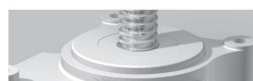
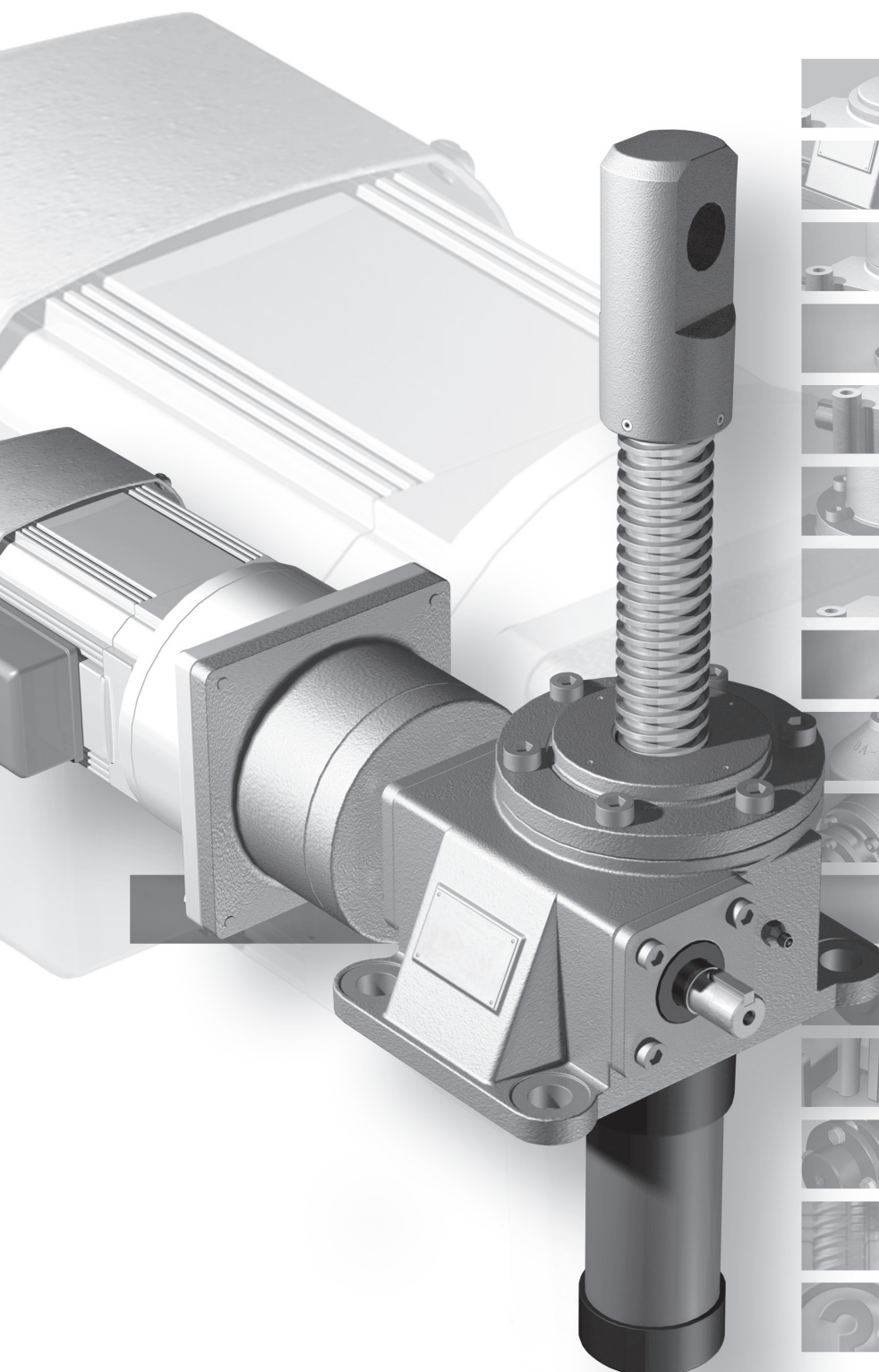


Geared Motor Jack

Wide variety of models, which meet your purpose and are available to use immediately upon installation

11



Small Screw Jack /01



Screw Jack /02



Ball Small Jack /03



Ball Screw Jack /04



High-Lead Screw Jack /05



High-Lead Ball Screw Jack /06



Smoothy Screw Jack /07



Rack Jack /08



Bevel Gear Type Jack /09



Hi-Speed Jack /10

**Geared Motor Jack /11**

Option /12



Bevel Gear Box /13



Coupling /14



Technical Data /15

Q&A, Caution and
Other Information /16

Product
Code
Number

Produce Code Number

When you place an order, please quote a product code number.

