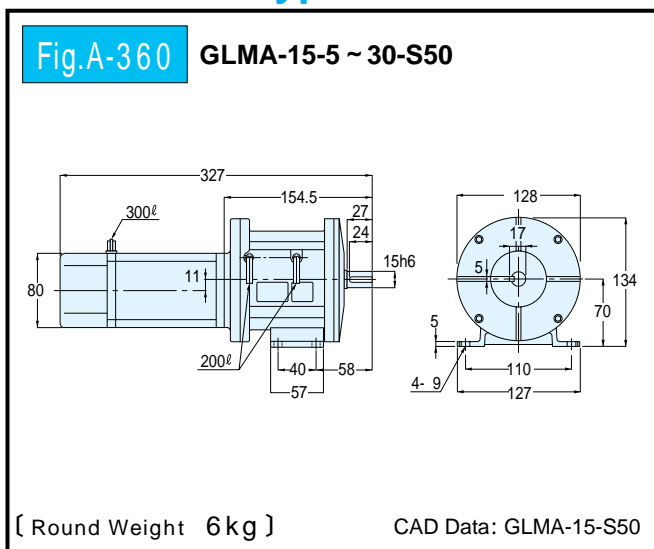


Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	50W	S50	100/100	50/60	15	0.67/0.80	1400/1650	12	E	Totally Enclosed or Totally Enclosed Fan-cooled
					18	0.61/0.66	1350/1650	10		

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight GLMA
			50Hz	60Hz	N·m	kgf·m	N	kgf	
1-phase 50W	15	1/ 5	300	360	1.18	0.12	98	10	P.A144 Fig.A-360 6kg
		1/ 7.5	200	240	1.76	0.18	196	20	
		1/ 10	150	180	2.16	0.22	245	25	
		1/ 15	100	120	3.33	0.34	343	35	
		1/ 20	75	90	4.51	0.46	441	45	
		1/ 25	60	72	5.49	0.56	490	50	
		1/ 30	50	60	6.66	0.68	539	55	
	18	1/ 40	37.5	45	8.82	0.90	784	80	P.A144 Fig.A-361 8kg
		1/ 50	30	36	10.8	1.1	882	90	
		1/ 60	25	30	12.7	1.3	882	90	
		* 1/ 80	18.8	22.5	14.7	1.5	882	90	
		* 1/100	15	18	14.7	1.5	882	90	
		* 1/120	12.5	15	14.7	1.5	882	90	

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A141.

### Foot Mount Type



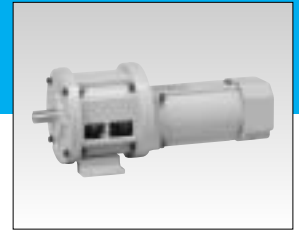
- Model Code  
P.A132
- Lead-Wire Position Mark  
P.E54
- Option  
P.E110

Parallel Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 Water-resistant Gearmotor with Brake  
 Speed Control Gearmotor  
 Gearmotor with Clutch/Brake  
 GT-Type Gearmotor with Brake  
 Right Angle Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 With Water-resistant Brake Motor  
 Speed Control Gearmotor  
 Concentric Hollow Shaft Performance Table/Dimension  
 Gearmotor with Brake  
 With Water-resistant Brake Motor  
 Speed Control Gearmotor  
 Parallel Shaft GTR-L Series Performance Table/Dimension  
 Reversible Gearmotor with Brake  
 Speed Control Gearmotor with Brake  
 Technical Information  
 Standard Motors  
 Cautions for Safety  
 Option



# Gearmotor with Clutch and Brake

## G-Type[ Parallel Shaft ] 1-Phase 90W

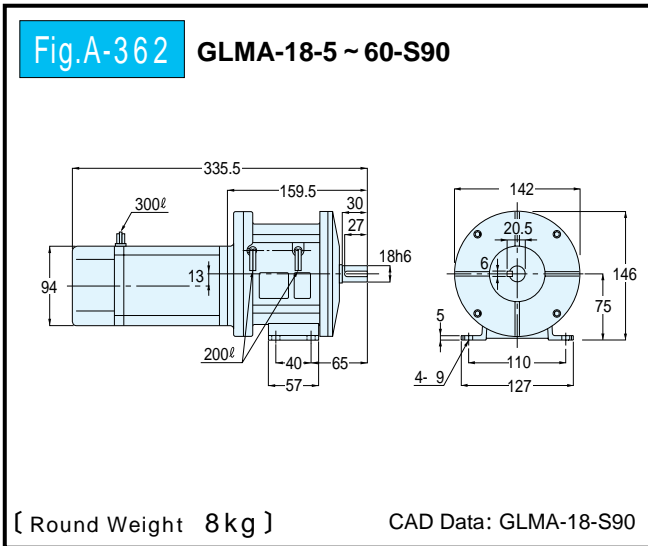


Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Frame No.	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	90W	S90	100/100	50/60	18	1.3/1.4	1350/1600	20	E	Totally Enclosed Fan-cooled

