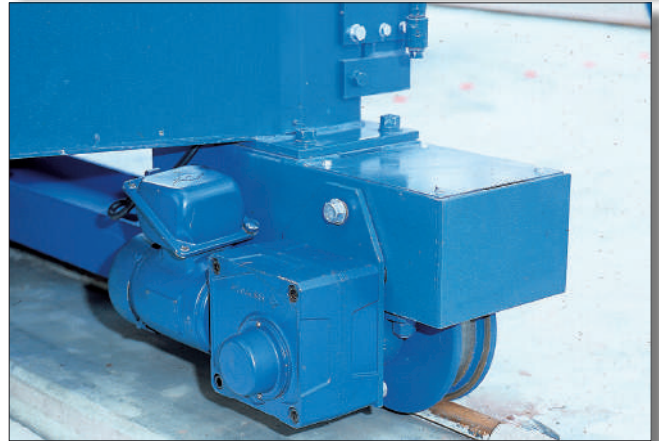


Right angle HYPONIC Drive® allows compact designs

Conveyor lines in breweries



Driving trucks

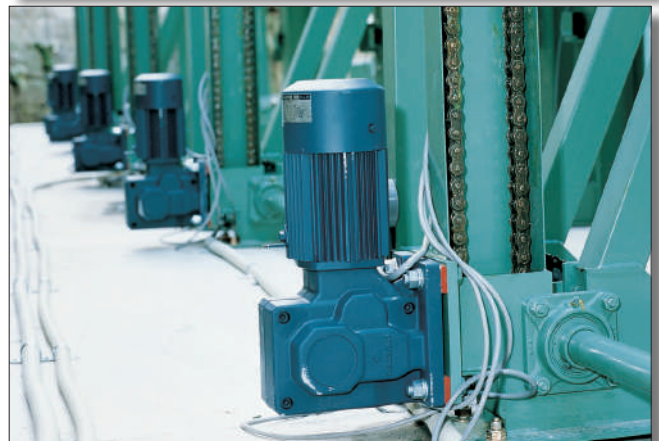


**Direct installation using hollow shaft type (with torque arm).
No requirement for sprockets, chains and other coupling equipment.**

Crushers

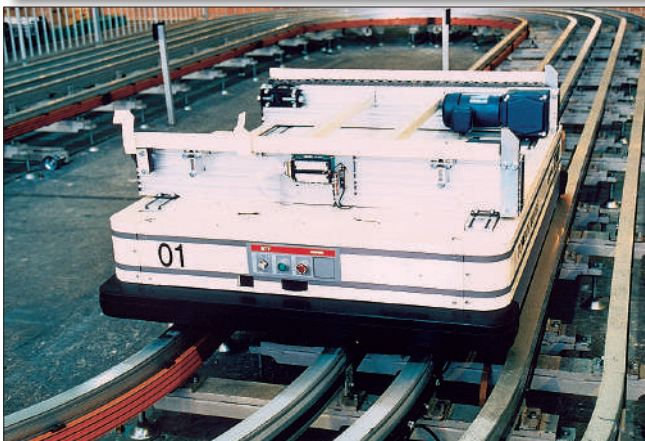


Dehydrator

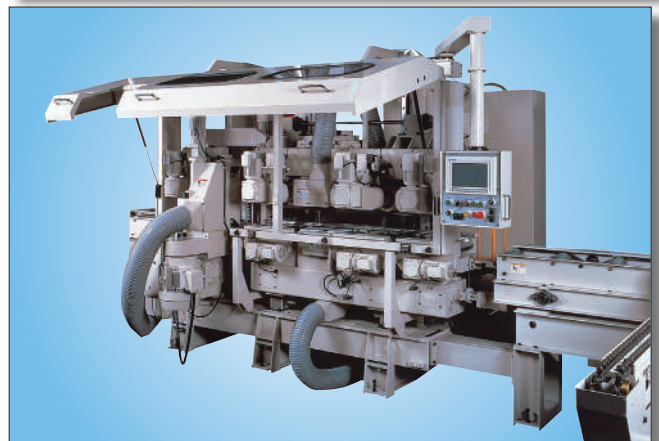


Easy installation by using through bolts directly into the casing.

