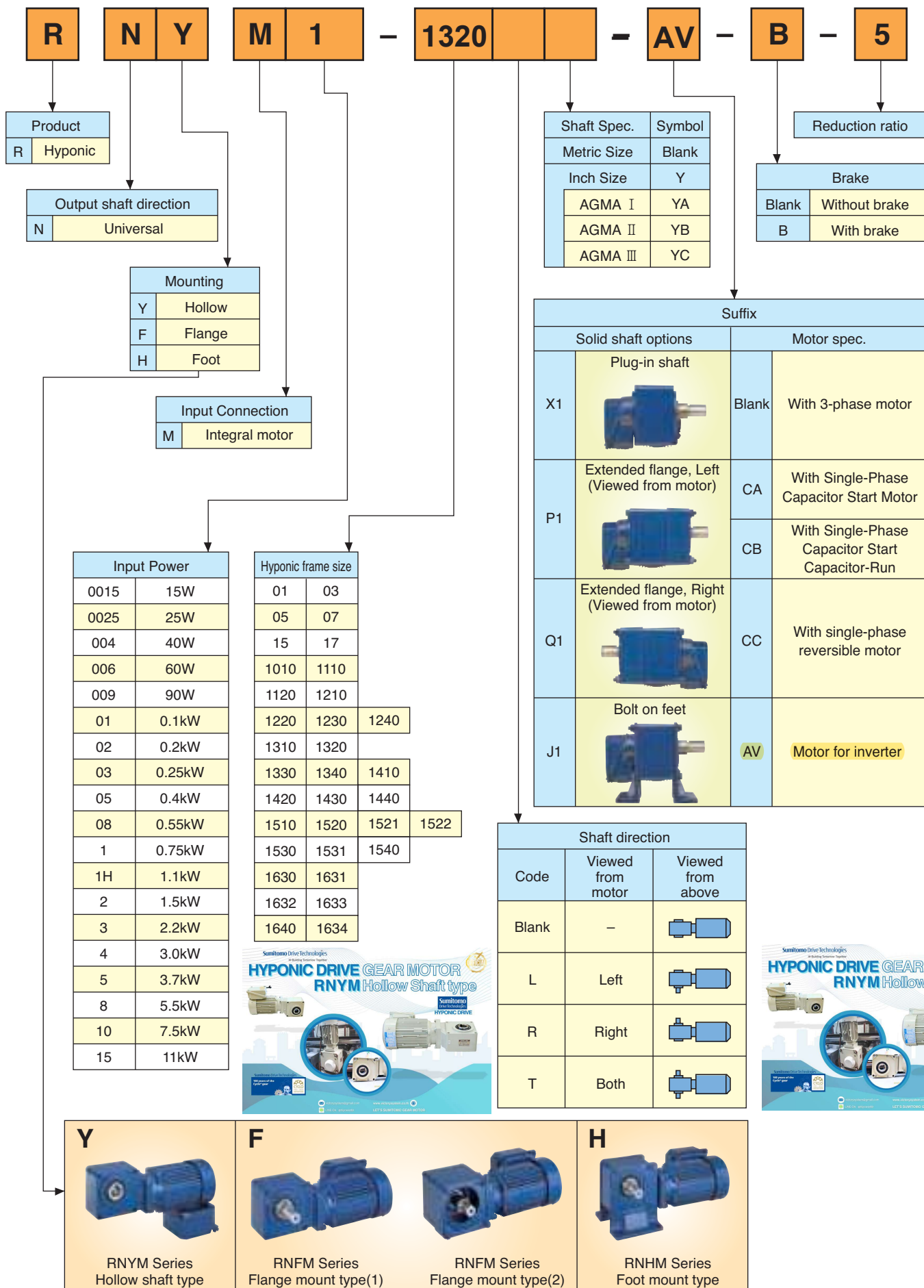


CODE "AV" in HYPONIC MODEL

มอเตอร์พิเศษที่ผลิตเพื่อการใช้งานร่วมกับอินเวอร์เตอร์

AV is AF Motor



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 - 2021

victorysystem@gmail.com
LINE OA : @hipower89

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LET'S SUMITOMO GEAR MOTOR

Hollow Shaft

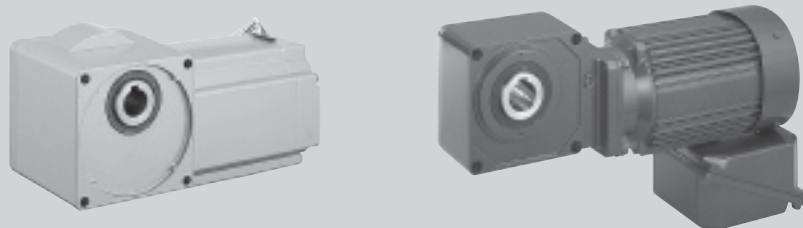
3-phase

Single-phase

Motors for Inverters

HYPONIC Drive®

Hollow Shaft



RNYM Series Hollow Shaft Type

Motor Speed n ₁	60Hz	1750r/min
----------------------------	------	-----------

Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol - Size -Suffix - Reduction Ratio	Outline Drawing Fig.
			Nm	kgf m		N	kgf		
6Hz	60Hz	Allowable max speed	60Hz	60Hz		60Hz	60Hz		
35.0	350	700 (120Hz)	2.32	0.237	2.00	588	60	01 - 1110 - AV - 5	1
								01 - 1120 - AV - 5	2
25.0	250	500 (120Hz)	3.25	0.332	2.00	637	65	01 - 1110 - AV - 7	1
								01 - 1120 - AV - 7	2
17.5	175	350 (120Hz)	4.64	0.474	2.00	735	75	01 - 1110 - AV - 10	1
								01 - 1120 - AV - 10	2
14.6	146	292 (120Hz)	5.57	0.568	2.00	785	80	01 - 1120 - AV - 12	2
11.7	117	234 (120Hz)	6.97	0.710	2.00	834	85	01 - 1120 - AV - 15	
8.75	87.5	175 (120Hz)	9.29	0.947	2.00	932	95	01 - 1120 - AV - 20	

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 1

RNYM01-1110-AV-5-10
(RNYM01-1110-AV-B-5-10)

Mass 6.0kg
(Mass 7.5kg)

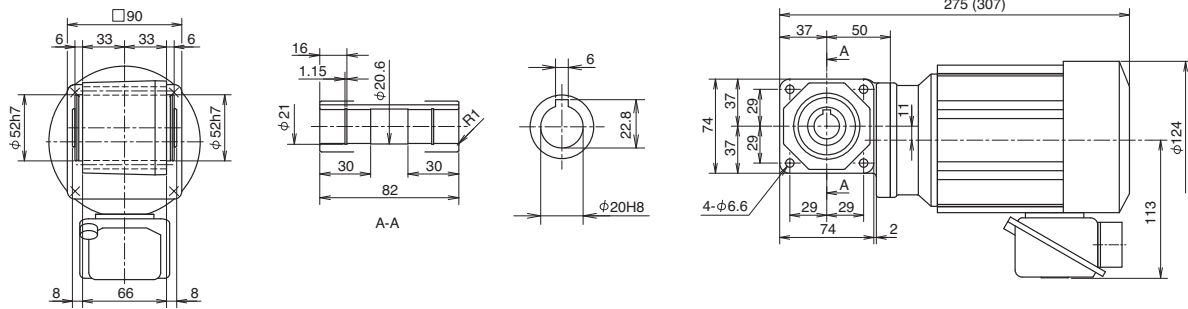
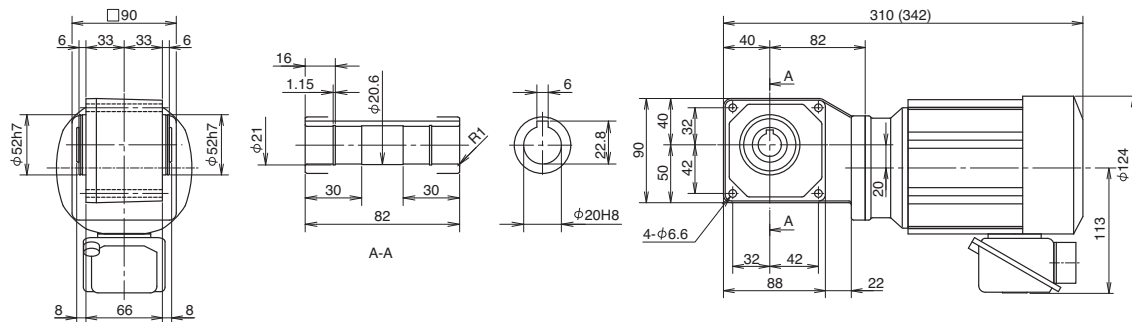


Fig. 2

RNYM01-1120-AV-5-30
(RNYM01-1120-AV-B-5-30)

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 accordance with JIS B 1301-1996 parallel key (Normal Grade).

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



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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
Refer to page A223 for details.