Motor Capacity	Frame No.	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque		Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight
			50Hz	60Hz	N•m	kgf•m	N	kgf	
1-phase 90W	18	1/ 5	300	360	2.06	0.21	147	15	P.A145 Fig.A-362 8kg
		1/ 7.5	200	240	3.14	0.32	245	25	
		1/ 10	150	180	4.12	0.42	343	35	
		1/ 15	100	120	6.17	0.63	441	45	
		1/ 20	75	90	8.33	0.85	539	55	
		1/ 25	60	72	10.8	1.1	588	60	
		1/ 30	50	60	12.7	1.3	686	70	
		* 1/ 40	37.5	45	14.7	1.5	882	90	
		* 1/ 50	30	36	14.7	1.5	882	90	
		* 1/ 60	25	30	14.7	1.5	882	90	

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A141.

### Foot Mount Type



Model Code P.A132	Lead-Wire Position Mark P.E54	Option P.E110
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# Parallel Shaft **GT-Type** Gearmotor Gearmotor with Brake

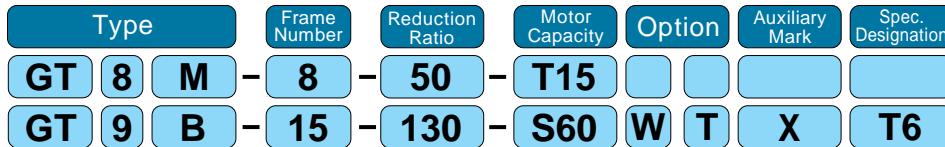
## Model • Type Designation Standard Model Lineup

**GT**  
Type  
Parallel Shaft

Motor Part	Number of phase	3-Phase	1-Phase
	Capacity	15W ~ 60W	15W ~ 60W
	Power Source	3 Rated Power Source 200V 50/60Hz, 220V/60Hz	100V 50/60Hz
	Insulation Classification	Class E	Class E
	Starting Method	Direct start	Capacitor Start
	Protective cooling Method	Totally Enclosed non-ventilated or Totally Enclosed fan-cooled	
	Number of Pole	4	
Rating	Continuous Rating		
Speed Reduction Part	Reduction Method	Helical gear	
	Lubrication	Grease Lubrication(Maintenance Free)	
	Output Shaft	New JIS Key(JIS 1301-1976 class)	
	Output Shaft Material	S43C	
Case Material	Aluminium die-cast		
Ambient Conditions	Ambient Temperature	- 10 ~ 40	
	Ambient Humidity	85% max.(without any dew condensation)	
	Altitude	1,000m max.	
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.	
	Installation Location	Indoors	
Painting	Painting Method	Anion painting, Acrylic paint	
	Painting Color	Grey(Mansel code: 9B6/0.5)	
Mounting Direction	No restriction in the mounting angle.(horizontally, vertically or heeling angle)		

# Model and Type Designation GT-Type(Parallel Shaft)

GT-Type gearmotors are classified by codes as shown below.  
Specify these codes in your inquiry and order.



Series Name	GT : GT-Type( Parallel Shaft )
Classification by Mount Form	8 : Flange Dimension 80
	9 : Flange Dimension 90
Classification by Motor Type	M : With Motor
	B : With Brake Motor
Frame No. and Diameter of Output shaft	Output Shaft Diameter
Reduction Ratio	5 : 1 / 5 ~ 200 : 1 / 200
Motor Designation and Capacity	T15 : 3-phase 15W
	T25 : 3-phase 25W
	T40 : 3-phase 40W
	T60 : 3-phase 60W
	S15 : 1-phase 15W
	S25 : 1-phase 25W
	S40 : 1-phase 40W
S60 : 1-phase 60W	
Option	Blank : Standard Specifications 3-phase: 200V / 50Hz, 200V / 60Hz, 220V / 60Hz 1-phase: 100V / 50Hz, 100V / 60Hz
	W : High Voltage( 1-phase only ) 1-phase: 200V / 50Hz, 200V / 60Hz
	T : T-Type Terminal Box
	K : K-Type Terminal Box
Auxiliary Mark	C : Rectifier built-in terminal box for brake motor
	Blank : Standard Specs. X : Mark for Additional Specs.
Spec. Designation	Position indicator for lead-wire, terminal box Refer to the indication mark list in P. E54 for details.
<small>Note: Spec. Designation does not appear on the product type designation in the nameplate. It is specified on the additional numbers in the nameplate.</small>	