Auto-guided vehicle



Wood shaving machine



Direct installation with solid shaft flanges.

Sumitomo Drive Technologies
» Building Tomorrow Together

HYPONIC DRIVE GEAR MOTOR
RNYM Hollow Shaft type

Sumitomo Drive Technologies
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100 years of the Cyclo® gear
CYCLO 1921 - 2021

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LET'S SUMITOMO GEAR MOTOR

Hollow Shaft

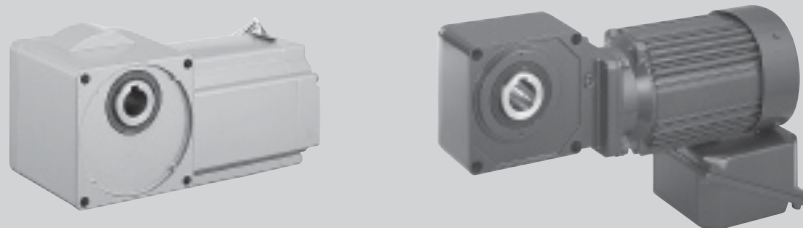
3-phase

Single-phase

Motors for Inverters

HYPONIC
Drive®

Hollow Shaft



0.25kW 3-phase Motor



0.25
kW

RNYM Series Hollow Shaft Type

Motor Speed	n ₁	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.
		Nm		kgf m			N		kgf					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz				
290	350	7.01	5.81	0.714	0.592	3.20 1.60	883	834	90	85	03 — 1210	— 5	3	
											03 — 1220	— 5	4	
207	250	9.81	8.13	1.00	0.829	3.20 1.60	981	932	100	95	03 — 1210	— 7	3	
											03 — 1220	— 7	4	
145	175	14.0	11.6	1.43	1.18	1.60 1.60	1080	1030	110	105	03 — 1210	— 10	3	
											03 — 1220	— 10	4	
121	146	16.8	13.9	1.71	1.42	1.60	1130	1080	115	110	03 — 1220	— 12	4	
96.7	117	21.0	17.4	2.14	1.78	1.60	1230	1180	125	120	03 — 1220	— 15		
72.5	87.5	28.0	23.2	2.86	2.37	1.60	1370	1320	140	135	03 — 1220	— 20		
58.0	70.0	35.0	29.0	3.57	2.96	1.60	1470	1370	150	140	03 — 1220	— 25		
48.3	58.3	42.0	34.8	4.29	3.55	1.60	1520	1470	155	150	03 — 1220	— 30	5	
36.3	43.8	56.1	46.4	5.72	4.74	1.60	2650	2550	270	260	03 — 1320	— 40		
29.0	35.0	70.1	58.1	7.14	5.92	1.60	2840	2750	290	280	03 — 1320	— 50		
24.2	29.2	84.1	69.7	8.57	7.10	1.60	2940	2840	300	290	03 — 1320	— 60		

Notes : 1. Motor slippage may affect n₁ and n₂.

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 3

RNYM03-1210-5~10
(RNYM03-1210-B-5~10)

Mass 9.0kg
(Mass 10kg)