J2G H U K 0200 B C L G 15 H B L

Series/size code

RMG~J3G
or
RSB~J3B

Profile

Upright: U
Inverted: I

Stroke length

Indicated by
4-digit figure in
millimeters (mm)

Worm gear ratio

High-speed type: H
Low-speed type: L

Dustproof bellows to protect lifting screw

With bellows: B
Without bellows: N

Lifting screw spec.

With anti-rotation key: K
Without anti-rotation key: N
Traveling nut type: T

Screw end shape & end fittings

Without end fittings: S
Clevis: C
Flange: F
Plain end: B

Brake

With brake: B
Without brake: N

Motor reduction ratio

Code	Reduction ratio
H	i=3
M	i=5
L	i=10

* We can manufacture jacks with other reduction ratios. Please consult with us.

Motor capacity

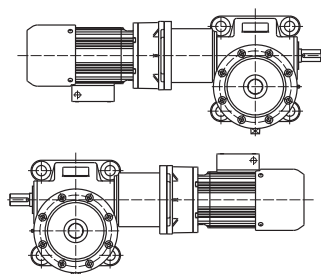
Code	Motor capacity
01	0.1 kW
02	0.2 kW
04	0.4 kW
07	0.75 kW
15	1.5 kW
22	2.2 kW
37	3.7 kW