Parallel Shaft Performance Table/ Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch /Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Performance Table/ Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/ Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

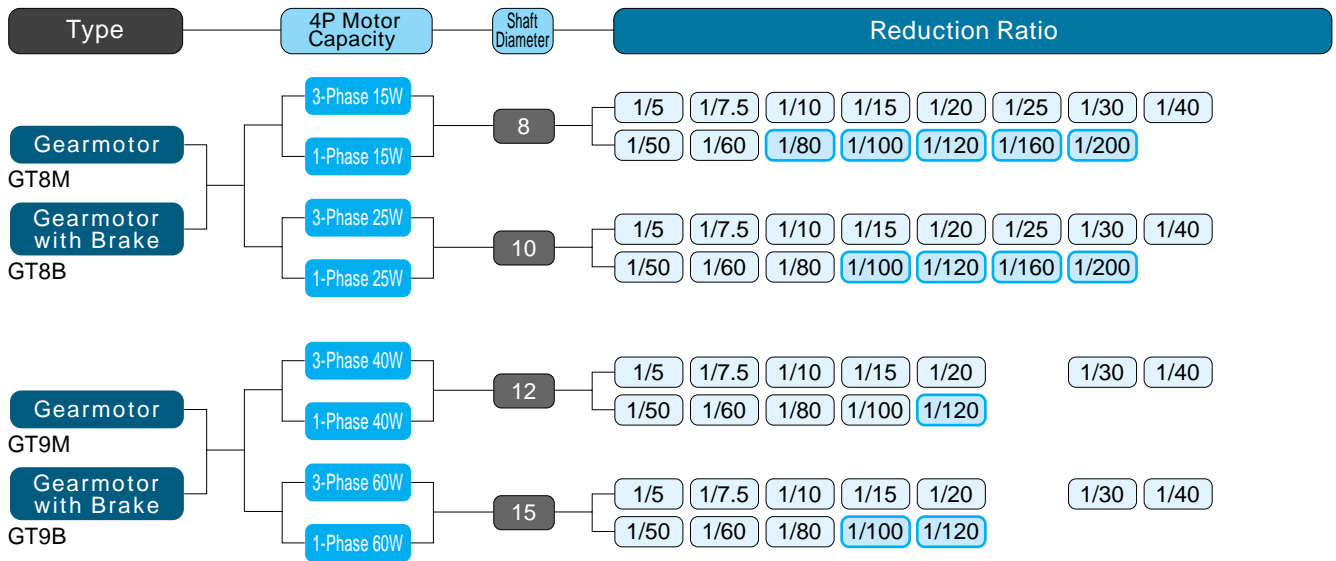
Technical Information

Standard Motors

Cautions for Safety

Option

# Standard Model Lineup



Note 1)    The models enclosed with orange color bold line are low torque type. Special care should be given to the allowable torque in the performance table.

- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch/Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option





# Parallel Shaft **GT-Type** Gearmotor Gearmotor with Brake

## Performance Table Dimension diagram


**GT**  
Type  
Parallel Shaft

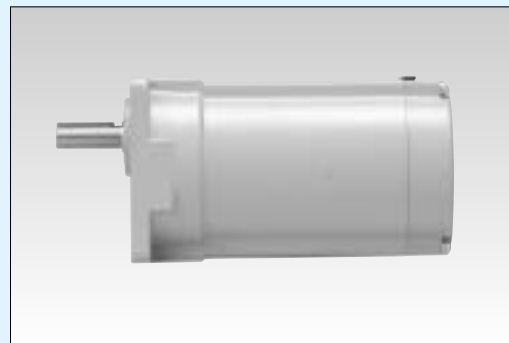
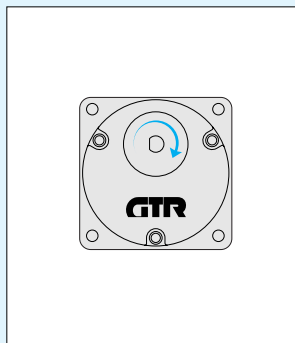
Gearmotors with the flange mounting dimension compatible with the products of other domestic Japanese manufacturers.