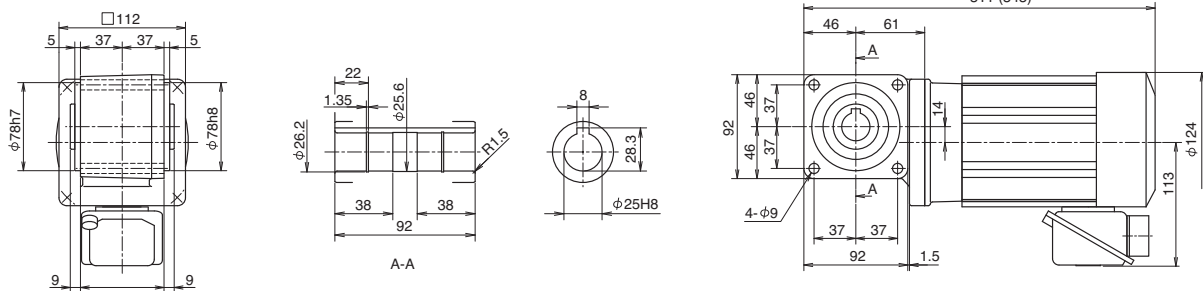


Fig. 4

RNYM03-1220-5~30
(RNYM03-1220-B-5~30)

Mass 9.5kg
(Mass 11kg)

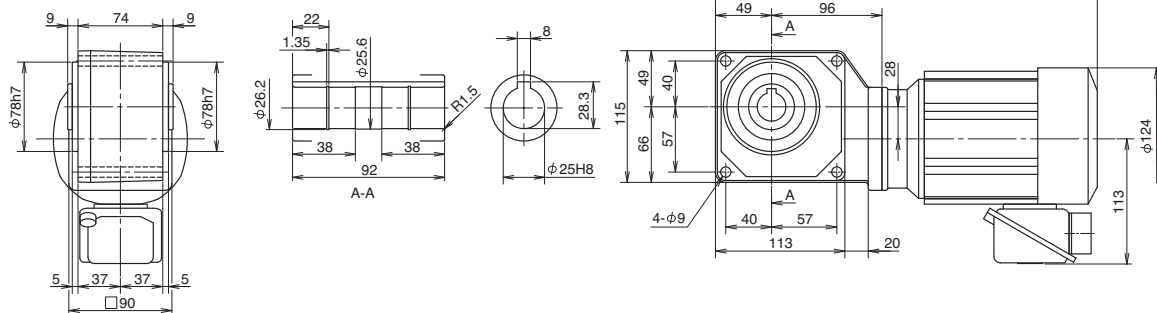
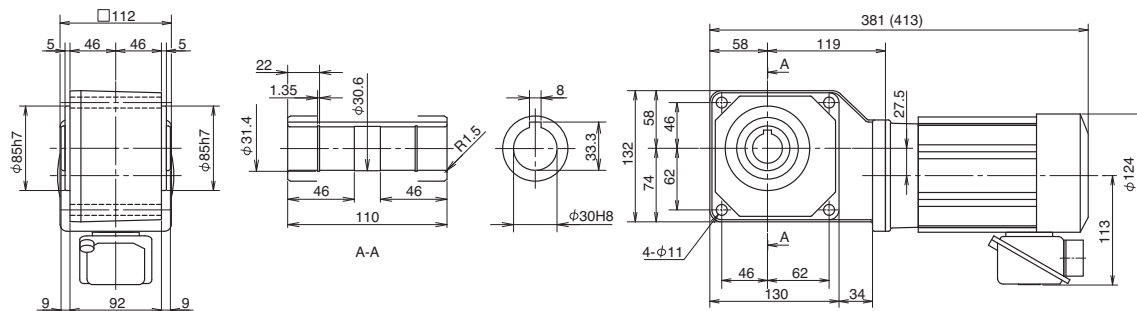


Fig. 5

RNYM03-1320-40~60
(RNYM03-1320-B-40~60)

Mass 11kg
(Mass 13kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.

Motor Speed	n_1	50Hz	1450r/min
		60Hz	1750r/min

Notes : 1. Motor slippage may affect n_1 and n_2 .
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.
3. Output torque is limited when SF is *. It must be used within the value stipulated in the table as overload may occur if the motor is loaded to its full capacity.