Fig. 3

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

RNYM01-1120-AV-5~30
(RNYM01-1120-AV-B-5~30)

Mass 7.0kg
(Mass 8.5kg)

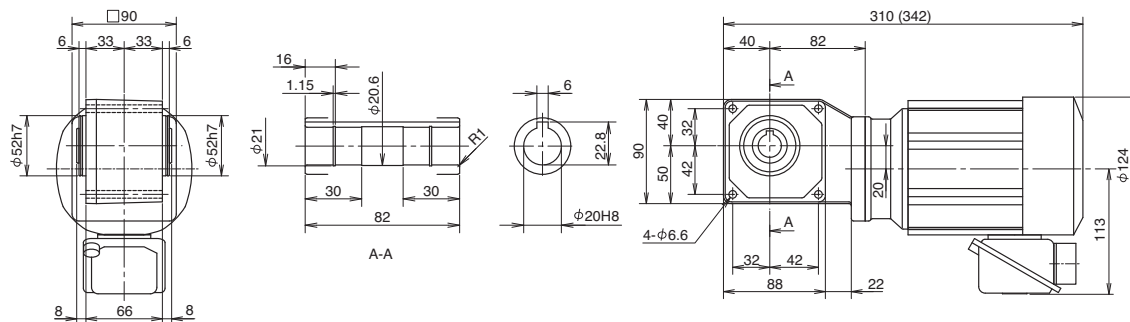
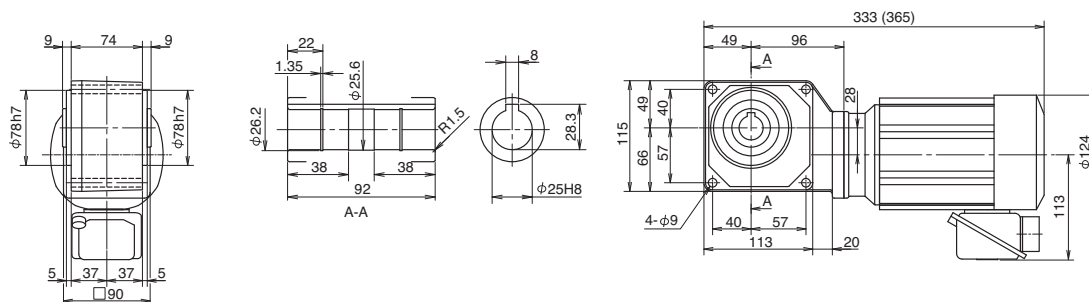


Fig. 4

RNYM01-1220-AV-40~60
(RNYM01-1220-AV-B-40~60)

Mass 8.5kg
(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.



0.1kW Motor for inverter

RNYM Series Hollow Shaft Type



Motor Speed n ₁	60Hz	1750r/min
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Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol - Size -Suffix -	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf			
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz			
2.19	21.9	43.8 (120Hz)	37.2	3.79	1.00	1770	180	01 - 1230 - AV - 80	80	1
					2.00	2940	300	01 - 1330 - AV - 80	80	2
1.75	17.5	35.0 (120Hz)	46.4	4.74	1.00	1770	180	01 - 1230 - AV - 100	100	1
					2.00	3040	310	01 - 1330 - AV - 100	100	2
1.46	14.6	29.2 (120Hz)	55.7	5.68	1.00	1810	185	01 - 1230 - AV - 120	120	1
					2.00	3090	315	01 - 1330 - AV - 120	120	2
1.17	11.7	23.4 (120Hz)	69.7	7.10	1.00	1810	185	01 - 1230 - AV - 150	150	1
					2.00	3090	315	01 - 1330 - AV - 150	150	2
0.875	8.75	17.5 (120Hz)	92.9	9.47	1.00	1810	185	01 - 1230 - AV - 200	200	1
					2.00	3090	315	01 - 1330 - AV - 200	200	2
0.729	7.29	14.6 (120Hz)	111	11.4	*	1810	185	01 - 1230 - AV - 240	240	1
					1.80	3090	315	01 - 1330 - AV - 240	240	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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 1

RNYM02-1230-AV-80~240
 (RNYM02-1230-AV-B-80~240) Mass 8.5kg
 (Mass 10kg)

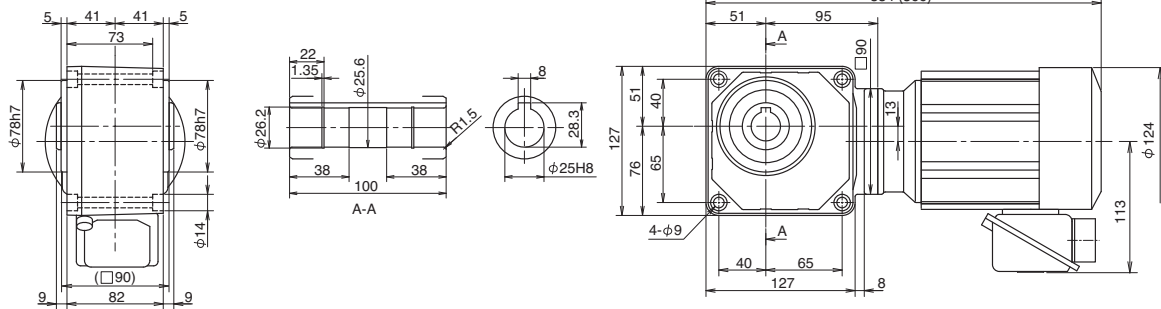
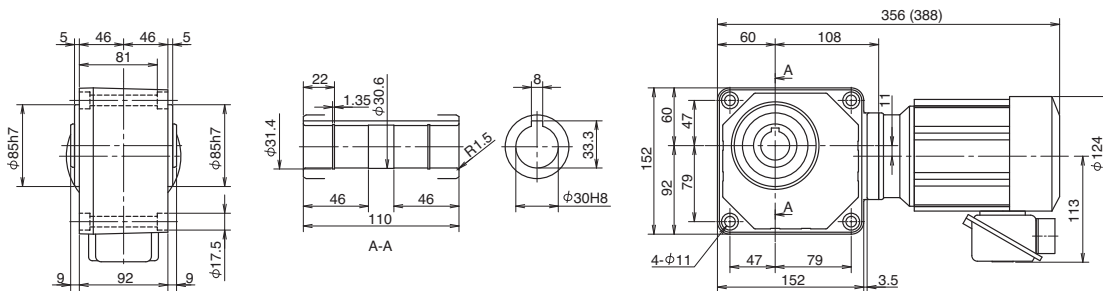


Fig. 2

RNYM01-1330-AV-80~240
 (RNYM01-1330-AV-B-80~240) Mass 10kg
 (Mass 11kg)



- 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	60Hz	1750r/min
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Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol	Frame Size	-Suffix-	Reduction Ratio	Outline Drawing Fig.
			Nm	kgf m		N	kgf					
6Hz	60Hz	Allowable max speed	60Hz	60Hz		60Hz	60Hz					
0.58	5.83	11.7 (120Hz)	131	13.4	1.00	3090	315	01 – 1340 – AV – 300	3			
					2.00	4360	445	01 – 1440 – AV – 300	4			
0.49	4.86	9.72 (120Hz)	157	16.0	1.00	3090	315	01 – 1340 – AV – 360	3			
					2.00	4360	445	01 – 1440 – AV – 360	4			
0.36	3.65	7.29 (120Hz)	210	21.4	*	3090	315	01 – 1340 – AV – 480	3			
					1.85	4360	445	01 – 1440 – AV – 480	4			
0.29	2.92	5.83 (120Hz)	262	26.7	*	3090	315	01 – 1340 – AV – 600	3			
					1.48	4360	445	01 – 1440 – AV – 600	4			
0.24	2.43	4.86 (120Hz)	315	32.1	*	3090	315	01 – 1340 – AV – 720	3			
					1.23	4360	445	01 – 1440 – AV – 720	4			
0.19	1.94	3.89 (120Hz)	390	39.8	*	3090	315	01 – 1340 – AV – 900	3			
			393	40.1	*	4360	445	01 – 1440 – AV – 900	4			
0.15	1.46	2.92 (120Hz)	390	39.8	*	3090	315	01 – 1340 – AV – 1200	3			
			520	53.5	*	4360	445	01 – 1440 – AV – 1200	4			
0.12	1.22	2.43 (120Hz)	390	39.8	*	3090	315	01 – 1340 – AV – 1440	3			
			630	64.2	*	4360	445	01 – 1440 – AV – 1440	4			

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

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 $\times$. 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. 3

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

. RNYM02-1340-AV-300~1440
(RNYM02-1340-AV-B-300~1440)

Mass 11kg
(Mass 12kg)

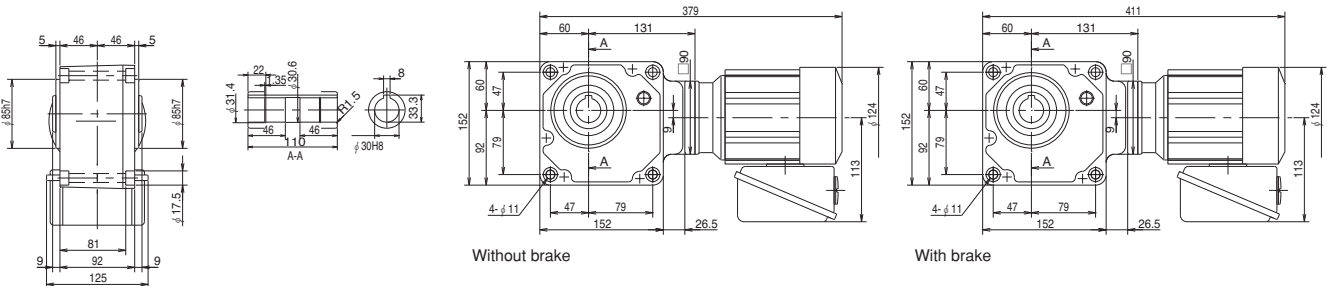
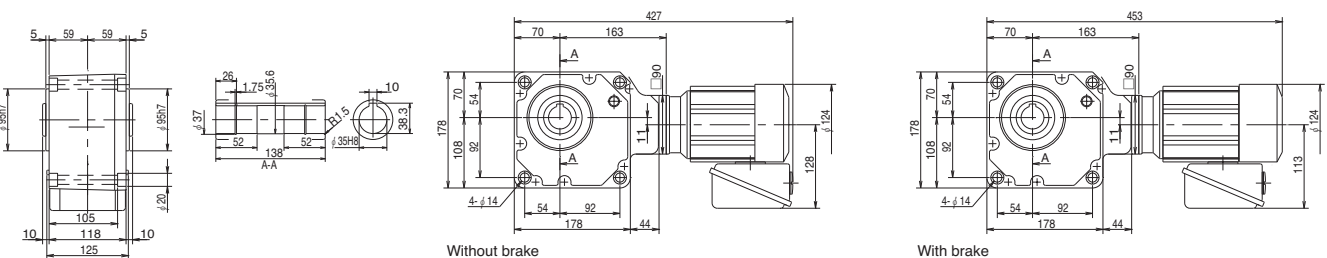


Fig. 4

RNYM01-1440-AV-300~1440
(RNYM01-1440-AV-B-300~1440)

Mass 15.5kg
(Mass 17kg)



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.

Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Frame Size - Suffix - Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf		
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz		
35.0	350	700 (120Hz)	4.64	0.474	4.00	834	85	02 - 1210 - AV - 5	1
					1.00	588	60	02 - 1120 - AV - 5	2
					2.00			02 - 1220 - AV - 5	3
25.0	250	500 (120Hz)	6.50	0.663	4.00	932	95	02 - 1210 - AV - 7	1
					1.00	637	65	02 - 1120 - AV - 7	2
					2.00			02 - 1220 - AV - 7	3
17.5	175	350 (120Hz)	9.29	0.947	1.00	1030	105	02 - 1210 - AV - 10	1
					2.00	735	75	02 - 1120 - AV - 10	2
					2.00			02 - 1220 - AV - 10	3
14.6	146	292 (120Hz)	11.1	1.14	1.00	785	80	02 - 1120 - AV - 12	2
					2.00	1080	110	02 - 1220 - AV - 12	3
11.7	117	234 (120Hz)	13.9	1.42	1.00	834	85	02 - 1120 - AV - 15	2
					2.00	1180	120	02 - 1220 - AV - 15	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.
 3. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 1

RNYM02-1210-AV-5~10
(RNYM02-1210-AV-B-5~10)

Mass 9.0kg
(Mass 10kg)

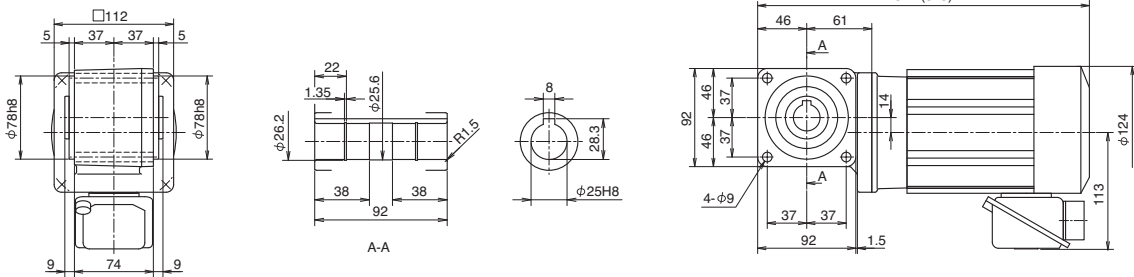


Fig. 2

RNYM02-1120-AV-5~15
(RNYM02-1120-AV-B-5~15)

Mass 8.0kg
(Mass 9.0kg)

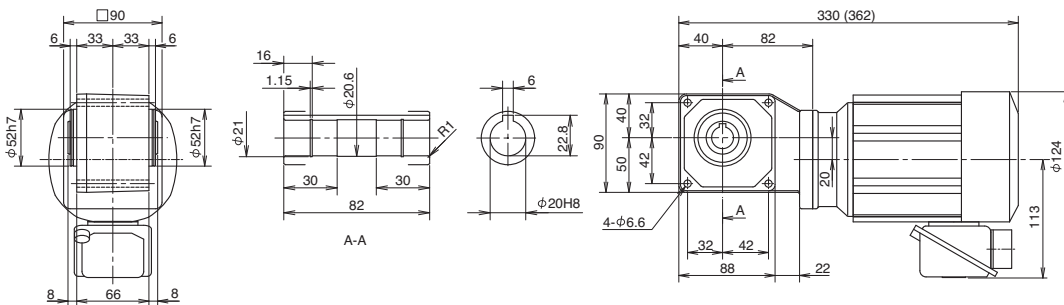
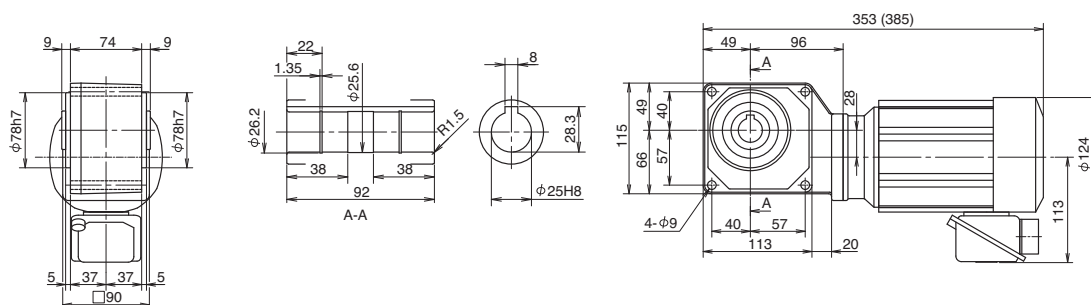


Fig. 3

RNYM02-1220-AV-5~15
(RNYM02-1220-AV-B-5~15)

Mass 9.5kg
(Mass 11kg)



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.

Motor Speed	n_1	60Hz	1750r/min
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Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Outline Drawing Fig.
			Nm	kgf m		N	kgf					
6Hz	60Hz	Allowable max speed	60Hz	60Hz		60Hz	60Hz					
8.75	87.5	175 (120Hz)	18.6	1.89	1.00	932	95	02 – 1120 – AV – 20	1			
					2.00	1320	135	02 – 1220 – AV – 20	2			
7.00	70.0	140 (120Hz)	23.2	2.37	1.00	981	100	02 – 1120 – AV – 25	1			
					2.00	1370	140	02 – 1220 – AV – 25	2			
5.83	58.3	117 (120Hz)	27.9	2.84	1.00	1030	105	02 – 1120 – AV – 30	1			
					2.00	1470	150	02 – 1220 – AV – 30	2			
4.38	43.8	87.6 (120Hz)	37.2	3.79	1.00	1570	160	02 – 1220 – AV – 40	2			
					2.00	2550	260	02 – 1320 – AV – 40	3			
3.50	35.0	70.0 (120Hz)	46.4	4.74	1.00	1670	170	02 – 1220 – AV – 50	2			
					2.00	2750	280	02 – 1320 – AV – 50	3			
2.92	29.2	58.4 (120Hz)	55.7	5.68	1.00	1720	175	02 – 1220 – AV – 60	2			
					2.00	2840	290	02 – 1320 – AV – 60	3			

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

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.

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20.
3. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.

3. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 0-50 Hz.
4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.

Refer to page A223 for details.

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

Fig. 1

NYM02-1120-AV-20~30
(NYM02-1120-AV-B-20~30)

Mass 8.0kg
(Mass 9.0kg)

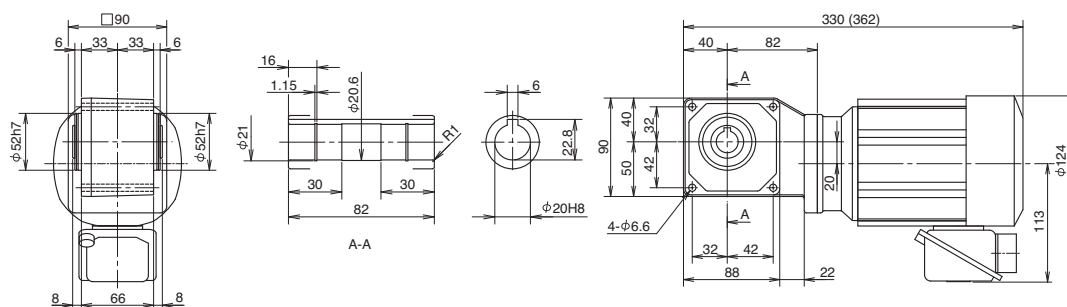


Fig. 2

RNYM02-1220-AV-20~60
(RNYM02-1220-AV-B-20~60)

Mass 9.5kg
(Mass 11kg)

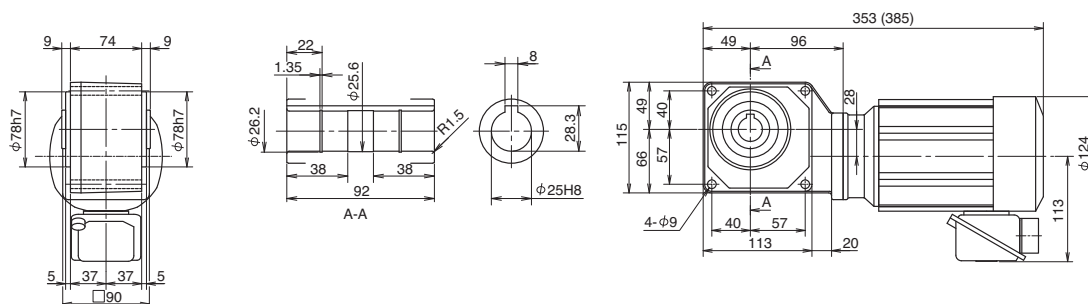
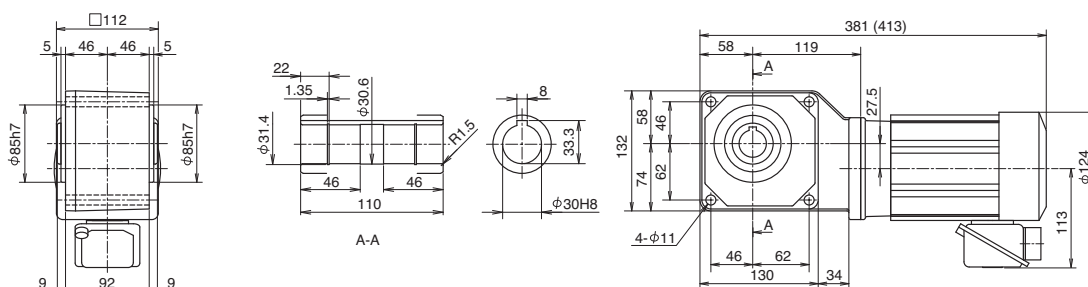


Fig. 3

RNYM02-1320-AV-40~60
(RNYM02-1320-AV-B-40~60)

Mass 11kg
(Mass 13kg)



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

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

2. Output shaft keyway dimensions : Dimension tolerance in

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RNYM Series Hollow Shaft Type

Motor Speed n_1	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Size -Suffix -	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm 60Hz	kgf m 60Hz		N 60Hz	kgf 60Hz			
2.19	21.9	43.8 (120Hz)	74.3	7.58	1.00	2940	300	02 - 1330 - AV - 80	80	1
					2.00	4270	435	02 - 1430 - AV - 80	80	2
1.75	17.5	35.0 (120Hz)	92.9	9.47	1.00	3040	310	02 - 1330 - AV - 100	100	1
					2.00	4360	445	02 - 1430 - AV - 100	100	2
1.46	14.6	29.2 (120Hz)	111	11.4	1.00	3090	315	02 - 1330 - AV - 120	120	1
					2.00	4360	445	02 - 1430 - AV - 120	120	2
1.17	11.7	23.4 (120Hz)	139	14.2	1.00	3090	315	02 - 1330 - AV - 150	150	1
					2.00	4360	445	02 - 1430 - AV - 150	150	2
0.875	8.75	17.5 (120Hz)	186	18.9	1.00	3090	315	02 - 1330 - AV - 200	200	1
					2.00	4360	445	02 - 1430 - AV - 200	200	2
0.729	7.29	14.6 (120Hz)	223	22.7	*	3090	315	02 - 1330 - AV - 240	240	1
					1.80	4360	445	02 - 1430 - AV - 240	240	2

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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.

