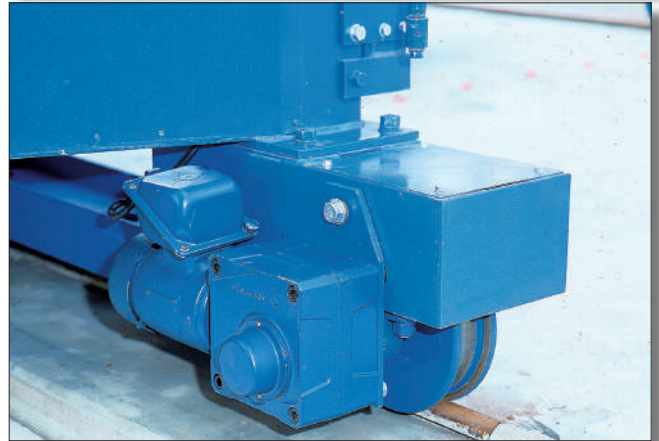


Right angle HYPONIC Drive® allows compact designs

Conveyor lines in breweries



Driving trucks

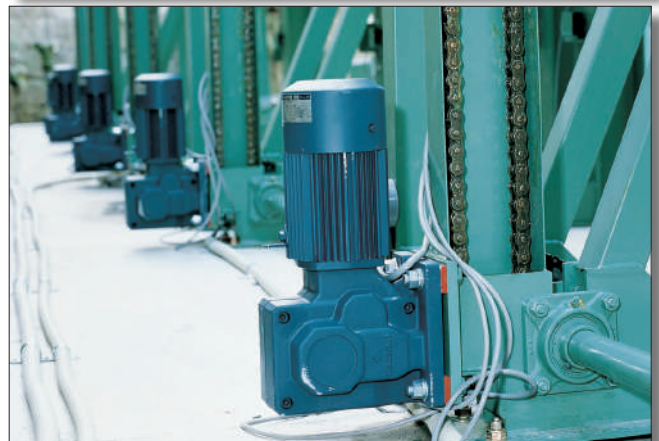


**Direct installation using hollow shaft type (with torque arm).
No requirement for sprockets, chains and other coupling equipment.**

Crushers

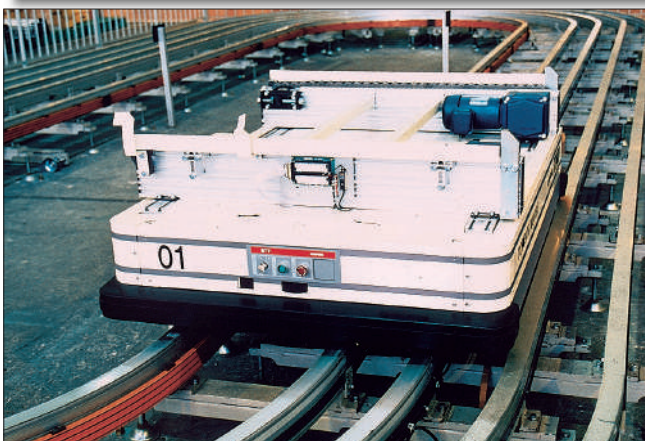


Dehydrator

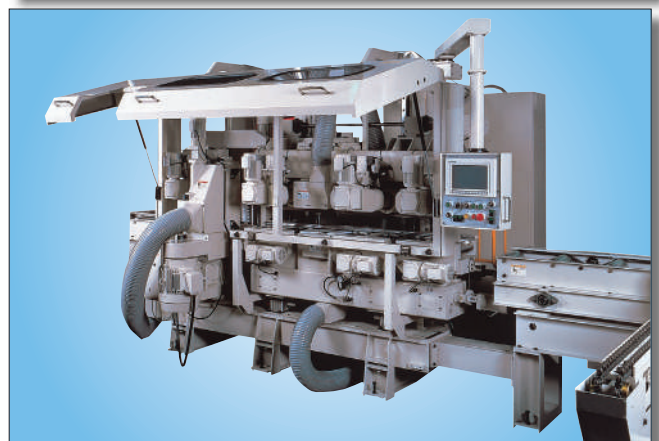


Easy installation by using through bolts directly into the casing.