Without brake

With brake

3. Dimensions and Masses in the drawings are subject to change without notice.

RNYM Series Hollow Shaft Type

Motor Speed	n_1	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
290	350	11.2	9.29	1.14	0.947	2.00	883	834	90	85	05 —	1210	—	5	3
						1.00	883	834	90	85	05 —	1220	—	5	4
						2.00	1470	1370	150	140	05 —	1320	—	5	5
207	250	15.7	13.0	1.60	1.33	2.00	981	932	100	95	05 —	1210	—	7	3
						1.00	981	932	100	95	05 —	1220	—	7	4
						2.00	1670	1570	170	160	05 —	1320	—	7	5
145	175	22.4	18.6	2.29	1.89	1.00	1080	1030	110	105	05 —	1210	—	10	3
						1.00	1080	1030	110	105	05 —	1220	—	10	4
						2.00	1810	1720	185	175	05 —	1320	—	10	5

Notes : 1. Motor slippage may affect n_1 and n_2 .

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

- Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 3

NYM05-1210-5~10
(NYM05-1210-B-5~

Mass 9kg
(Mass 10kg)

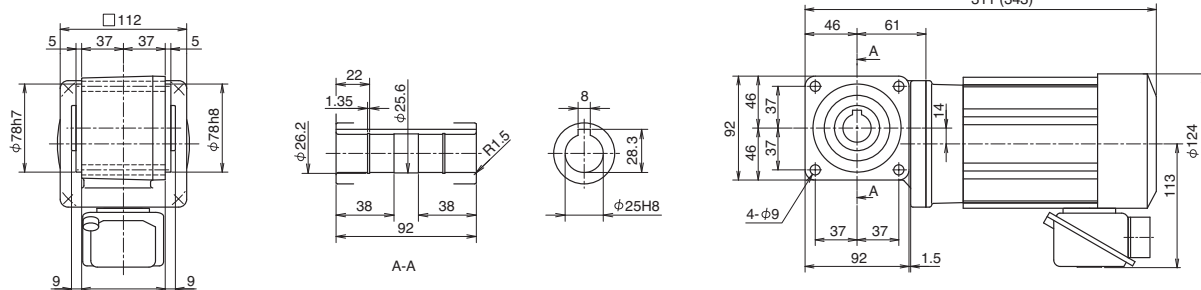


Fig. 4

RNYM05-1220-5~10
(RNYM05-1220-B-5~10)

Mass 9.5kg
(Mass 11kg)

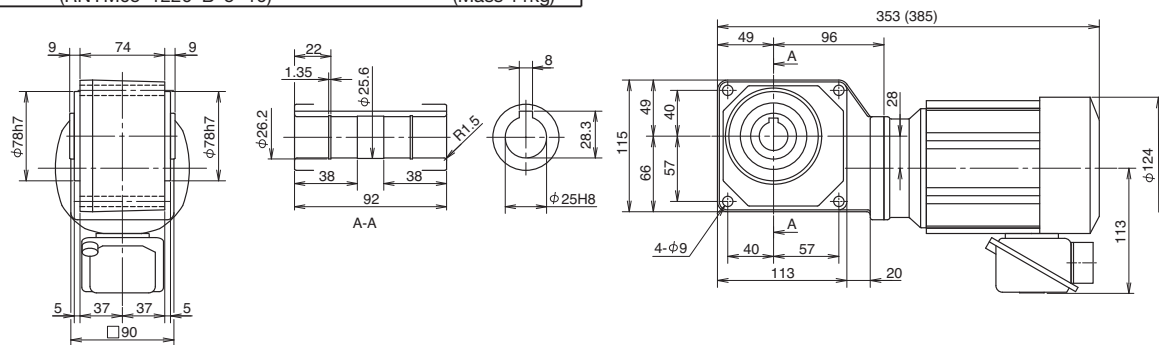
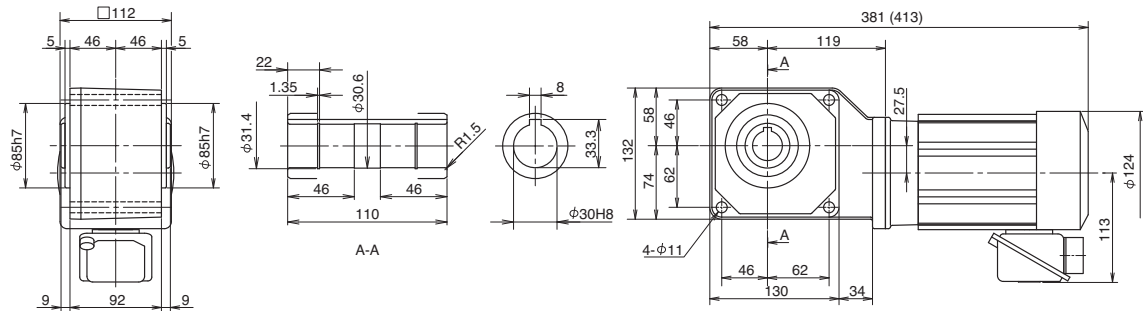