4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.

Refer to page A223 for details.

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

Fig. 1

RNYM02-1330-AV-80~240
(RNYM02-1330-AV-B-80~240)

Mass 11kg
(Mass 12kg)

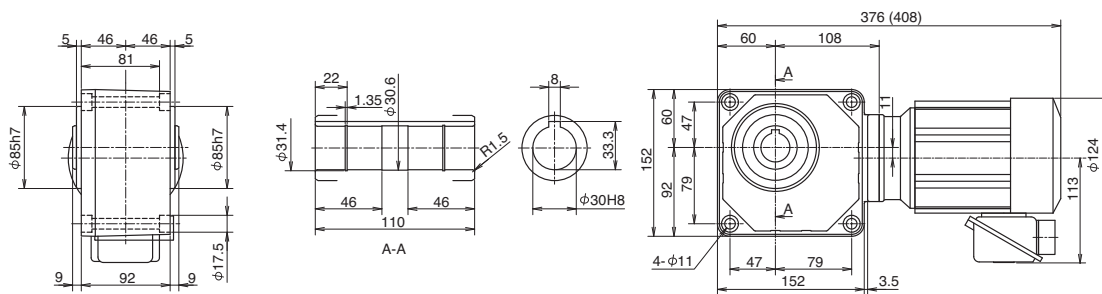
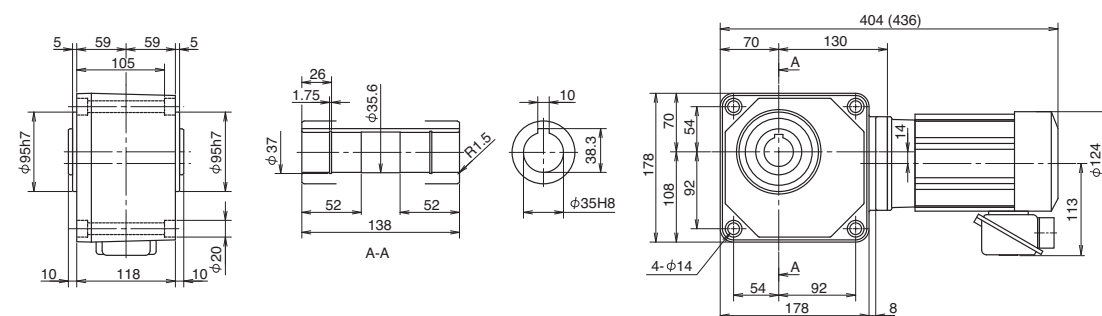


Fig. 2

RNYM02-1430-AV-80~240
(RNYM02-1430-AV-B-80~240)

Mass 16kg
(Mass 17kg)



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.



0.2kW Motor for inverter



0.2
kW

RNYM Series Hollow Shaft Type

Motor Speed n_1	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Frame Size - Suffix - Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf		
0.58	5.83	11.7 (120Hz)	262	26.7	1.00	4360	445	02 - 1440 - AV - 300	3
					2.00	6230	635	02 - 1540 - AV - 300	4
0.49	4.86	9.72 (120Hz)	315	32.1	1.00	4360	445	02 - 1440 - AV - 360	3
					2.00	6230	635	02 - 1540 - AV - 360	4
0.36	3.65	7.29 (120Hz)	420	42.8	*	4360	445	02 - 1440 - AV - 480	3
					1.74	6230	635	02 - 1540 - AV - 480	4
0.29	2.92	5.83 (120Hz)	525	53.5	*	4360	445	02 - 1440 - AV - 600	3
					1.39	6230	635	02 - 1540 - AV - 600	4
0.24	2.43	4.86 (120Hz)	629	64.2	*	4360	445	02 - 1440 - AV - 720	3
					1.16	6230	635	02 - 1540 - AV - 720	4
0.19	1.94	3.89 (120Hz)	732	74.6	*	4360	445	02 - 1440 - AV - 900	3
					*	6230	635	02 - 1540 - AV - 900	4
0.15	1.46	2.92 (120Hz)	732	74.6	*	4360	445	02 - 1440 - AV - 1200	3
					*	6230	635	02 - 1540 - AV - 1200	4
0.12	1.22	2.43 (120Hz)	732	74.6	*	4360	445	02 - 1440 - AV - 1440	3
					*	6230	635	02 - 1540 - AV - 1440	4

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 3

RNYM02-1440-AV-300~1440
(RNYM02-1440-AV-B-300~1440)

Mass 17kg
(Mass 18kg)

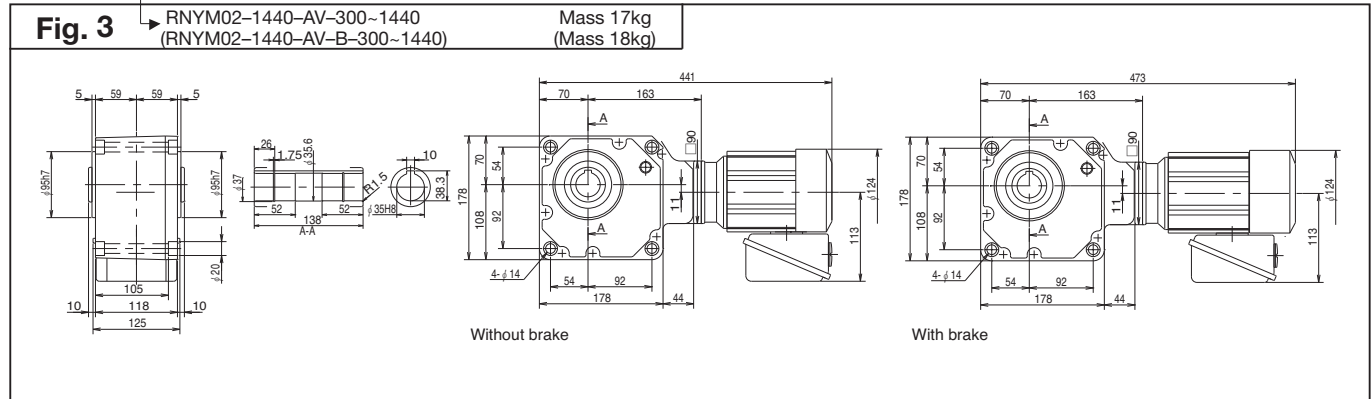
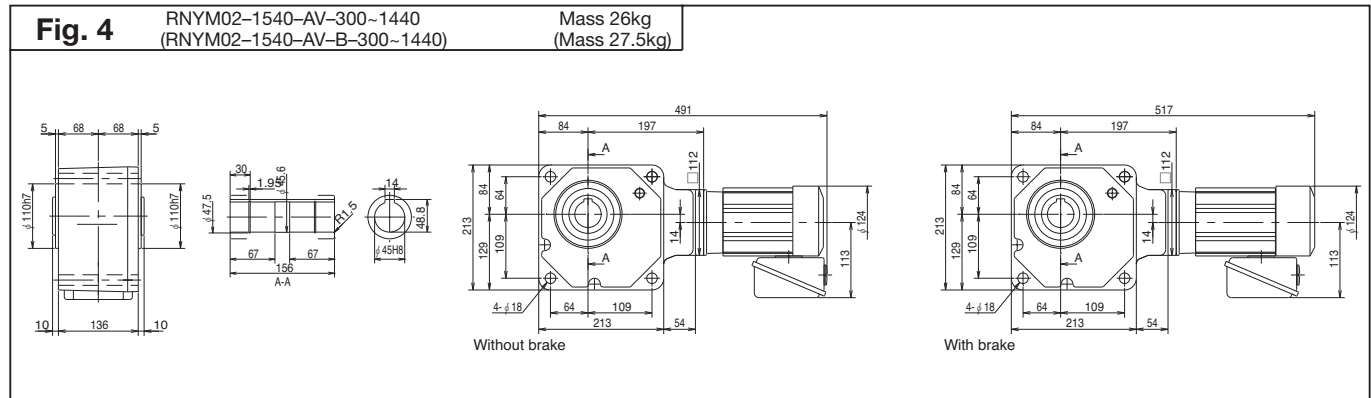


Fig. 4

RNYM02-1540-AV-300~1440
(RNYM02-1540-AV-B-300~1440)

Mass 26kg
(Mass 27.5kg)



- Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
 2. Output shaft keyway dimensions : Dimension tolerance in 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	60Hz 1750r/min
-------------------	----------------

Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Size - Suffix - Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf		
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz		
35.0	350	700 (120Hz)	9.29	0.947	1.88	1370	140	05 - 1310 - AV - 5	1
								05 - 1320 - AV - 5	2
25.0	250	500 (120Hz)	13.0	1.33	1.88	1570	160	05 - 1310 - AV - 7	1
								05 - 1320 - AV - 7	2
17.5	175	350 (120Hz)	18.6	1.89	1.88	1720	175	05 - 1310 - AV - 10	1
								05 - 1320 - AV - 10	2
14.6	146	292 (120Hz)	22.3	2.27	1.88	1810	185	05 - 1320 - AV - 12	2
11.7	117	234 (120Hz)	27.9	2.84	1.88	1960	200	05 - 1320 - AV - 15	
8.75	87.5	175 (120Hz)	37.2	3.79	1.88	2160	220	05 - 1320 - AV - 20	
7.00	70.0	140 (120Hz)	46.4	4.74	1.88	2260	230	05 - 1320 - AV - 25	
5.83	58.3	117 (120Hz)	55.7	5.68	1.88	2350	240	05 - 1320 - AV - 30	3
4.38	43.8	87.6 (120Hz)	74.3	7.58	1.88	3820	390	05 - 1420 - AV - 40	
3.50	35.0	70.0 (120Hz)	92.9	9.47	1.88	4020	410	05 - 1420 - AV - 50	
2.92	29.2	58.4 (120Hz)	111	11.4	1.88	4170	425	05 - 1420 - AV - 60	

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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.