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
HYPONIC DRIVE

Sumitomo Drive Technologies
100 years of the Cyclo® gear
CYCLO 1921 - 2020

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LET'S SUMITOMO GEAR MOTOR

Hollow Shaft

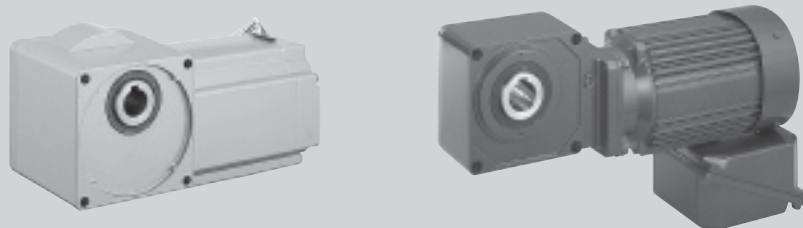
3-phase

Single-phase

Motors for Inverters

HYPONIC Drive®

Hollow Shaft



RNYM Series Hollow Shaft Type

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

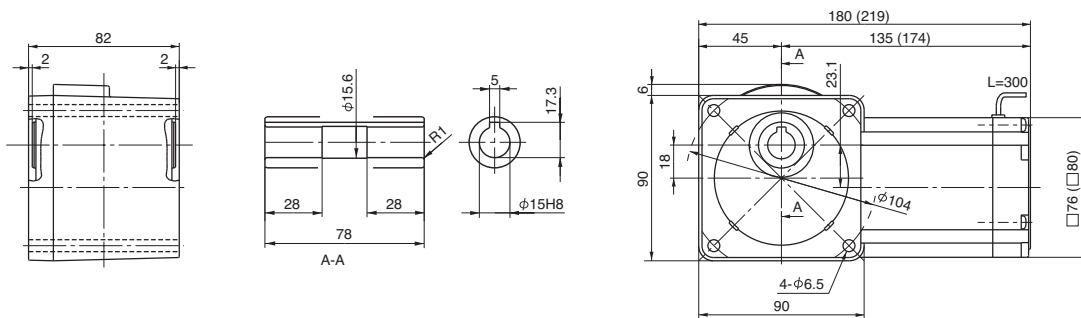
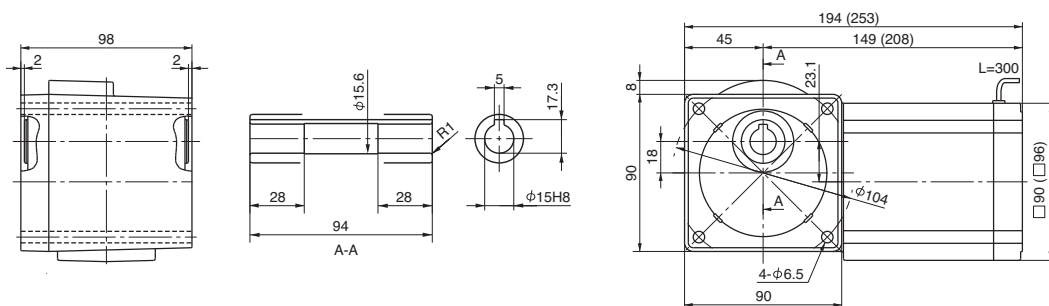
Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		kgf m		kgf m			N		kgf						
							50Hz	60Hz	50Hz	60Hz					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
290	350	1.68	1.39	0.171	0.142	1.00	539	490	55	50	006	—	07	—	5
193	233	2.52	2.09	0.257	0.213	1.00	588	539	60	55	006	—	07	—	7.5
145	175	3.36	2.79	0.343	0.284	1.00	637	588	65	60	006	—	07	—	10
121	146	4.04	3.34	0.412	0.341	1.00	686	637	70	65	006	—	07	—	12
96.7	117	5.04	4.18	0.514	0.426	1.00	735	686	75	70	006	—	07	—	15
72.5	87.5	6.73	5.57	0.686	0.568	1.00	785	735	80	75	006	—	07	—	20
58.0	70.0	8.41	6.97	0.857	0.710	1.00	834	785	85	80	006	—	07	—	25
48.3	58.3	10.1	8.36	1.03	0.852	1.00	883	834	90	85	006	—	07	—	30
36.3	43.8	13.5	11.1	1.37	1.14	1.00	981	932	100	95	006	—	07	—	40
29.0	35.0	16.8	13.9	1.71	1.42	1.00	1080	1030	110	105	006	—	07	—	50
24.2	29.2	20.2	16.7	2.06	1.70	1.00	1080	1080	110	110	006	—	07	—	60
18.1	21.9	26.9	22.3	2.74	2.27	1.50	1420	1370	145	140	006	—	17	—	80
14.5	17.5	33.6	27.9	3.43	2.84	1.50	1420	1420	145	145	006	—	17	—	100
12.1	14.6	40.4	33.4	4.12	3.41	1.34	1420	1420	145	145	006	—	17	—	120
9.67	11.7	50.4	41.8	5.14	4.26	1.07	1420	1420	145	145	006	—	17	—	150
7.25	8.75	53.9	53.9	5.50	5.50	*	1420	1420	145	145	006	—	17	—	200
6.04	7.29	53.9	53.9	5.50	5.50	*	1420	1420	145	145	006	—	17	—	240