Accessories

With geared limit switch: L
With encoder: E
Without accessory: N

With geared motor: G

Geared motor setting direction



Geared motor
in the right: R

Geared motor
in the left: L

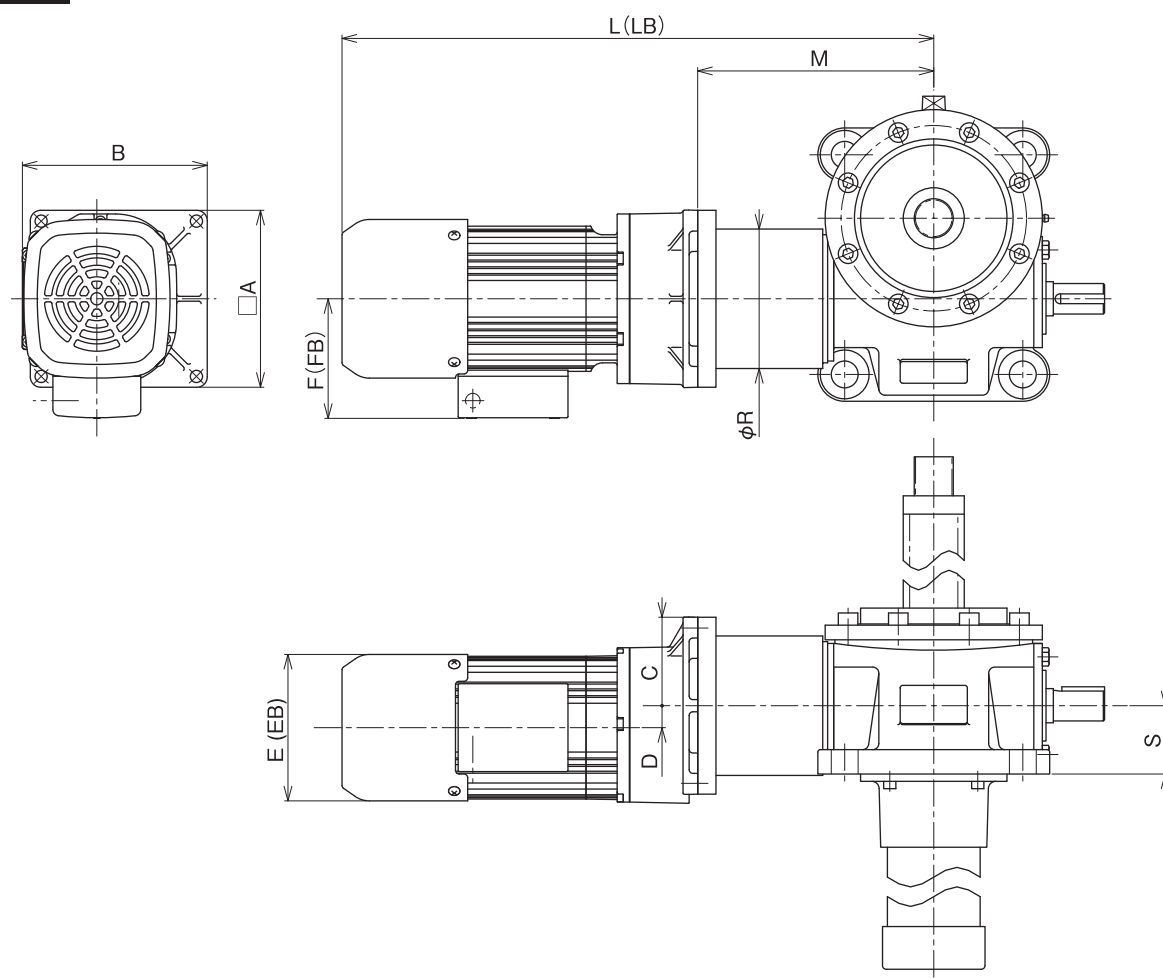
Example of Product Code Number

[Example] J2G H U K 0200 B C L G 15 H B L

[Specification]

Series/size - J2G; worm gear ratio - high-speed type (1/6); upright; with anti-rotation key; stroke - 200 mm; with dustproof bellows; clevis; geared limit switch RF (standard) attached; geared motor - 1.5kW, i=3, with brake, and geared motor set in the left

Dimensional Drawing: Geared Motor Jack



Jack with Geared Motor ($i = 3, 5, 10$) Measurement Table

Series/ size	Motor capacity (kW)	A	B	C	D	E	EB	F	FB	L	LB	M	R	S
RM*	0.1	145	—	72.5	15	105	108	87	92	291	342	108.5	76	27.5
RS*	0.1	145	—	72.5	15	105	108	87	92	301	352	118.5	76	30
	0.2					108				326	374			
JO*	0.1	145	—	72.5	15	105	108	87	92	309	360	126.5	76	40
	0.2					108				334	382			
	0.4		152.5			18				120	120			
J1*	0.2	145	—	72.5	15	108	108	87	92	339	387	131.5	89	45
	0.4		152.5		18	120	120	93	98	371	423			
	0.75	185	193	92.5	20	150	150	138	138	472	535	162.5	101	
	1.5	205	221.5	102.5	30	175	175	148	148	546.5	618.5	182.5		
J2*	0.4	145	152.5	72.5	18	120	120	93	98	402	454	162.5	104	56
	0.75	185	193	92.5	20	150	150	138	138	492	555	182.5		
	1.5	205	221.5	102.5	30	175	175	148	148	566.5	638.5	202.5		
	2.2	255	268.5	127.5		206	206	160	160	612.5	679.5			
J3*	0.75	185	193	92.5	20	150	150	138	138	504.5	567.5	195	120	56
	1.5	205	221.5	102.5	30	175	175	148	148	579	651	215		
	2.2	255	268.5	127.5		206	206	160	160	625	692			
	3.7	315	329.5	157.5	40	235	235	174	174	725	800	238.5		

Notes: 1. Data for LB, FB, and EB represents data of jacks with brakes.
2. Data for R represents dimensions of casting.