### 3-Phase

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clockwise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Gearmotor Gearmotor with Brake



## GT-Type( Parallel Shaft ) 3-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	T15	200/200/220	50/60/60	0.17/0.15/0.15	1390/1660/1680	E	Totally Enclosed or Totally Enclosed Fan-cooled

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
				N·m	kgf·m	N·m	kgf·m						
3-phase 15W	80	8	1/ 5	300	360	0.49	0.05	0.39	0.04	343	35	P.A152 Fig.A-363 2kg	P.A152 Fig.A-364 2.5kg
			1/ 7.5	200	240	0.69	0.07	0.59	0.06	343	35		
			1/ 10	150	180	0.88	0.09	0.78	0.08	343	35		
			1/ 15	100	120	1.37	0.14	1.18	0.12	343	35		
			1/ 20	75	90	1.86	0.19	1.47	0.15	343	35		
			1/ 25	60	72	2.25	0.23	1.86	0.19	343	35		
			1/ 30	50	60	2.74	0.28	2.25	0.23	343	35		
			1/ 40	37.5	45	3.72	0.38	3.04	0.31	343	35		
			1/ 50	30	36	4.61	0.47	3.82	0.39	343	35		
			1/ 60	25	30	5.49	0.56	4.51	0.46	343	35		
			* 1/ 80	18.8	22.5	6.86	0.7	6.08	0.62	343	35		
			* 1/100	15	18	6.86	0.7	6.86	0.7	343	35		
			* 1/120	12.5	15	6.86	0.7	6.86	0.7	343	35		
* 1/160	9.4	11.3	6.86	0.7	6.86	0.7	343	35					
* 1/200	7.5	9	6.86	0.7	6.86	0.7	343	35					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A151.

### Gearmotor

### Gearmotor with Brake

**Fig.A-363 GT8M-8-5 ~ 200-T15**

[ Round Weight 2 kg ]      CAD Data: GT8M-8-T15

**Fig.A-364 GT8B-8-5 ~ 200-T15**

[ Round Weight 2.5 kg ]      CAD Data: GT8B-8-T15

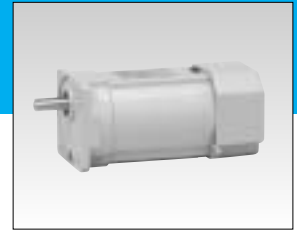
**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

- Model Code**  
P.A148
- Lead-Wire/Terminal Box Position Mark**  
P.E54
- Option**  
P.E110



# GTR Mini Series Gearmotor Gearmotor with Brake

## GT-Type[Parallel Shaft] 3-Phase 25W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	T25	200/200/220	50/60/60	0.24/0.22/0.22	1380/1640/1680	E	Totally Enclosed or Totally Enclosed Fan-cooled

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
				N·m	kgf·m	N·m	kgf·m						
3-phase 25W	80	10	1/ 5	300	360	0.78	0.08	0.59	0.06	392	40	P.A153 Fig.A-365 2kg	P.A153 Fig.A-366 2.5kg
			1/ 7.5	200	240	1.18	0.12	0.98	0.10	441	45		
			1/ 10	150	180	1.57	0.16	1.27	0.13	490	50		
			1/ 15	100	120	2.25	0.23	1.86	0.19	588	60		
			1/ 20	75	90	3.04	0.31	2.55	0.26	588	60		
			1/ 25	60	72	3.82	0.39	3.14	0.32	588	60		
			1/ 30	50	60	4.61	0.47	3.82	0.39	588	60		
			1/ 40	37.5	45	6.17	0.63	5.10	0.52	588	60		
			1/ 50	30	36	7.64	0.78	6.27	0.64	588	60		
			1/ 60	25	30	9.21	0.94	7.55	0.77	588	60		
			*1/100	15	18	14.7	1.5	12.7	1.3	588	60		
			*1/120	12.5	15	14.7	1.5	14.7	1.5	588	60		
			*1/160	9.4	11.3	14.7	1.5	14.7	1.5	588	60		
*1/200	7.5	9	14.7	1.5	14.7	1.5	588	60					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A151.