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.

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

Fig. 1RNYM006-07-5-60
(RNYM006-07-B-5-60)Mass 2.9kg
(Mass 3.5kg)**Fig. 2**RNYM006-17-80-240
(RNYM006-17-B-80-240)Mass 3.9kg
(Mass 4.3kg)

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				
4.83	5.83	95.0	78.7	9.68	8.02	1.03	1810	1810	185	185	006	—1240	— 300	3
4.03	4.86	98.1	94.4	10.0	9.63	*	1810	1810	185	185	006	—1240	— 360	
3.02	3.65	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 480	
2.42	2.92	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 600	
2.01	2.43	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 720	
1.61	1.94	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 900	
1.21	1.46	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 1200	
1.01	1.22	98.1	98.1	10.0	10.0	*	1810	1810	185	185	006	—1240	— 1440	

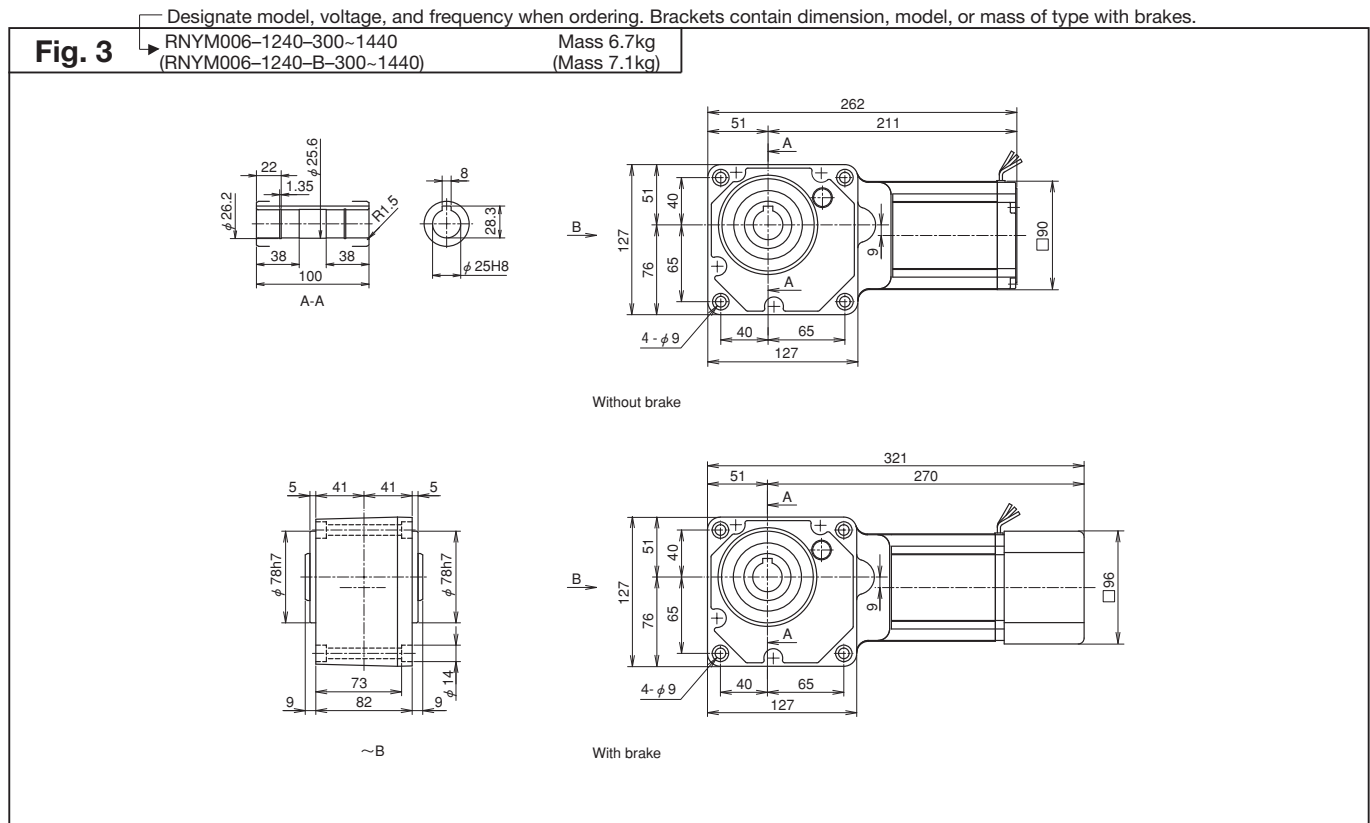
Notes : 1. Motor slippage may affect n₁ and n₂.