Fig. 5

RNYM05-1320-5~10
(RNYM05-1320-B-5~10)

Mass 11kg
(Mass 13kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.



RNYM Series Hollow Shaft Type

Motor Speed	n ₁	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
121	146	26.9	22.3	2.74	2.27	1.00	1130	1080	115	110	05 —	1220	—	12	1
						2.00	1910	1810	195	185	05 —	1320	—	12	2
96.7	117	33.6	27.9	3.43	2.84	1.00	1230	1180	125	120	05 —	1220	—	15	1
						2.00	2060	1960	210	200	05 —	1320	—	15	2
72.5	87.5	44.8	37.2	4.57	3.79	1.00	1370	1320	140	135	05 —	1220	—	20	1
						2.00	2260	2160	230	220	05 —	1320	—	20	2
58.0	70.0	56.1	46.4	5.72	4.74	1.00	1470	1370	150	140	05 —	1220	—	25	1
						2.00	2350	2260	240	230	05 —	1320	—	25	2
48.3	58.3	67.3	55.7	6.86	5.68	1.00	1520	1470	155	150	05 —	1220	—	30	1
						2.00	2450	2350	250	240	05 —	1320	—	30	2
36.3	43.8	89.7	74.3	9.14	7.58	1.00	2650	2550	270	260	05 —	1320	—	40	2
						2.00	3970	3820	405	390	05 —	1420	—	40	3
29.0	35.0	112	92.9	11.4	9.47	1.00	2840	2750	290	280	05 —	1320	—	50	2
						2.00	4170	4020	425	410	05 —	1420	—	50	3
24.2	29.2	135	111	13.7	11.4	1.00	2940	2840	300	290	05 —	1320	—	60	2
						2.00	4310	4170	440	425	05 —	1420	—	60	3

Notes : 1. Motor slippage may affect n₁ and n₂.
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 1

RNYM05-1220-12~30
(RNYM05-1220-B-12~30)

Mass 9.5kg
(Mass 11kg)

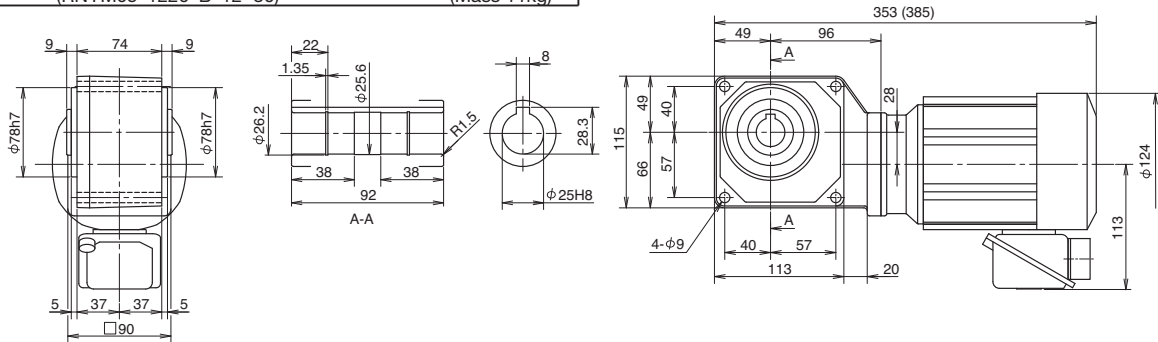


Fig. 2

RNYM05-1320-12~60
(RNYM05-1320-B-12~60)