### Gearmotor

### Gearmotor with Brake

**Fig.A-365 GT8M-10-5 ~ 200-T25**

[ Round Weight 2 kg ] CAD Data: GT8M-10-T25

**Fig.A-365 GT8B-10-5 ~ 200-T25**

[ Round Weight 2.5 kg ] CAD Data: GT8B-10-T25

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

<b>Model Code</b> P.A148	<b>Lead-Wire/Terminal Box Position Mark</b> P.E54	<b>Option</b> P.E110
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Parallel Shaft Performance Table/  
Dimension

Gearmotor with Brake

Water-resistant Gearmotor with Brake

Speed Control Gearmotor

Gearmotor with Clutch/Brake

GT-Type Gearmotor with Brake

Right Angle Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/  
Dimension

Gearmotor with Brake

With Water-resistant Brake Motor

Speed Control Gearmotor

Parallel Shaft GTR-L Series Performance Table/  
Dimension

Reversible Gearmotor with Brake

Speed Control Gearmotor with Brake

Technical Information

Standard Motors

Cautions for Safety

Option

# Gearmotor

## Gearmotor with Brake



### GT-Type [ Parallel Shaft ] 3-Phase 40W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	T40	200/200/220	50/60/60	0.35/0.29/0.13	1350/1620/1660	E	Totally Enclosed or Totally Enclosed Fan-cooled

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
				N·m	kgf·m	N·m	kgf·m						
3-phase 40W	90	12	1/ 5	300	360	1.18	0.12	0.98	0.1	441	45	P.A154 Fig.A-367 3kg	P.A154 Fig.A-368 3.5kg
			1/ 7.5	200	240	1.86	0.19	1.47	0.15	490	50		
			1/ 10	150	180	2.45	0.25	2.06	0.21	539	55		
			1/ 15	100	120	3.72	0.38	3.04	0.31	588	60		
			1/ 20	75	90	4.90	0.5	4.02	0.41	637	65		
			1/ 30	50	60	7.35	0.75	6.08	0.62	686	70		
			1/ 40	37.5	45	9.80	1.0	8.04	0.82	735	75		
			1/ 50	30	36	11.8	1.2	9.80	1.0	735	75		
			1/ 60	25	30	14.7	1.5	11.8	1.2	735	75		
			1/ 80	18.8	22.5	19.6	2.0	15.7	1.6	735	75		
			* 1/120	12.5	15	24.5	2.5	24.5	2.5	735	75		

Note) The allowable O.H.L indicated are the values in the central position of the output shaft.  
 The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
 Be sure to read the cautions stated on Page A151.

### Gearmotor

**Fig.A-367 GT9M-12-5 ~ 120-T40**

[ Round Weight 3kg ] CAD Data: GT9M-12-T40

### Gearmotor with Brake

**Fig.A-368 GT9B-12-5 ~ 120-T40**

[ Round Weight 3.5kg ] CAD Data: GT9B-12-T40

Note) Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

- Model Code**  
P.A148
- Lead-Wire/Terminal Box Position Mark**  
P.E54
- Option**  
P.E110

# Gearmotor Gearmotor with Brake

## GT-Type [Parallel Shaft] 3-Phase 60W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	T60	200/200/220	50/60/60	0.45/0.38/0.40	1350/1620/1660	E	Totally Enclosed or Totally Enclosed Fan-cooled

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L.		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
				N·m	kgf·m	N·m	kgf·m						
3-phase 60W	90	15	1/ 5	300	360	1.86	0.19	1.47	0.15	490	50	P.A155 Fig.A-369 3kg	P.A155 Fig.A370 3.5kg
			1/ 7.5	200	240	2.74	0.28	2.25	0.23	490	50		
			1/ 10	150	180	3.72	0.38	3.04	0.31	539	55		
			1/ 15	100	120	5.49	0.56	4.51	0.46	588	60		
			1/ 20	75	90	7.35	0.75	6.08	0.62	637	65		
			1/ 30	50	60	10.8	1.1	9.11	0.93	686	70		
			1/ 40	37.5	45	14.7	1.5	11.8	1.2	735	75		
			1/ 50	30	36	18.6	1.9	14.7	1.5	735	75		
			1/ 60	25	30	21.6	2.2	18.6	1.9	735	75		
			* 1/100	15	18	29.4	3.0	29.4	3.0	735	75		
			* 1/120	12.5	15	29.4	3.0	29.4	3.0	735	75		

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A151.