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.

Hollow Shaft

3-phase



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	

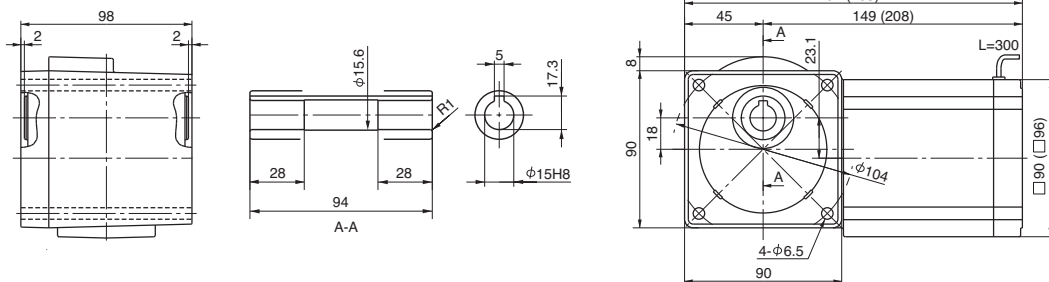
Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
							50Hz	60Hz	50Hz	60Hz					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
290	350	2.52	2.09	0.257	0.213	1.00	637	588	65	60	009	—	17	—	5
193	233	3.78	3.13	0.386	0.320	1.00	686	637	70	65	009	—	17	—	7.5
145	175	5.04	4.18	0.514	0.426	1.00	785	735	80	75	009	—	17	—	10
121	146	6.05	5.02	0.617	0.511	1.00	834	785	85	80	009	—	17	—	12
96.7	117	7.57	6.27	0.772	0.639	1.00	883	834	90	85	009	—	17	—	15
72.5	87.5	10.1	8.36	1.03	0.852	1.00	981	932	100	95	009	—	17	—	20
58.0	70.0	12.6	10.4	1.29	1.07	1.00	1030	981	105	100	009	—	17	—	25
48.3	58.3	15.1	12.5	1.54	1.28	1.00	1080	1030	110	105	009	—	17	—	30
36.3	43.8	20.2	16.7	2.06	1.70	1.00	1180	1130	120	115	009	—	17	—	40
29.0	35.0	25.2	20.9	2.57	2.13	1.00	1270	1230	130	125	009	—	17	—	50
24.2	29.2	30.3	25.1	3.09	2.56	1.00	1320	1270	135	130	009	—	17	—	60
18.1	21.9	40.4	33.4	4.12	3.41	1.00	1420	1370	145	140	009	—	17	—	80
14.5	17.5	50.4	41.8	5.14	4.26	1.00	1420	1420	145	145	009	—	17	—	100
12.1	14.6	53.9	50.2	5.50	5.11	*	1420	1420	145	145	009	—	17	—	120
9.67	11.7	53.9	53.9	5.50	5.50	*	1420	1420	145	145	009	—	17	—	150
7.25	8.75	53.9	53.9	5.50	5.50	*	1420	1420	145	145	009	—	17	—	200
6.04	7.29	53.9	53.9	5.50	5.50	*	1420	1420	145	145	009	—	17	—	240

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.