Mass 11kg
(Mass 13kg)

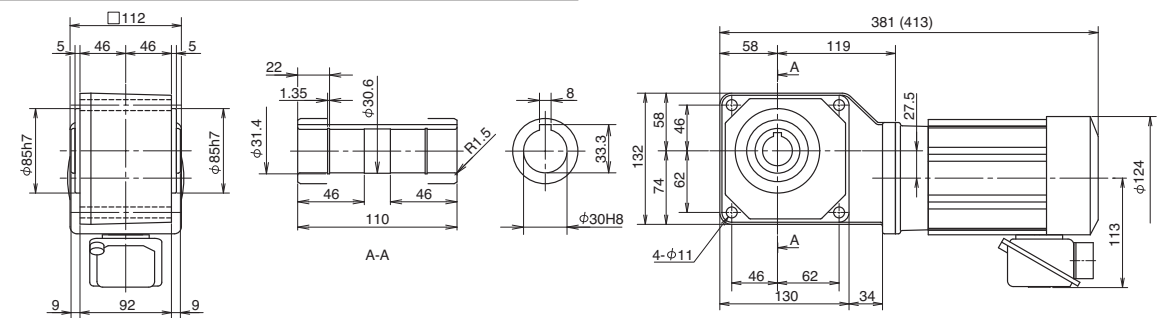
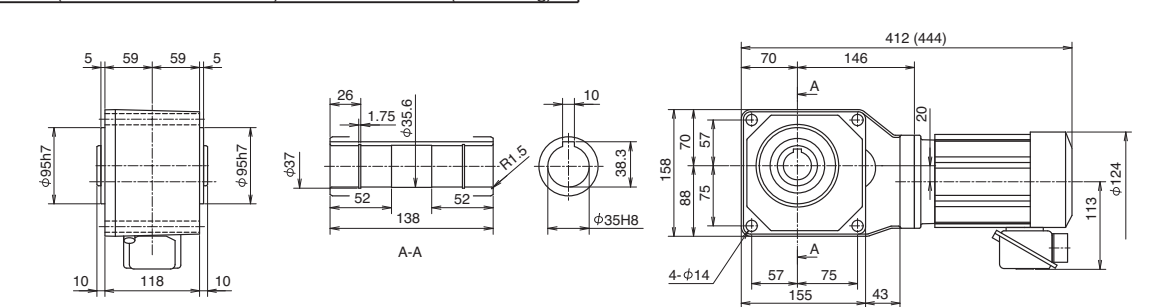


Fig. 3

RNYM05-1420-40~60
(RNYM05-1420-B-40~60)