### Gearmotor

**Fig.A-369 GT9M-15-5 ~ 120-T60**

[ Round Weight 3 kg ] CAD Data: GT9M-15-T60

### Gearmotor with Brake

**Fig.A-370 GT9B-15-5 ~ 120-T60**

[ Round Weight 3.5 kg ] CAD Data: GT9B-15-T60

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A148	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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# Parallel Shaft **GT-Type** Gearmotor Gearmotor with Brake

## Performance Table Dimension diagram


**GT**  
Type  
Parallel Shaft

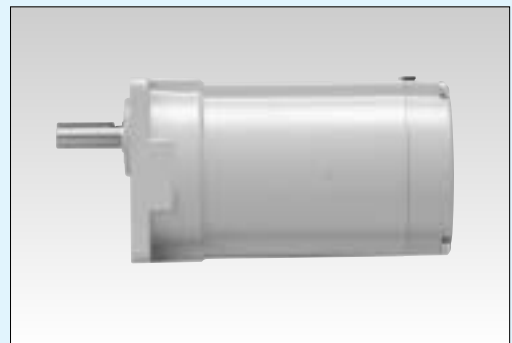
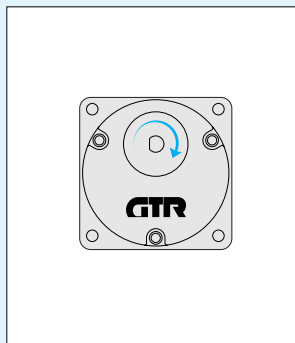
Gearmotors with the flange mounting dimension compatible with the products of other domestic Japanese manufacturers.

### 1-Phase

#### 【Remarks】

The output rotation speed is the value corresponds to the motor synchronous speed and the nominal reduction ratio.

The Shaded areas  in the performance table shows that in case gearmotors are wired (forward rotation) according to the diagram shown on page E30, the shaft rotates clockwise when viewing from output side. (Refer to the diagram shown below.)



# GTR Mini Series Gearmotor Gearmotor with Brake



## GT-Type [ Parallel Shaft ] 1-Phase 15W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	15W	S15	100/100	50/60	0.40/0.40	1380/1690	7	E	Totally Enclosed or Totally Enclosed Fan-cooled
Double Voltage (Continuous Rated 4 Poles)		S15W	200/200	50/60	0.23/0.22	1380/1690	1.7		

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
						N·m	kgf·m	N·m	kgf·m				
1-phase 15W	80	8	1/ 5	300	360	0.49	0.05	0.39	0.04	343	35	P.A158 Fig.A-371 2kg	P.A158 Fig.A-372 2.5kg
			1/ 7.5	200	240	0.69	0.07	0.59	0.06	343	35		
			1/ 10	150	180	0.88	0.09	0.78	0.08	343	35		
			1/ 15	100	120	1.37	0.14	1.18	0.12	343	35		
			1/ 20	75	90	1.86	0.19	1.47	0.15	343	35		
			1/ 25	60	72	2.25	0.23	1.86	0.19	343	35		
			1/ 30	50	60	2.74	0.28	2.25	0.23	343	35		
			1/ 40	37.5	45	3.72	0.38	3.04	0.31	343	35		
			1/ 50	30	36	4.61	0.47	3.82	0.39	343	35		
			1/ 60	25	30	5.49	0.56	4.51	0.46	343	35		
			* 1/ 80	18.8	22.5	6.86	0.7	6.08	0.62	343	35		
			* 1/100	15	18	6.86	0.7	6.86	0.7	343	35		
			* 1/120	12.5	15	6.86	0.7	6.86	0.7	343	35		
			* 1/160	9.4	11.3	6.86	0.7	6.86	0.7	343	35		
* 1/200	7.5	9	6.86	0.7	6.86	0.7	343	35					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A157.