Table of
Lifting screw
speed

Lifting speed Table

Screw Jack

Series/ size	Motor capacity (kW)	Motor reduction ratio	Worm gear ratio: H				Worm gear ratio: L			
			Frequency 50Hz		Frequency 60Hz		Frequency 50Hz		Frequency 60Hz	
			Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)
RMG	0.1	i = 3	500	2.0	600	1.9				
		i = 5	300	2.0	360	2.0				
		i = 10	150	2.0	180	2.0				
RSG	0.1	i = 3	400	2.7	480	2.3	83	5.0	100	5.0
		i = 5	240	4.8	288	4.1	50	5.0	60	5.0
		i = 10	120	5.0	144	5.0	25	5.0	30	5.0
	0.2	i = 3	400	5.0	480	4.8				
		i = 5	240	5.0	288	5.0				
		i = 10	120	5.0	144	5.0				
JOG	0.1	i = 3	400	2.4	480	2.1	83	6.6	100	5.5
		i = 5	240	4.5	288	3.8	50	10.0	60	10.0
		i = 10	120	9.8	144	8.0	25	10.0	30	10.0
	0.2	i = 3	400	5.6	480	4.5	83	10.0	100	10.0
		i = 5	240	9.8	288	8.0	50	10.0	60	10.0
		i = 10	120	10.0	144	10.0	25	10.0	30	10.0
	0.4	i = 3	400	10.0	480	9.2				
		i = 5	240	10.0	288	10.0				
		i = 10	120	10.0	144	10.0				
J1G	0.2	i = 3	417	3.9	500	3.0	104	10.0	125	7.6
		i = 5	250	7.7	300	6.1	62.5	19.6	75	15.6
		i = 10	125	17.4	150	13.5	31	25.0	37.5	25.0
	0.4	i = 3	417	9.0	500	7.3	104	22.5	125	18.0
		i = 5	250	19.0	300	14.2	62.5	25.0	75	25.0
		i = 10	125	25.0	150	25.0	31	25.0	37.5	25.0
	0.75	i = 3	417	20.6	500	15.8	104	25.0	125	25.0
		i = 5	250	25.0	300	25.0	62.5	25.0	75	25.0
		i = 10	125	25.0	150	25.0	31	25.0	37.5	25.0
	1.5	i = 3	417	25.0	500	25.0				
		i = 5	250	25.0	300	25.0				
		i = 10	125	25.0	150	25.0				
J2G	0.4	i = 3	667	4.7	800	3.6	167	10.9	200	8.3
		i = 5	400	11.1	480	8.0	100	25.5	120	18.5
		i = 10	200	23.2	240	19.1	50	50.0	60	44.1
	0.75	i = 3	667	12.1	800	9.0	167	27.9	200	20.9
		i = 5	400	22.2	480	18.1	100	50.0	120	41.8
		i = 10	200	43.2	240	37.3	50	50.0	60	50.0
	1.5	i = 3	667	25.2	800	20.2	167	50.0	200	46.5
		i = 5	400	44.4	480	36.3	100	50.0	120	50.0
		i = 10	200	50.0	240	50.0	50	50.0	60	50.0
	2.2	i = 3	667	37.3	800	31.3				
		i = 5	400	50.0	480	50.0				
		i = 10	200	50.0	240	50.0				
J3G	0.75	i = 3	625	11.3	750	8.2	208	25.0	250	18.1
		i = 5	375	21.5	450	17.5	125	47.7	150	38.6
		i = 10	187.5	45.3	225	37.1	62.5	100.0	75	81.8
	1.5	i = 3	625	24.7	750	19.5	208	54.5	250	43.0
		i = 5	375	44.3	450	36.0	125	97.7	150	79.5
		i = 10	187.5	91.7	225	75.2	62.5	100.0	75	100.0
	2.2	i = 3	625	37.1	750	30.9	208	81.8	250	68.1
		i = 5	375	68.0	450	55.6	125	100.0	150	100.0
		i = 10	187.5	100.0	225	100.0	62.5	100.0	75	100.0
	3.7	i = 3	625	57.9	750	47.7				
		i = 5	375	98.6	450	81.6				
		i = 10	187.5	100.0	225	100.0				