4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
Refer to page A223 for details.

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

Fig. 1

RNYM05-1310-AV-5-10
(RNYM05-1310-AV-B-5-10)

Mass 13kg
(Mass 16kg)

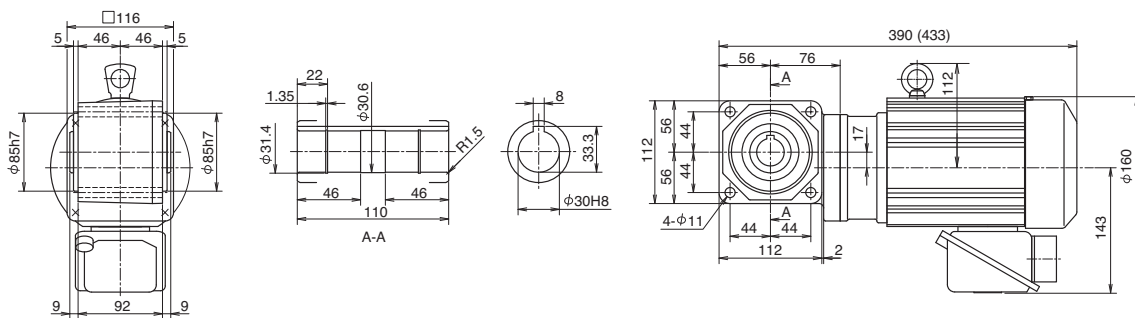


Fig. 2

RNYM05-1320-AV-5-30
(RNYM05-1320-AV-B-5-30)

Mass 15kg
(Mass 17kg)

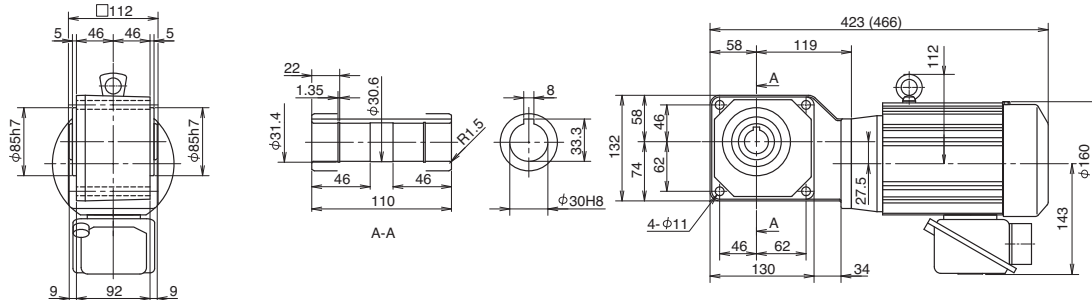
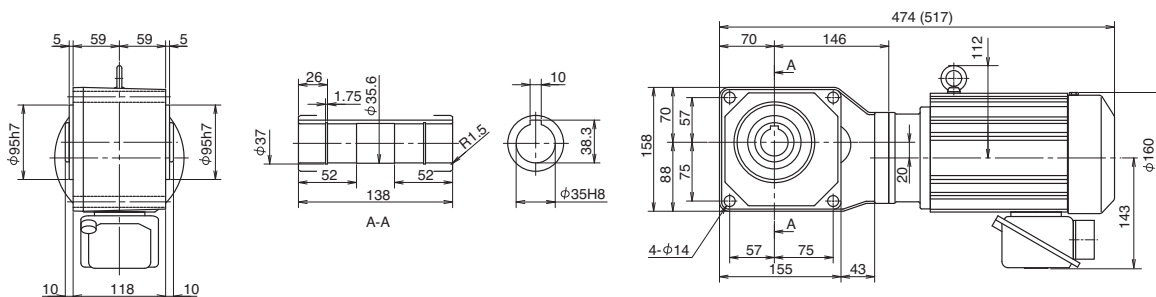


Fig. 3

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

Mass 18kg
(Mass 20kg)



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 Motor for inverter



0.4
kW

RNYM Series Hollow Shaft Type

Motor Speed n_1	60Hz 1750r/min
-------------------	----------------

Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Outline Drawing Fig.
			Nm	kgf m		N	kgf					
6Hz	60Hz	Allowable max speed	60Hz	60Hz		60Hz	60Hz					
2.19	21.9	43.8 (120Hz)	149	15.2	1.88	6130	625	05	1530	AV	80	4
1.75	17.5	35.0 (120Hz)	186	18.9	1.88	6230	635	05	1530	AV	100	
1.46	14.6	29.2 (120Hz)	223	22.7	1.88	6230	635	05	1530	AV	120	
1.17	11.7	23.4 (120Hz)	279	28.4	1.88	6230	635	05	1530	AV	150	
0.875	8.75	17.5 (120Hz)	372	37.9	1.88	6230	635	05	1530	AV	200	
0.729	7.29	14.6 (120Hz)	446	45.5	1.69	6230	635	05	1530	AV	240	
0.583	5.83	11.7 (120Hz)	525	53.5	2.00	9810	1000	05	1640	AV	300	5
0.486	4.86	9.72 (120Hz)	630	64.2	2.00	9810	1000	05	1640	AV	360	
0.365	3.65	7.29 (120Hz)	840	85.6	1.76	9810	1000	05	1640	AV	480	
0.292	2.92	5.83 (120Hz)	1050	107	1.41	9810	1000	05	1640	AV	600	
0.243	2.43	4.86 (120Hz)	1260	128	1.18	9810	1000	05	1640	AV	720	
0.194	1.94	3.89 (120Hz)	1480	151	*	9810	1000	05	1640	AV	900	
0.146	1.46	2.92 (120Hz)	1480	151	*	9810	1000	05	1640	AV	1200	
0.122	1.22	2.43 (120Hz)	1480	151	*	9810	1000	05	1640	AV	1440	

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 4

RNYM05-1530-AV-80~240
 (RNYM05-1530-AV-B-80~240) Mass 25kg
 (Mass 28kg)

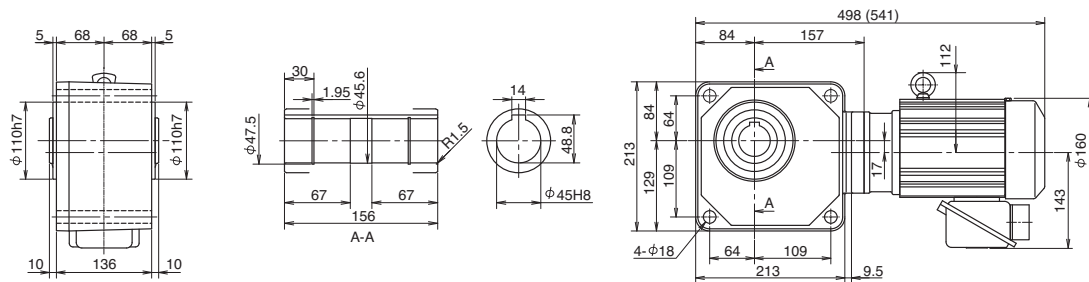
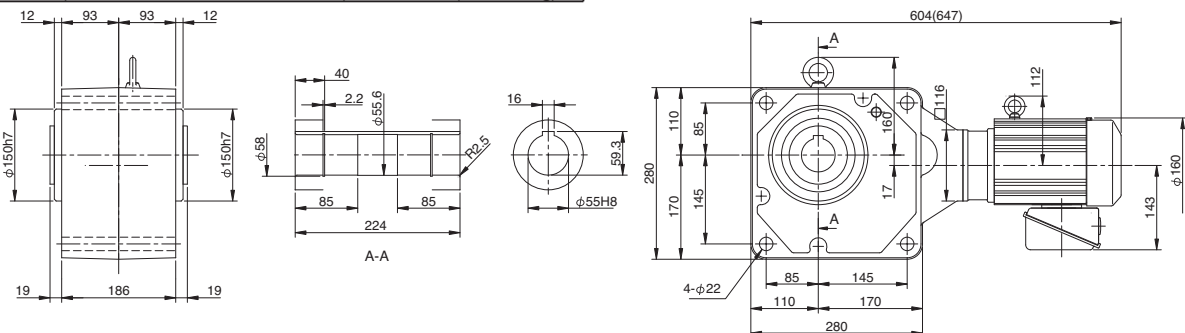


Fig.5

RNYM05-1640-AV-300~1440
 (RNYM05-1640-AV-B-300~1440) Mass 68kg
 (Mass 70kg)



- 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	60Hz	1750r/min
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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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
Refer to page A223 for details.

[illegible]

Technical drawing of the 1000W motor showing front and side views with dimensions in mm and inches.