### Gearmotor

**Fig.A-371** GT8M-8-5 ~ 200-S15  
GT8M-8-5 ~ 200-S15W

[ Round Weight 2 kg ] CAD Data: GT8M-8-S15  
GT8M-8-S15W

### Gearmotor with Brake

**Fig.A-372** GT8B-8-5 ~ 200-S15  
GT8B-8-5 ~ 200-S15W

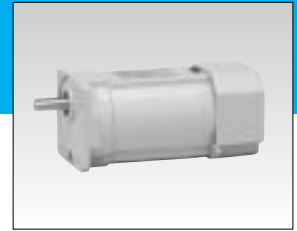
[ Round Weight 2.5 kg ] CAD Data: GT8B-8-S15  
GT8B-8-S15W

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

- Model Code**  
P.A148
- Lead-Wire/Terminal Box  
Position Mark**  
P.E54
- Option**  
P.E110

# GTR Mini Series Gearmotor Gearmotor with Brake

## GT-Type [Parallel Shaft] 1-Phase 25W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	25W	S25	100/100	50/60	0.55/0.54	1370/1680	9	E	Totally Enclosed or Totally Enclosed Fan-cooled
Double Voltage (Continuous Rated 4 Poles)		S25W	200/200	50/60	0.30/0.27	1380/1680	2.2		

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
						N·m	kgf·m	N·m	kgf·m				
1-phase 25W	80	10	1/ 5	300	360	0.78	0.08	0.59	0.06	392	40	P.A159 Fig.A-373 2kg	P.A159 Fig.A-374 2.5kg
			1/ 7.5	200	240	1.18	0.12	0.98	0.10	441	45		
			1/ 10	150	180	1.57	0.16	1.27	0.13	490	50		
			1/ 15	100	120	2.25	0.23	1.86	0.19	588	60		
			1/ 20	75	90	3.04	0.31	2.55	0.26	588	60		
			1/ 25	60	72	3.82	0.39	3.14	0.32	588	60		
			1/ 30	50	60	4.61	0.47	3.82	0.39	588	60		
			1/ 40	37.5	45	6.17	0.63	5.10	0.52	588	60		
			1/ 50	30	36	7.64	0.78	6.27	0.64	588	60		
			1/ 60	25	30	9.21	0.94	7.55	0.77	588	60		
			1/ 80	18.8	22.5	11.8	1.2	9.80	1.0	588	60		
			* 1/100	15	18	14.7	1.5	12.7	1.3	588	60		
			* 1/120	12.5	15	14.7	1.5	14.7	1.5	588	60		
			* 1/160	9.4	11.3	14.7	1.5	14.7	1.5	588	60		
* 1/200	7.5	9	14.7	1.5	14.7	1.5	588	60					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A157.

### Gearmotor

### Gearmotor with Brake

**Fig.A-373** GT8M-10-5 ~ 200-S25  
GT8M-10-5 ~ 200-S25W

[ Round Weight 2 kg ] CAD Data: GT8M-10-S25  
GT8M-10-S25W

**Fig.A-374** GT8B-10-5 ~ 200-S25  
GT8B-10-5 ~ 200-S25W

[ Round Weight 2.5 kg ] CAD Data: GT8B-10-S25  
GT8B-10-S25W

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A148	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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- Parallel Shaft Performance Table/ Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/ Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/ Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option

# GTR Mini Series Gearmotor Gearmotor with Brake



## GT-Type [ Parallel Shaft ] 1-Phase 40W

Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	40W	S40	100/100	50/60	0.78/0.76	1390/1690	13	E	Totally Enclosed or Totally Enclosed Fan-cooled
Double Voltage (Continuous Rated 4 Poles)		S40W	200/200	50/60	0.38/0.37	1400/1700	3.7		

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
						N·m	kgf·m	N·m	kgf·m				
1-phase 40W	90	12	1/ 5	300	360	1.18	0.12	0.98	0.1	441	45	P.A160 Fig.A-375 3kg	P.A160 Fig.A-376 3.5kg
			1/ 7.5	200	240	1.86	0.19	1.47	0.15	490	50		
			1/ 10	150	180	2.45	0.25	2.06	0.21	539	55		
			1/ 15	100	120	3.72	0.38	3.04	0.31	588	60		
			1/ 20	75	90	4.90	0.5	4.02	0.41	637	65		
			1/ 30	50	60	7.35	0.75	6.08	0.62	686	70		
			1/ 40	37.5	45	9.80	1.0	8.04	0.82	735	75		
			1/ 50	30	36	11.8	1.2	9.80	1.0	735	75		
			1/ 60	25	30	14.7	1.5	11.8	1.2	735	75		
			1/ 80	18.8	22.5	19.6	2.0	15.7	1.6	735	75		
* 1/120	12.5	15	24.5	2.5	20.6	2.1	735	75					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A157.