Fig. 1

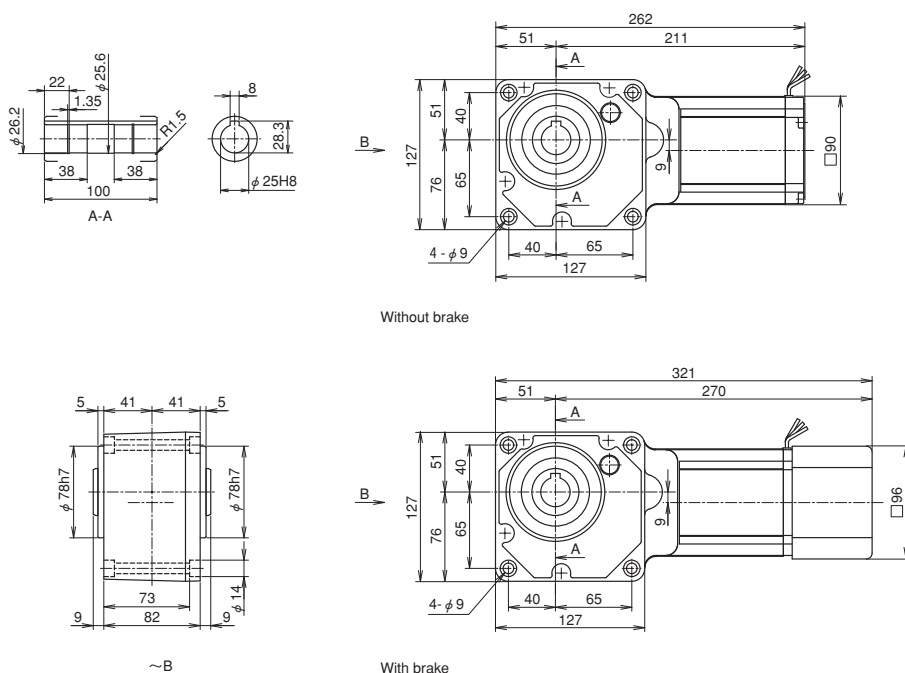
Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.
RNYM009-17-5-240 Mass 4.2kg
(RNYM009-17-B-5-240) (Mass 4.6kg)

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		50Hz	60Hz	50Hz	60Hz					
290	350	2.80	2.32	0.286	0.237	2.00	539	490	55	50	01 —	1010	—	5	1
						2.00	637	588	65	60	01 —	1120	—	5	2
207	250	3.92	3.25	0.400	0.332	2.00	588	539	60	55	01 —	1010	—	7	1
						2.00	686	637	70	65	01 —	1120	—	7	2
145	175	5.61	4.64	0.572	0.474	1.00	637	588	65	60	01 —	1010	—	10	1
						2.00	785	735	80	75	01 —	1120	—	10	2
121	146	6.73	5.57	0.686	0.568	2.00	834	785	85	80	01 —	1120	—	12	2
96.7	117	8.41	6.97	0.857	0.710	2.00	883	834	90	85	01 —	1120	—	15	
72.5	87.5	11.2	9.29	1.14	0.947	2.00	981	932	100	95	01 —	1120	—	20	
58.0	70.0	14.0	11.6	1.43	1.18	2.00	1030	981	105	100	01 —	1120	—	25	
48.3	58.3	16.8	13.9	1.71	1.42	2.00	1080	1030	110	105	01 —	1120	—	30	
36.3	43.8	22.4	18.6	2.29	1.89	1.00	1180	1130	120	115	01 —	1120	—	40	
						2.00	1620	1570	165	160	01 —	1220	—	40	3
29.0	35.0	28.0	23.2	2.86	2.37	1.00	1270	1230	130	125	01 —	1120	—	50	2
						2.00	1720	1670	175	170	01 —	1220	—	50	3
24.2	29.2	33.6	27.9	3.43	2.84	1.00	1320	1270	135	130	01 —	1120	—	60	2
						2.00	1770	1720	180	175	01 —	1220	—	60	3