Mass 15kg
(Mass 16kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

3. Dimensions and Masses in the drawings are subject to change without notice.

0.4kW 3-phase Motor



0.4

kW

RNYM Series Hollow Shaft Type

Motor Speed n ₁	50Hz	1450r/min
60Hz	1750r/min	

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
18.1	21.9	179	149	18.3	15.2	1.00	4360	4270	445	435	05 —	1430	—	80	4
						2.00	6230	6130	635	625	05 —	1530	—	80	5
14.5	17.5	224	186	22.9	18.9	1.00	4360	4360	445	445	05 —	1430	—	100	4
						2.00	6230	6230	635	635	05 —	1530	—	100	5
12.1	14.6	269	223	27.4	22.7	1.00	4360	4360	445	445	05 —	1430	—	120	4
						2.00	6230	6230	635	635	05 —	1530	—	120	5
9.67	11.7	336	279	34.3	28.4	1.00	4360	4360	445	445	05 —	1430	—	150	4
						2.00	6230	6230	635	635	05 —	1530	—	150	5
7.25	8.75	390	372	39.8	37.9	*	4360	4360	445	445	05 —	1430	—	200	4
		448	372	45.7	37.9	1.63	6230	6230	635	635	05 —	1530	—	200	5
6.04	7.29	390	390	39.8	39.8	*	4360	4360	445	445	05 —	1430	—	240	4
		538	446	54.9	45.5	1.36	6230	6230	635	635	05 —	1530	—	240	5

Notes : 1. Motor slippage may affect n₁ and n₂.

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

3. Output torque is limited when SF is *. It must be used within the value stipulated in the table as overload may occur if the motor is loaded to its full capacity.

Fig. 4 Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.
RNYM05-1430-80~240 Mass 16kg
(RNYM05-1430-B-80~240) (Mass 17kg)

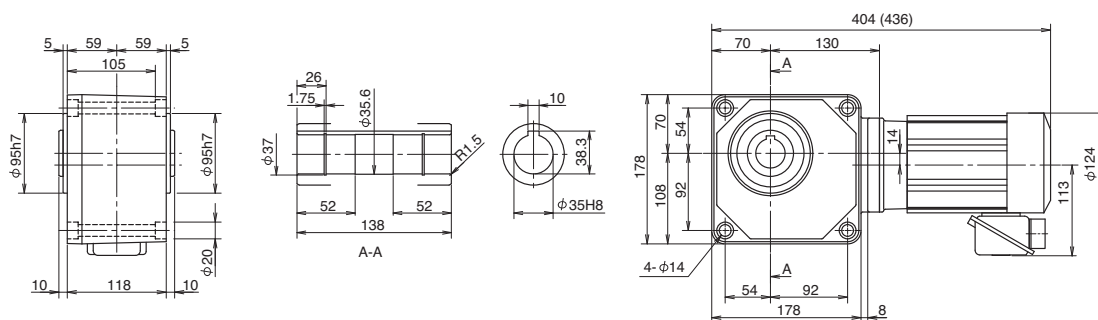
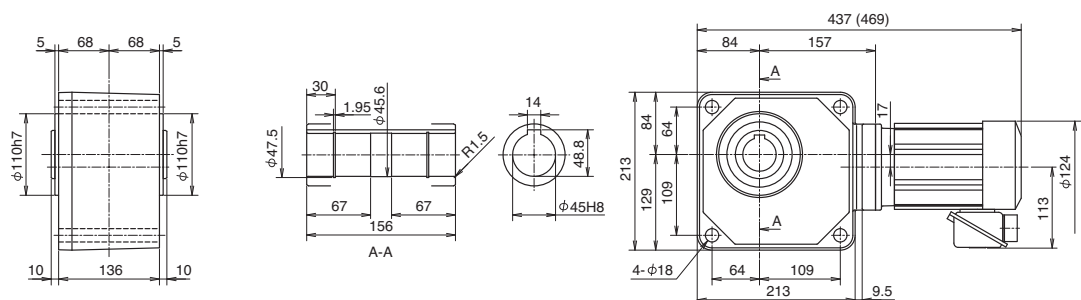


Fig. 5 RNYM05-1530-80~240 Mass 23kg
(RNYM05-1530-B-80~240) (Mass 24kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.