Front View Dimensions:

- Total width: 534 (596)
- Distance from left face to center of mounting holes: 84
- Distance between mounting holes: 178
- Distance from center of mounting holes to center of shaft: 28
- Distance from left face to center of shaft: 178
- Distance from center of shaft to right face: 68
- Distance from left face to center of mounting holes: 84
- Distance from center of mounting holes to center of shaft: 28
- Distance from center of shaft to right face: 68
- Distance from left face to center of mounting holes: 84
- Distance from center of mounting holes to center of shaft: 28
- Distance from center of shaft to right face: 68

Side View Dimensions:

- Total height: 148
- Distance from top face to center of shaft: 117
- Distance from center of shaft to bottom face: 117
- Distance from top face to center of mounting holes: 84
- Distance from center of mounting holes to center of shaft: 28
- Distance from center of shaft to bottom face: 68

Other Dimensions:

- 4-φ14 (4 holes of diameter 14 mm)
- φ169 (shaft diameter)

#Sumitomo Gear Motor#www.VictorySystem.co.th.Tel:0891042983 LINE OA:@hipower89 Email: victorysystem@gmail.com

RNYM Series Hollow Shaft Type

Motor Speed n_1	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Size - Suffix - Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	60Hz	60Hz		N	kgf		
2.19	21.9	43.8 (120Hz)	279	28.4	2.00	6130	625	1 - 1531 - AV - 80	4
1.75	17.5	35.0 (120Hz)	348	35.5	2.93	9810	1000	1 - 1630 - AV - 100	5
1.46	14.6	29.2 (120Hz)	418	42.6	2.93	9810	1000	1 - 1630 - AV - 120	
1.17	11.7	23.3 (120Hz)	522	53.3	2.83	9810	1000	1 - 1631 - AV - 150	6
0.875	8.75	17.5 (120Hz)	697	71.0	2.13	9810	1000	1 - 1631 - AV - 200	
0.729	7.29	14.6 (120Hz)	836	85.2	1.77	9810	1000	1 - 1631 - AV - 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.

4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.

Refer to page A223 for details.

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

Fig. 4

RNYM1-1531-AV-80
(RNYM1-1531-AV-B-80) Mass 30kg
(Mass 34kg)

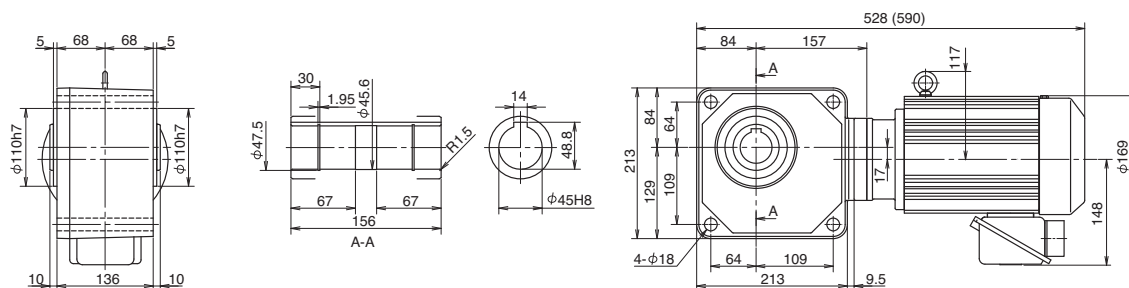


Fig. 5

RNYM1-1630-AV-100-120
(RNYM1-1630-AV-B-100-120) Mass 52kg
(Mass 56kg)

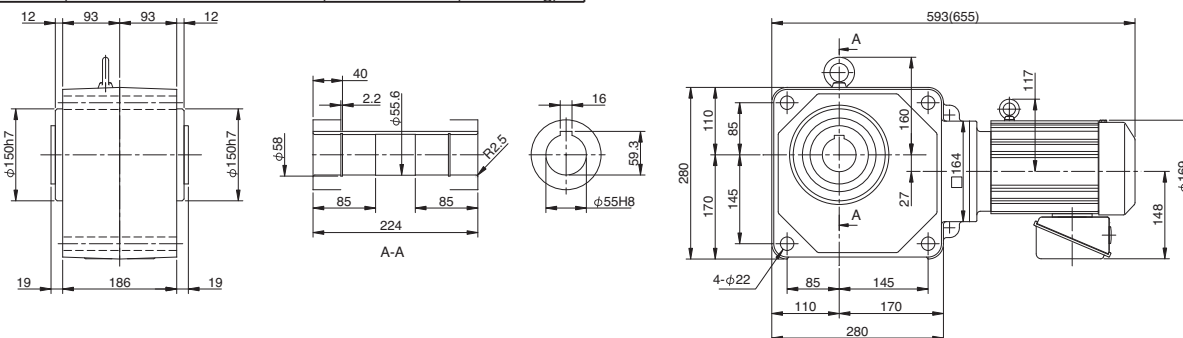
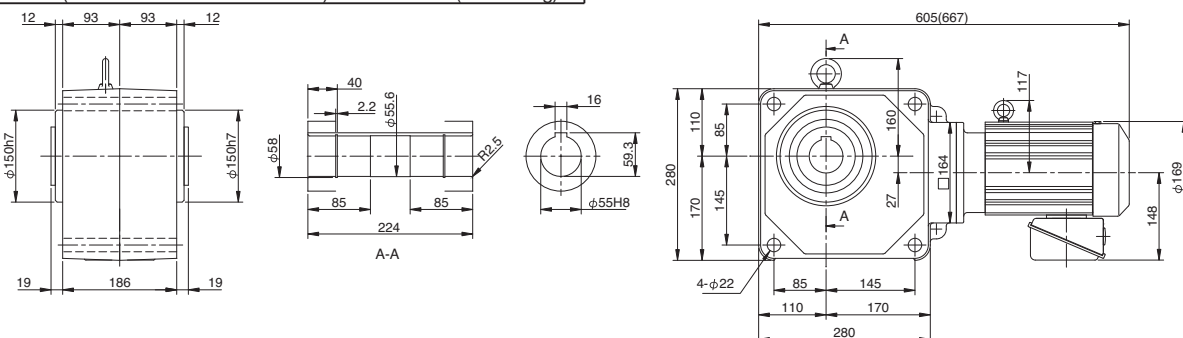


Fig. 6

RNYM1-1631-AV-150-240
(RNYM1-1631-AV-B-150-240) Mass 53kg
(Mass 57kg)



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	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol - Size - Suffix - Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf		
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz		
35.0	350	700 (120Hz)	34.8	3.55	3.67	2940	300	2 - 1510 - AV - 5	1
					1.47			2 - 1520 - AV - 5	2
25.0	250	500 (120Hz)	48.8	4.97	2.47	3330	340	2 - 1510 - AV - 7	1
					1.47			2 - 1520 - AV - 7	2
17.5	175	350 (120Hz)	69.7	7.10	1.47	3730	380	2 - 1510 - AV - 10	1
								2 - 1520 - AV - 10	2
14.6	146	292 (120Hz)	83.6	8.52	1.47	3970	405	2 - 1520 - AV - 12	2
11.7	117	234 (120Hz)	104	10.7	1.47	4220	430	2 - 1520 - AV - 15	
8.75	87.5	175 (120Hz)	139	14.2	1.47	4610	470	2 - 1520 - AV - 20	
7.00	70.0	140 (120Hz)	174	17.8	1.47	4900	500	2 - 1520 - AV - 25	
5.83	58.3	117 (120Hz)	209	21.3	1.47	5150	525	2 - 1520 - AV - 30	3
4.38	43.8	87.6 (120Hz)	279	28.4	1.47	5540	565	2 - 1531 - AV - 40	
3.50	35.0	70.0 (120Hz)	348	35.5	1.47	5830	595	2 - 1531 - AV - 50	
2.92	29.2	58.4 (120Hz)	418	42.6	1.47	6030	615	2 - 1531 - AV - 60	

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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.

4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.

Refer to page A223 for details.

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

Fig. 1

RNYM2-1510-AV-5~10
(RNYM2-1510-AV-B-5~10)

Mass 29kg
(Mass 35kg)

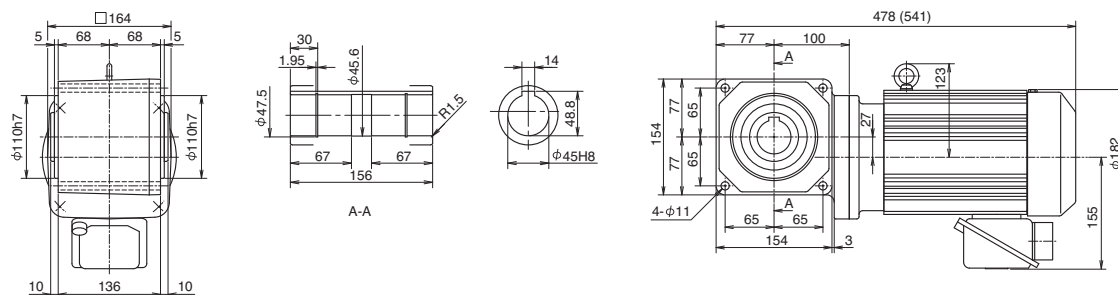


Fig. 2

RNYM2-1520-AV-5~30
(RNYM2-1520-AV-B-5~30)

Mass 34kg
(Mass 39kg)

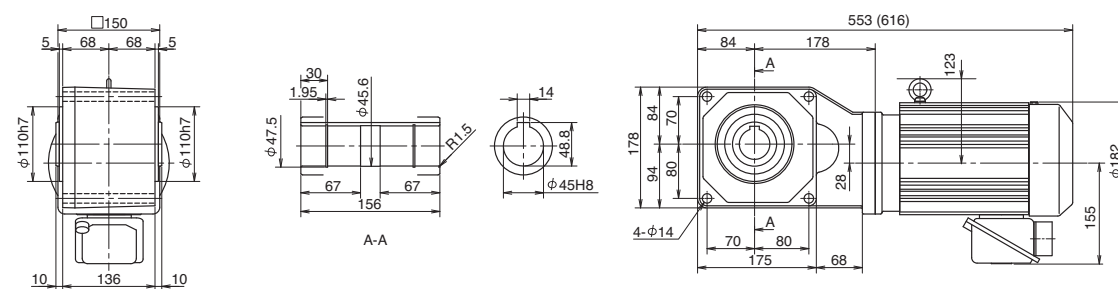
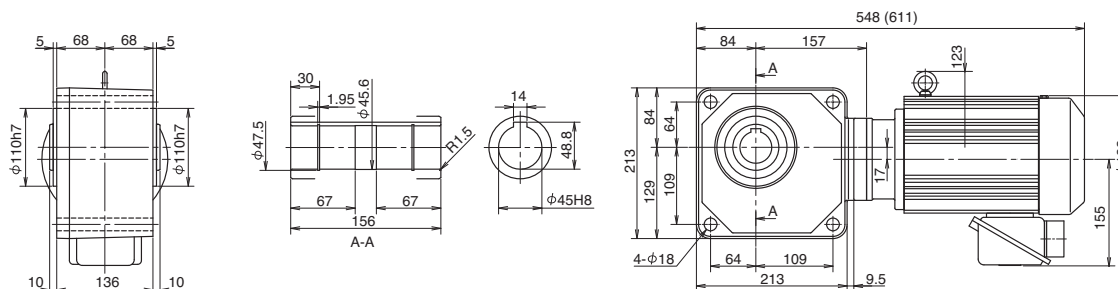


Fig. 3

RNYM2-1531-AV-40~60
(RNYM2-1531-AV-B-40~60)

Mass 34kg
(Mass 39kg)



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.