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. 1

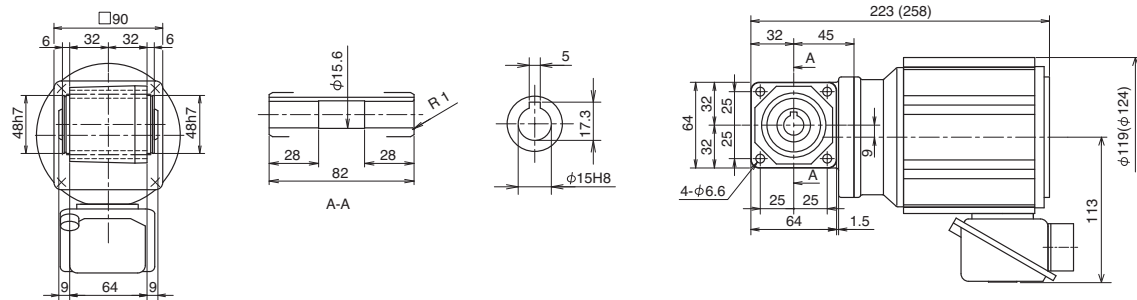
RNYM01-1010-5~10
(RNYM01-1010-B-5~10)Mass 5.0kg
(Mass 6.5kg)

Fig. 2

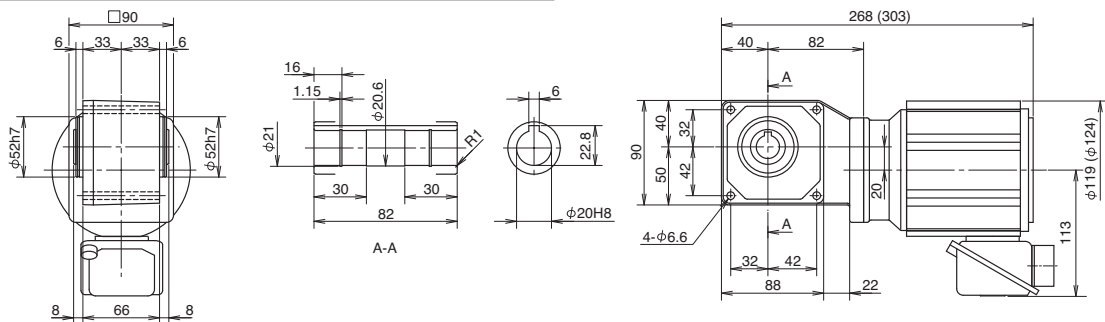
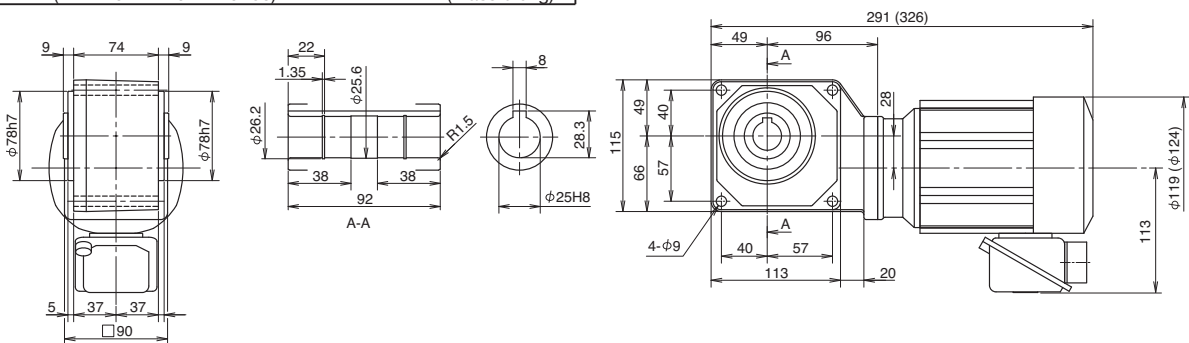
RNYM01-1120-5~60
(RNYM01-1120-B-5~60)Mass 6.0kg
(Mass 7.5kg)

Fig. 3

RNYM01-1220-40~60
(RNYM01-1220-B-40~60)Mass 7.0kg
(Mass 8.5kg)