### Gearmotor

### Gearmotor with Brake

**Fig.A-375** GT9M-12-5 ~ 120-S40  
GT9M-12-5 ~ 120-S40W

[ Round Weight 3 kg ] CAD Data: GT9M-12-S40  
GT9M-12-S40W

**Fig.A-376** GT9B-12-5 ~ 120-S40  
GT9B-12-5 ~ 120-S40W

[ Round Weight 3.5 kg ] CAD Data: GT9B-12-S40  
GT9B-12-S40W

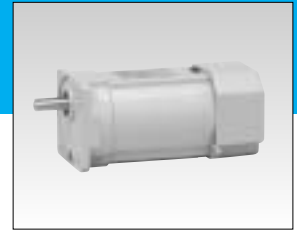
**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A148	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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# GTR Mini Series Gearmotor Gearmotor with Brake

## GT-Type [Parallel Shaft] 1-Phase 60W



Motor Specs.	Capacity	Motor Capacity Designation	Voltage (V)	Frequency (Hz)	Rated Current (A)	Rated Rotation Speed (rpm)	Capacitor (μF)	Insulation Classification	Protective system
Standard Voltage (Continuous Rated 4 Poles)	60W	S60	100/100	50/60	1.20/1.18	1370/1680	20	E	Totally Enclosed or Totally Enclosed Fan-cooled
Double Voltage (Continuous Rated 4 Poles)		S60W	200/200	50/60	0.60/0.57	1370/1670	5		

Motor Capacity	Size	Diameter of Output shaft	Reduction Ratio	Output Shaft Rotation Speed (rpm)		Output Shaft Allowable Torque				Output Shaft Allowable O.H.L		Page, Diagram No. of the Outer Dimension Diagram, Round Weight	
				50Hz	60Hz	50Hz		60Hz		N	kgf	Gearmotor	Gearmotor with Brake
				N·m	kgf·m	N·m	kgf·m						
1-phase 60W	90	15	1/ 5	300	360	1.86	0.19	1.47	0.15	490	50	P.A161 Fig.A-377 3kg	P.A161 Fig.A378 3.5kg
			1/ 7.5	200	240	2.74	0.28	2.25	0.23	490	50		
			1/ 10	150	180	3.72	0.38	3.04	0.31	539	55		
			1/ 15	100	120	5.49	0.56	4.51	0.46	588	60		
			1/ 20	75	90	7.35	0.75	6.08	0.62	637	65		
			1/ 30	50	60	10.8	1.1	9.11	0.93	686	70		
			1/ 40	37.5	45	14.7	1.5	11.8	1.2	735	75		
			1/ 50	30	36	18.6	1.9	14.7	1.5	735	75		
			1/ 60	25	30	21.6	2.2	18.6	1.9	735	75		
			1/ 80	18.8	22.5	29.4	3.0	24.5	2.5	735	75		
			* 1/100	15	18	29.4	3.0	29.4	3.0	735	75		
* 1/120	12.5	15	29.4	3.0	29.4	3.0	735	75					

**Note)** The allowable O.H.L indicated are the values in the central position of the output shaft.  
The models marked with \* are low torque type. Be sure to refer to the allowable torque rating in the performance table.  
Be sure to read the cautions stated on Page A157.

### Gearmotor

### Gearmotor with Brake

**Fig.A-377** GT9M-15-5 ~ 120-S60  
GT9M-15-5 ~ 120-S60W

[ Round Weight 3 kg ] CAD Data: GT9M-15-S60  
GT9M-15-S60W

**Fig.A-378** GT9B-15-5 ~ 120-S60  
GT9B-15-5 ~ 120-S60W

[ Round Weight 3.5 kg ] CAD Data: GT9B-15-S60  
GT9B-15-S60W

**Note)** Since the figure in the parenthesis is the one with black scale, add more than 0.5mm to that figure for the diameter of the connecting hole.

Model Code P.A148	Lead-Wire/Terminal Box Position Mark P.E54	Option P.E110
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- Parallel Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant Gearmotor with Brake
- Speed Control Gearmotor
- Gearmotor with Clutch /Brake
- GT-Type Gearmotor with Brake
- Right Angle Shaft Performance Table/Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table Dimension
- Gearmotor with Brake
- With Water-resistant Brake Motor
- Speed Control Gearmotor
- Parallel Shaft GTR-L Series Performance Table/Dimension
- Reversible Gearmotor with Brake
- Speed Control Gearmotor with Brake
- Technical Information
- Standard Motors
- Cautions for Safety
- Option