1.5kW Motor for inverter



1.5
kW

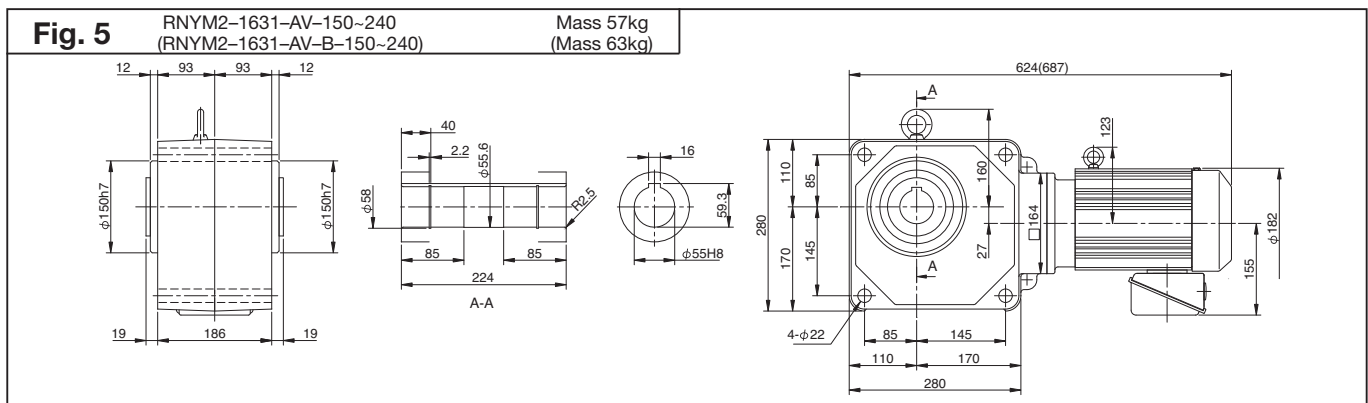
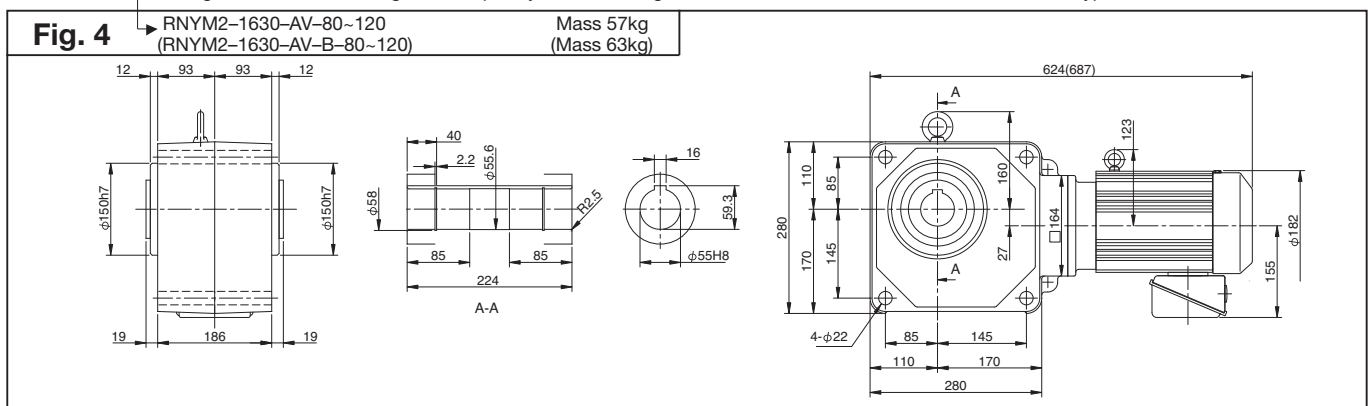
RNYM Series Hollow Shaft Type

Motor Speed n_1	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf					
6Hz	60Hz	Allowable max speed	60Hz	60Hz		60Hz	60Hz					
2.19	21.9	43.8 (120Hz)	557	56.8	1.47	9660	985	2	1630	AV	80	4
1.75	17.5	35.0 (120Hz)	697	71.0	1.47	9810	1000	2	1630	AV	100	4
1.46	14.6	29.2 (120Hz)	836	85.2	1.47	9810	1000	2	1630	AV	120	4
1.17	11.7	23.3 (120Hz)	1040	107	1.42	9810	1000	2	1631	AV	150	5
0.875	8.75	17.5 (120Hz)	1390	142	1.06	9810	1000	2	1631	AV	200	
0.729	7.29	14.6 (120Hz)	1480	151	*	9810	1000	2	1631	AV	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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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



- 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.



Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol	Frame Size	-Suffix-	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm 60Hz	kgf m 60Hz		N 60Hz	kgf 60Hz					
35.0	350	350 (60Hz)	51.1	5.21	1.68	2940	300	3	1521	AV	5	1
25.0	250	250 (60Hz)	71.5	7.29	1.68	3330	340	3	1521	AV	7	
17.5	175	175 (60Hz)	102	10.4	1.68	3730	380	3	1521	AV	10	
14.6	146	146 (60Hz)	123	12.5	1.68	3970	405	3	1521	AV	12	
11.7	117	117 (60Hz)	153	15.6	1.68	4220	430	3	1521	AV	15	
8.75	87.5	87.5 (60Hz)	204	20.8	1.68	4610	470	3	1521	AV	20	1
7.00	70.0	70.0 (60Hz)	255	26.0	1.68	4900	500	3	1521	AV	25	1
5.83	58.3	117 (120Hz)	307	31.3	1.68	8090	825	3	1632	AV	30	2
4.38	43.8	87.5 (120Hz)	409	41.7	1.68	8480	865	3	1632	AV	40	
3.50	35.0	70.0 (120Hz)	511	52.1	1.68	8880	905	3	1632	AV	50	
2.92	29.2	58.3 (120Hz)	613	62.5	1.68	9270	945	3	1632	AV	60	

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 1

RNYM3-1521-AV-5-25
(RNYM3-1521-AV-B-5-25)

Mass 50kg
(Mass 61kg)

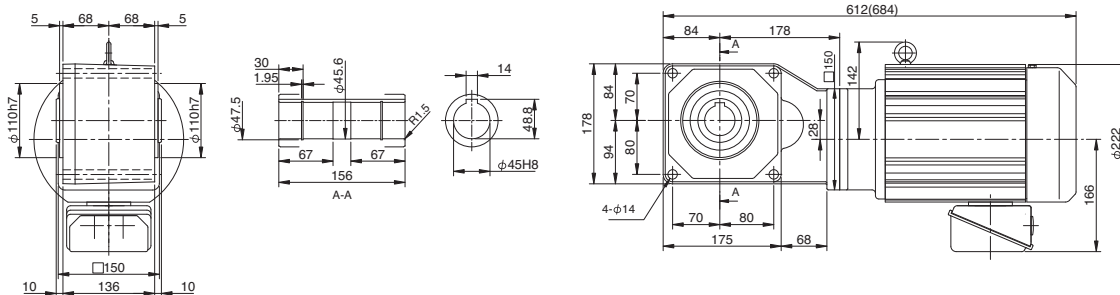
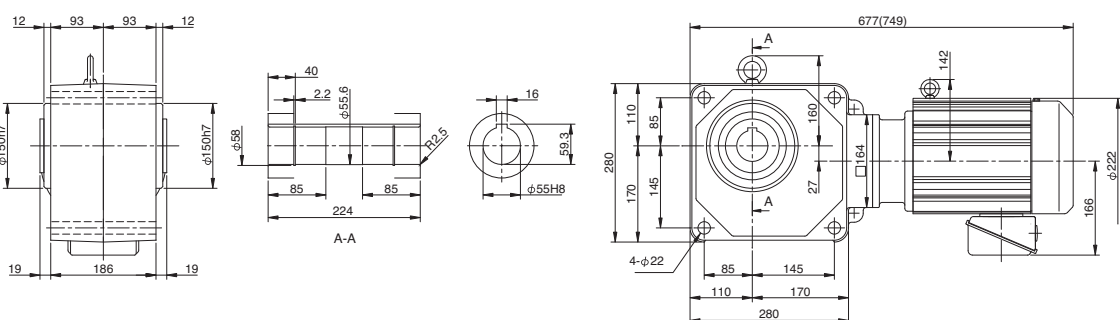


Fig. 2

RNYM3-1632-AV-30-60
(RNYM3-1632-AV-B-30-60)

Mass 69kg
(Mass 80kg)



- 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.