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

2. Output shaft keyway dimensions : Dimension tolerance in

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

0.1kW 3-phase Motor



0.1
kW

RNYM Series Hollow Shaft Type

Motor Speed	n ₁	50Hz	1450r/min
	n ₂	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	44.8	37.2	4.57	3.79	1.00	1770	1770	180	180	01 —	1230	— 80	4
						2.00	3040	2940	310	300	01 —	1330	— 80	5
14.5	17.5	56.1	46.4	5.72	4.74	1.00	1810	1770	185	180	01 —	1230	— 100	4
						2.00	3090	3040	315	310	01 —	1330	— 100	5
12.1	14.6	67.3	55.7	6.86	5.68	1.00	1810	1810	185	185	01 —	1230	— 120	4
						2.00	3090	3090	315	315	01 —	1330	— 120	5
9.67	11.7	84.1	69.7	8.57	7.10	1.00	1810	1810	185	185	01 —	1230	— 150	4
						2.00	3090	3090	315	315	01 —	1330	— 150	5
7.25	8.75	98.1	92.9	10.0	9.47	*	1810	1810	185	185	01 —	1230	— 200	4
		112	92.9	11.4	9.47	1.74	3090	3090	315	315	01 —	1330	— 200	5
6.04	7.29	98.1	98.1	10.0	10.0	*	1810	1810	185	185	01 —	1230	— 240	4
		135	111	13.7	11.4	1.45	3090	3090	315	315	01 —	1330	— 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.
RNYM01-1230-80~240 Mass 7.5kg
(RNYM01-1230-B-80~840) (Mass 9.0kg)

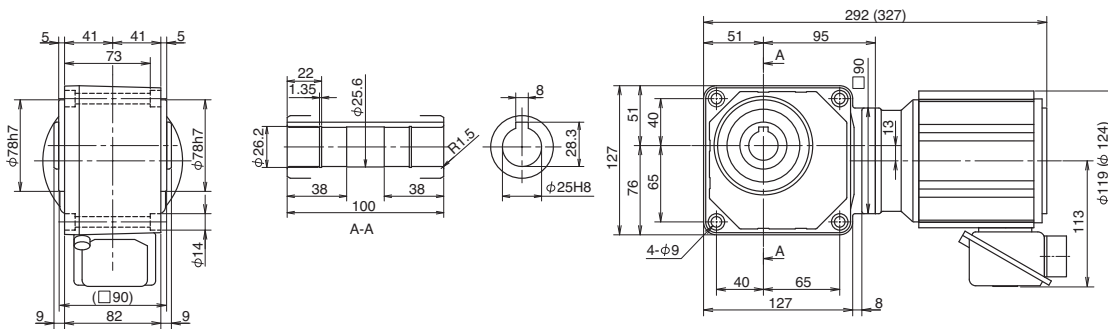
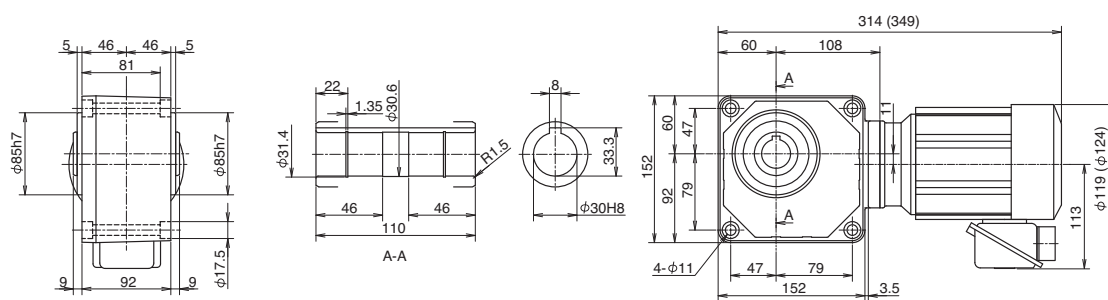


Fig. 5 RNYM01-1330-80~240 Mass 9.0kg
(RNYM01-1330-B-80~840) (Mass 10kg)