Ball Screw Jack

Series/ size	Motor capacity (kW)	Motor reduction ratio	Worm gear ratio: H				Worm gear ratio: L			
			Frequency 50Hz		Frequency 60Hz		Frequency 50Hz		Frequency 60Hz	
			Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)	Lifting speed (mm/min)	Load (kN)
RSB	0.1	i = 3	500	4.0	600	4.0	104	4.0	125	4.0
		i = 5	300	4.0	360	4.0	62.5	4.0	75	4.0
		i = 10	150	4.0	180	4.0	31	4.0	37.5	4.0
JOB	0.1	i = 3	500	5.1	600	4.4	104	10.0	125	10.0
		i = 5	300	9.5	360	8.1	62.5	10.0	75	10.0
		i = 10	150	10.0	180	10.0	31	10.0	37.5	10.0
	0.2	i = 3	500	10.0	600	9.6				
		i = 5	300	10.0	360	10.0				
		i = 10	150	10.0	180	10.0				
J1B	0.1	i = 3	666	2.0	800	1.4	166	5.8	200	4.1
		i = 5	400	5.4	480	4.2	100	15.8	120	12.5
		i = 10	200	14.0	240	11.1	50	25.0	60	25.0
	0.2	i = 3	666	7.1	800	5.4	166	20.5	200	15.5
		i = 5	400	14.0	480	11.1	100	25.0	120	25.0
		i = 10	200	25.0	240	25.0	50	25.0	60	25.0
	0.4	i = 3	666	16.2	800	13.1	166	25.0	200	25.0
		i = 5	400	25.0	480	25.0	100	25.0	120	25.0
		i = 10	200	25.0	240	25.0	50	25.0	60	25.0
	0.75	i = 3	666	25.0	800	25.0				
		i = 5	400	25.0	480	25.0				
		i = 10	200	25.0	240	25.0				
J2B	0.4	i = 3	833	10.6	1000	8.1	208	23.5	250	18.0
		i = 5	500	25.0	600	18.1	125	50.0	150	40.0
		i = 10	250	50.0	300	43.1	62.5	50.0	75	50.0
	0.75	i = 3	833	27.2	1000	20.4	208	50.0	250	45.0
		i = 5	500	50.0	600	40.9	125	50.0	150	50.0
		i = 10	250	50.0	300	50.0	62.5	50.0	75	50.0
	1.5	i = 3	833	50.0	1000	45.4	208	50.0	250	50.0
		i = 5	500	50.0	600	50.0	125	50.0	150	50.0
		i = 10	250	50.0	300	50.0	62.5	50.0	75	50.0
	2.2	i = 3	833	50.0	1000	50.0				
		i = 5	500	50.0	600	50.0				
		i = 10	250	50.0	300	50.0				
J3B	0.75	i = 3	750	26.1	900	19.0	250	57.8	300	42.0
		i = 5	450	50.0	540	40.4	150	100.0	180	89.4
		i = 10	225	100.0	270	85.7	75	100.0	90	100.0
	1.5	i = 3	750	57.1	900	45.2	250	100.0	300	100.0
		i = 5	450	100.0	540	83.3	150	100.0	180	100.0
		i = 10	225	100.0	270	100.0	75	100.0	90	100.0
	2.2	i = 3	750	85.7	900	71.4				
		i = 5	450	100.0	540	100.0				
		i = 10	225	100.0	270	100.0				
	3.7	i = 3	750	100.0	900	100.0				
		i = 5	450	100.0	540	100.0				
		i = 10	225	100.0	270	100.0				

Motor Specifications

The output between 0.75 and 3.7 kW falls under the category of Premium Efficiency IE3.

Item	Standard specification
Output	0.1~3.7kW
Number of poles	4P
Number of phases	Three-phase
Voltage	200/200/220V
Frequency	50/60/60Hz
Gear ratio	1/3, 1/5, 1/10
Rating	Continuous
Heat resistance class	E(0.1~0.4kW)、B(0.75~3.7kW)
Starting method	Direct start (full-voltage start)
Casing construction (cooling method)	Totally enclosed, fan-cooled (except three-phase 0.1 kW, which is totally enclosed, self-cooled model)
Protective construction	Indoor type (corresponding to IP44)
Mounting method	Flange mounting (concentric)
Mounting direction	Any direction
Installation site	Indoor (not exposed to corrosive gas, oil mist, flammable gas, and dust)
Ambient temperature	-15 ~ 40°C (no freezing)
Ambient humidity	No more than 90%
Altitude	No more than 1000 m above sea level
Vibration	Normally: no more than 4.9 m/s ² , Instantaneously: no more than 9.8 m/s ² (compliant with JIS C 0911)
Braking method	Direct current (DC) spring brake
Applicable standard	JEC, JEM
Lubrication method	Grease lubrication (filled with Pyronoc Universal No. 000)
Paint color	Silver (corresponding to Munsell N6.0)
Accessories	Shaft end key (JIS B 1301-1976)

Semi-standard specifications

1. Voltage

- 1) 400/400/440V 50/60/60Hz; 380V 50Hz; 415V 50Hz; 460V 60Hz (three-phase, three-phase with brake)
- 2) 200/200V 50/60Hz (single-phase, single-phase with brake)

2. Protective construction

- 1) Outdoor type (three-phase, three-phase with brake)

3. Other

- 1) Location of terminal box
- 2) With quick manual release brake
- 3) Inverter drive constant torque (V/F control) series (0.1~0.4 kW)