0.4kW 3-phase Motor

3-phase Motor Indoor Type



Motor Speed	n ₁	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.
		Nm		kgf m			N		kgf					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz				
4.83	5.83	633	525	64.6	53.5	1.00	6230	6230	635	635	05 — 1540	— 300	1	
						2.00	9810	9810	1000	1000	05 — 1640	— 300	2	
4.03	4.86	732	629	74.6	64.2	*	6230	6230	635	635	05 — 1540	— 360	1	
						1.95	9810	9810	1000	1000	05 — 1640	— 360	2	
3.02	3.65	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 480	1	
						1.46	9810	9810	1000	1000	05 — 1640	— 480	2	
2.42	2.92	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 600	1	
						1.17	9810	9810	1000	1000	05 — 1640	— 600	2	
2.01	2.43	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 720	1	
						*	9810	9810	1000	1000	05 — 1640	— 720	2	
1.61	1.94	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 900	1	
						*	9810	9810	1000	1000	05 — 1640	— 900	2	
1.21	1.46	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 1200	1	
						*	9810	9810	1000	1000	05 — 1640	— 1200	2	
1.01	1.22	732	732	74.6	74.6	*	6230	6230	635	635	05 — 1540	— 1440	1	
						*	9810	9810	1000	1000	05 — 1640	— 1440	2	

Notes : 1. Motor slippage may affect n₁ and n₂.

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

3. Output torque is limited when SF is *. It must be used within the value stipulated in the table as overload may occur if the motor is loaded to its full capacity.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 1

RNYM05-1540-300~1440
(RNYM05-1540-B-300~1440)

Mass 26kg
(Mass 27.5kg)

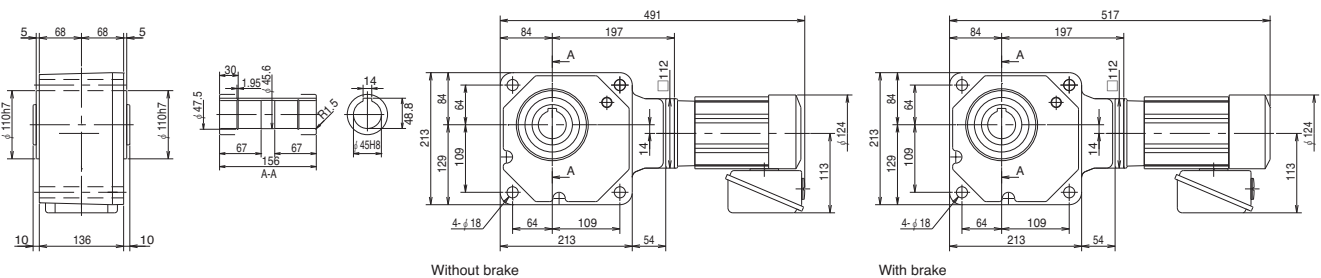
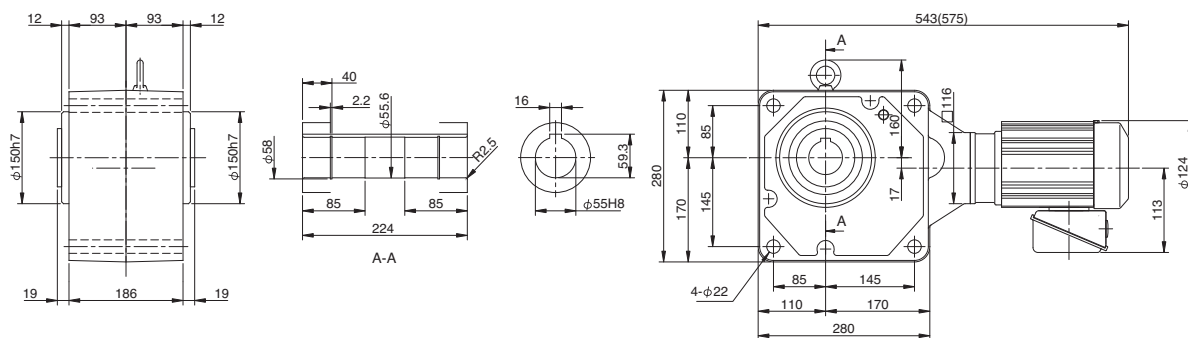


Fig. 2

RNYM05-1640-300~1440
(RNYM05-1640-B-300~1440)

Mass 63kg
(Mass 64kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.