3.7kW Motor for inverter

RNYM Series Hollow Shaft Type



3.7
kW

Motor Speed n ₁	60Hz 1750r/min
----------------------------	----------------

Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol	Frame Size	-Suffix-	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf					
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz					
35.0	350	350 (60Hz)	85.9	8.76	1.49	2940	300	5 - 1522	AV	- 5		3
25.0	250	250 (60Hz)	120	12.3	1.49	3330	340	5 - 1522	AV	- 7		
17.5	175	175 (60Hz)	172	17.5	1.49	3730	380	5 - 1522	AV	- 10		
14.6	146	146 (60Hz)	206	21.0	1.49	3970	405	5 - 1522	AV	- 12		
11.7	117	117 (60Hz)	258	26.3	1.49	4220	430	5 - 1522	AV	- 15		
8.75	87.5	117 (80Hz)	344	35.0	1.49	7350	750	5 - 1633	AV	- 20		4
7.00	70.0	93.4 (80Hz)	430	43.8	1.49	7750	790	5 - 1633	AV	- 25		
5.83	58.3	77.8 (80Hz)	516	52.6	1.49	8090	825	5 - 1633	AV	- 30		
4.38	43.8	58.3 (80Hz)	687	70.1	1.49	8480	865	5 - 1633	AV	- 40		

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 3

RNYM5-1522-AV-5~15
(RNYM5-1522-AV-B-5~15)

Mass 57kg
(Mass 68kg)

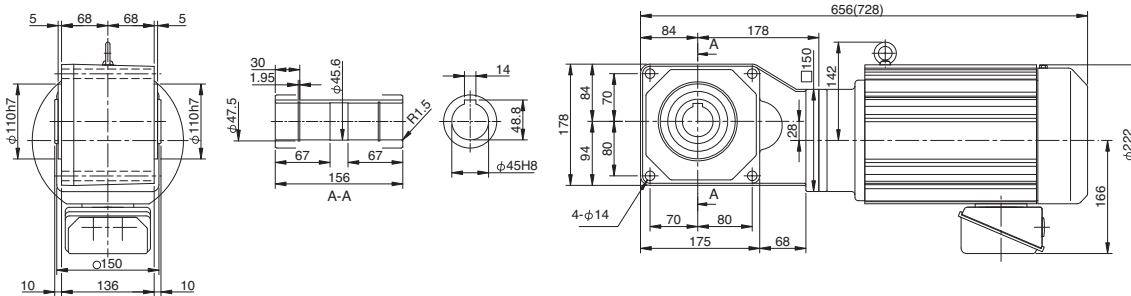
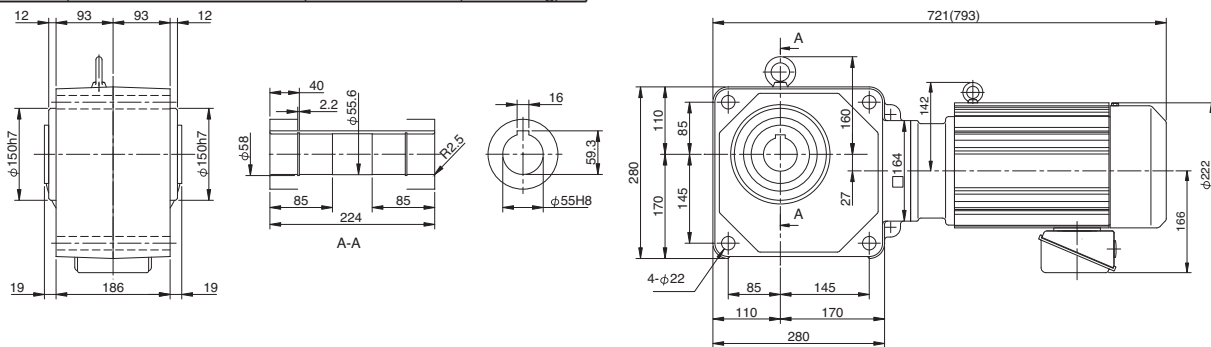


Fig. 4

RNYM5-1633-AV-20~40
(RNYM5-1633-AV-B-20~40)

Mass 77kg
(Mass 88kg)



- 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.



5.5kW Motor for inverter

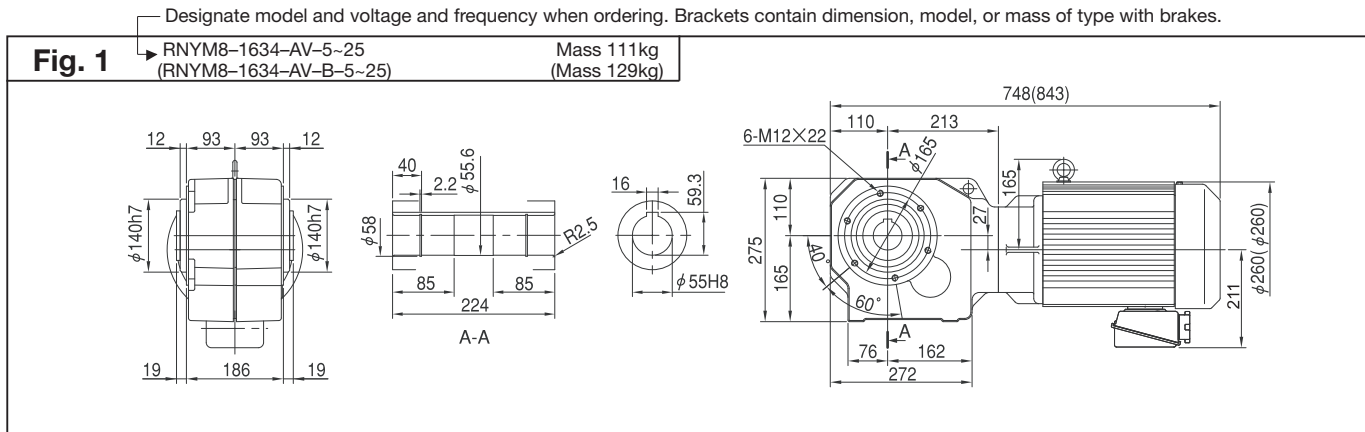
RNYM Series Hollow Shaft Type



Motor Speed n_1	60Hz	1750r/min
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Output speed n_2 r/min			Output Torque T_{out}		SF	Allowable Pro		Capacity Symbol	Frame Size	-Suffix-	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf					
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz					
35.0	350	350 (60Hz)	128	13.0	2.00	4760	485	8 - 1634 - AV	- 5			1
25.0	250	250 (60Hz)	179	18.2	2.00	5250	535	8 - 1634 - AV	- 7			
17.5	175	175 (60Hz)	255	26.0	2.00	5930	605	8 - 1634 - AV	- 10			
14.6	146	146 (60Hz)	307	31.3	2.00	6330	645	8 - 1634 - AV	- 12			
11.7	117	117 (60Hz)	383	39.1	2.00	6670	680	8 - 1634 - AV	- 15			
8.75	87.5	87.5 (60Hz)	511	52.1	2.00	7350	750	8 - 1634 - AV	- 20			
7.00	70.0	70.0 (60Hz)	639	65.1	2.00	7750	790	8 - 1634 - AV	- 25			

- 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. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors. Refer to page A223 for details.



- 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.



7.5kW Motor for inverter



7.5
kW

RNYM Series Hollow Shaft Type

Motor Speed n ₁	60Hz 1750r/min
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Output speed n ₂ r/min			Output Torque Tout		SF	Allowable Pro		Capacity Symbol - Size -Suffix -	Reduction Ratio	Outline Drawing Fig.
6Hz	60Hz	Allowable max speed	Nm	kgf m		N	kgf			
60Hz	60Hz	60Hz	60Hz	60Hz		60Hz	60Hz			
35.0	350	350 (60Hz)	174	17.8	1.47	4760	485	10 - 1634 - AV - 5	5	2
25.0	250	250 (60Hz)	244	24.9	1.47	5250	535	10 - 1634 - AV - 7	7	
17.5	175	175 (60Hz)	348	35.5	1.47	5930	605	10 - 1634 - AV - 10	10	
14.6	146	146 (60Hz)	418	42.6	1.47	6330	645	10 - 1634 - AV - 12	12	
11.7	117	117 (60Hz)	522	53.3	1.47	6670	680	10 - 1634 - AV - 15	15	
8.75	87.5	87.5 (60Hz)	697	71.0	1.47	7350	750	10 - 1634 - AV - 20	20	

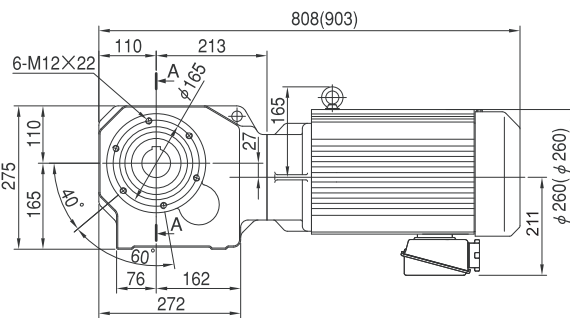
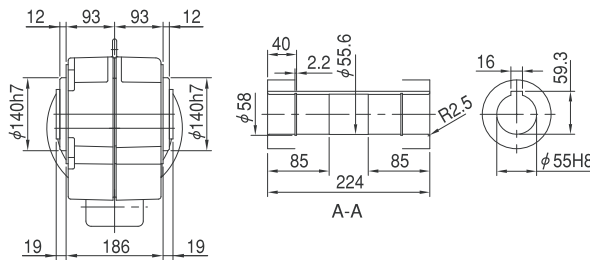
- Notes : 1. Motor slippage may affect n₁ and n₂.
 2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.
 3. Usage of motor for inverters enables constant torque operation (continuous operation) within range of 6-60Hz.
 4. Sensorless operation using our inverter (HF-320) enables constant torque operation using general-purpose motors.
 Refer to page A223 for details.

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

Fig. 2

RNYM10-1634-AV-5~20
 (RNYM10-1634-AV-B-5~20)

Mass 125kg
 (Mass 143kg)



- 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.

Hollow Shaft

Motor for inverter