Table of
Motor feature

Motor Characteristics Table

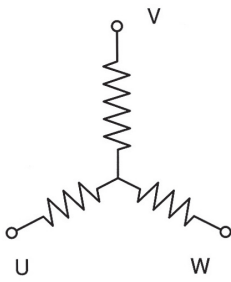
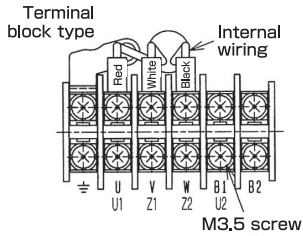
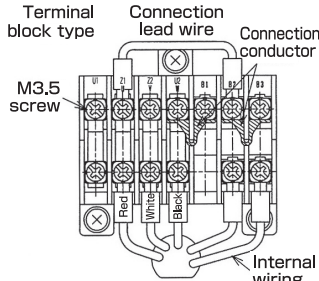
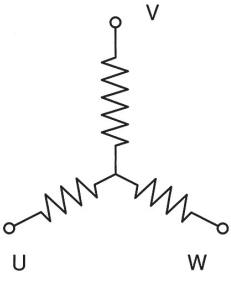
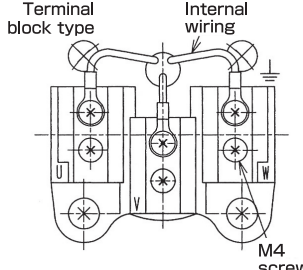
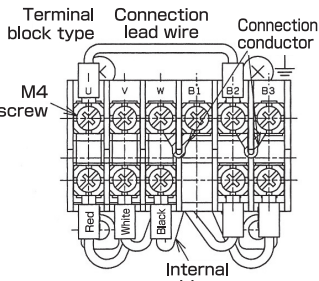
# of poles	Output (kW)	Voltage (V)	Frequency (Hz)	Load characteristics										Torque characteristics		Starting current(A)	Rated current(A)
				50% load			75% load			100% load			Rotation speed (r/min)	Maximum torque (%)	Starting torque (%)		
				Current (A)	Efficiency (%)	Power factor (%)	Current (A)	Efficiency (%)	Power factor (%)	Current (A)	Efficiency (%)	Power factor (%)					
4	0.1	200	50	0.56	52.8	48.8	0.60	60.1	59.8	0.66	63.2	68.8	1415	232.6	237.6	2.3	0.7
		200	60	0.46	57.8	53.8	0.52	63.8	65.5	0.59	65.5	74.1	1664	212.6	222.2	2.0	0.7
		220	60	0.49	54.0	49.2	0.53	61.4	60.0	0.59	64.7	68.6	1695	259.7	273.8	2.2	0.7
		400	50	0.32	46.7	47.7	0.34	55.1	57.4	0.37	59.6	65.5	1430	277.8	283.2	1.4	0.4
		400	60	0.27	52.9	50.7	0.29	60.4	61.2	0.32	63.9	69.5	1704	252.4	243.2	1.2	0.3
		440	60	0.29	48.6	47.3	0.30	57.1	56.8	0.33	61.8	64.7	1725	306.9	297.9	1.4	0.3
	0.2	200	50	0.92	60.3	52.1	1.02	65.6	64.5	1.18	66.6	73.7	1372	214.4	225.7	4.1	1.3
		200	60	0.75	64.6	59.3	0.88	68.6	71.3	1.07	68.4	78.8	1635	190.5	180.7	3.6	1.2
		220	60	0.81	61.4	52.6	0.91	67.2	64.4	1.05	68.8	72.9	1672	233.3	223.6	3.9	1.2
		400	50	0.46	58.0	53.9	0.51	63.9	65.8	0.59	65.5	74.5	1383	217.2	223.3	2.1	0.7
		400	60	0.39	62.5	58.5	0.46	67.1	70.3	0.55	67.3	78.1	1639	193.2	184.9	1.9	0.6
		440	60	0.42	59.3	52.6	0.47	65.5	64.1	0.54	67.6	72.6	1676	237.0	228.7	2.0	0.6
	0.4	200	50	1.60	67.3	53.6	1.80	72.0	66.7	2.08	72.9	75.9	1415	251.9	255.8	9.4	2.2
		200	60	1.34	71.4	60.5	1.58	74.9	73.1	1.91	74.9	80.8	1693	231.0	210.4	8.5	2.0
		220	60	1.42	68.5	53.8	1.61	73.5	66.5	1.86	75.0	75.3	1716	279.9	257.9	9.3	2.0
		400	50	0.83	65.1	53.1	0.93	70.2	66.1	1.07	71.4	75.4	1416	243.5	242.7	4.8	1.1
		400	60	0.68	69.7	61.0	0.8	73.4	73.6	0.97	73.5	81.3	1688	225.8	211.8	4.3	1.0
		440	60	0.72	66.9	54.4	0.81	72.1	67.0	0.94	73.7	75.8	1712	274.1	260.0	4.7	0.9
	0.75	200	50	3.57	79.9	37.8	3.89	83.1	50.2	4.28	83.9	60.2	1440	450	431	26.2	4.3