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

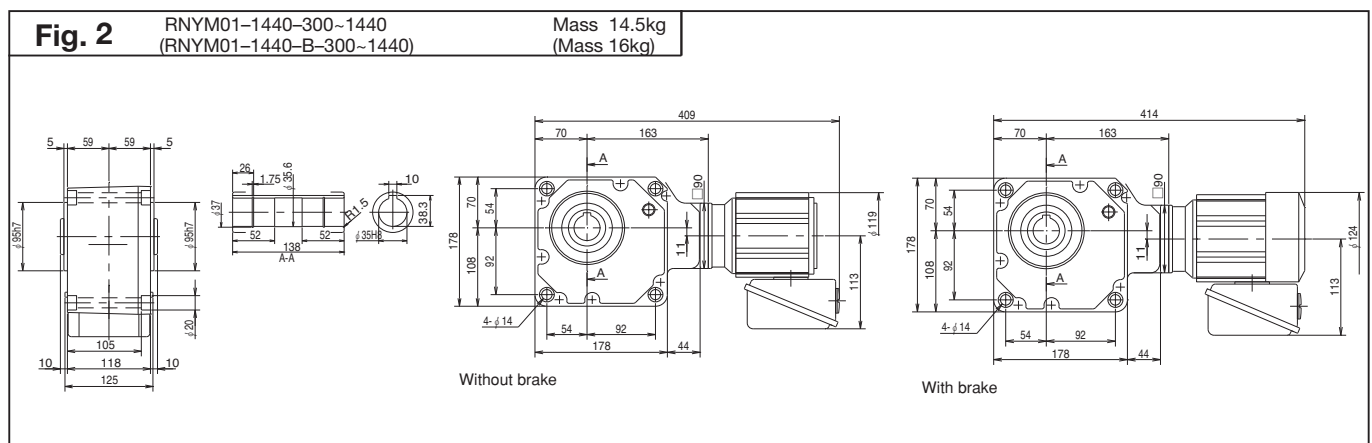
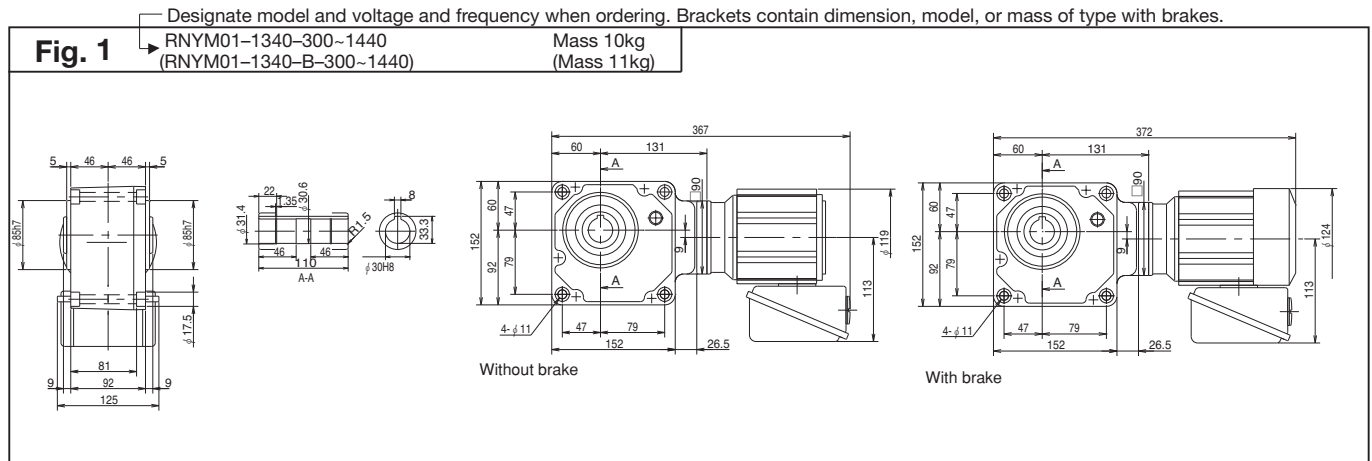
Motor Speed n ₁	50Hz	1450r/min
60Hz	1750r/min	

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				
4.83	5.83	158	131	16.1	13.4	1.00	3090	3090	315	315	01 — 1340 — 300	1		
						2.00	4360	4360	445	445	01 — 1440 — 300	2		
4.03	4.86	190	157	19.4	16.0	1.00	3090	3090	315	315	01 — 1340 — 360	1		
						2.00	4360	4360	445	445	01 — 1440 — 360	2		
3.02	3.65	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 480	1		
		253	210	25.8	21.4	1.54	4360	4360	445	445	01 — 1440 — 480	2		
2.42	2.92	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 600	1		
		317	262	32.3	26.7	1.23	4360	4360	445	445	01 — 1440 — 600	2		
2.01	2.43	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 720	1		
		380	315	38.7	32.1	1.03	4360	4360	445	445	01 — 1440 — 720	2		
1.61	1.94	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 900	1		
		390	390	39.8	39.8	*	4360	4360	445	445	01 — 1440 — 900	2		
1.21	1.46	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 1200	1		
		390	390	39.8	39.8	*	4360	4360	445	445	01 — 1440 — 1200	2		
1.01	1.22	195	195	19.9	19.9	*	3090	3090	315	315	01 — 1340 — 1440	1		
		390	390	39.8	39.8	*	4360	4360	445	445	01 — 1440 — 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.



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.