		200	60	2.61	84.1	49.2	3.05	85.8	62.0	3.57	86.0	70.5	1730	396	361	24.0	3.6
		220	60	2.93	82.9	40.5	3.25	85.6	52.9	3.65	86.3	62.4	1750	494	466	26.8	3.7
		400	50	1.80	78.4	38.4	1.96	81.9	50.7	2.16	82.7	60.6	1440	446	444	12.9	2.20
		400	60	1.30	84.3	49.3	1.52	86.0	62.2	1.78	85.8	70.8	1730	394	357	11.9	1.80
		440	60	1.47	82.0	40.7	1.63	84.9	53.3	1.83	85.6	62.7	1740	494	458	13.4	1.85
	1.5	200	50	5.01	85.3	50.6	5.83	86.4	64.4	6.88	85.9	73.2	1430	344	322	42.3	7.0
		200	60	3.76	88.9	64.8	4.83	88.7	75.7	6.11	87.2	81.3	1720	294	244	37.1	6.2
		220	60	4.07	87.9	54.9	4.90	88.8	67.8	5.90	88.3	75.4	1740	375	315	42.7	6.0
		400	50	2.33	85.8	54.1	2.78	86.4	67.5	3.35	85.3	75.7	1430	332	317	21.1	3.4
		400	60	1.81	88.6	67.4	2.37	88.2	77.5	3.04	86.5	82.4	1720	285	252	19.1	3.1
		440	60	1.92	87.9	58.2	2.36	88.6	70.5	2.89	87.8	77.5	1730	363	314	20.8	2.9
	2.2	200	50	7.93	87.0	46.0	9.04	88.3	59.6	10.4	88.2	69.0	1450	376	343	69.4	10.5
		200	60	6.02	90.1	58.5	7.48	90.4	70.4	9.16	89.6	77.4	1740	326	251	60.4	9.2
		220	60	6.60	88.9	49.1	7.70	90.1	62.4	9.03	90.0	70.9	1750	408	343	68.4	9.1
		400	50	3.97	87.0	46.0	4.52	88.3	59.6	5.22	88.2	69.0	1450	376	343	34.7	5.3
		400	60	3.01	90.1	58.5	3.74	90.4	70.4	4.58	89.6	77.4	1740	326	251	30.2	4.6
		440	60	3.30	88.9	49.1	3.85	90.1	62.4	4.52	90.0	70.9	1750	408	343	34.2	4.6
	3.7	200	50	9.91	89.6	60.1	12.2	90.3	72.7	15.0	89.6	79.4	1460	355	334	119	15.5
		200	60	8.48	90.7	69.4	11.1	90.8	79.4	14.1	89.8	84.1	1750	300	268	107	14.5
		220	60	8.68	90.3	61.9	10.8	91.1	73.9	13.3	90.8	80.2	1760	380	346	121	13.5
		400	50	4.96	89.6	60.1	6.10	90.3	72.7	7.50	89.6	79.4	1460	355	334	59.4	7.8
		400	60	4.24	90.7	69.4	5.55	90.8	79.4	7.07	89.8	84.1	1750	300	268	53.6	7.3
		440	60	4.34	90.3	61.9	5.41	91.1	73.9	6.66	90.8	80.2	1760	380	346	60.5	6.8

Note: The above values are representative values calculated for the motor alone according to the following methods:

- In case the output is between 0.1 and 0.4 kW – the equivalent circuit method
- In case the output is between 0.75 and 3.7 kW – the loss separation method

Please note that the values are subject to change without prior notice, due to the improvement, etc.

Wiring

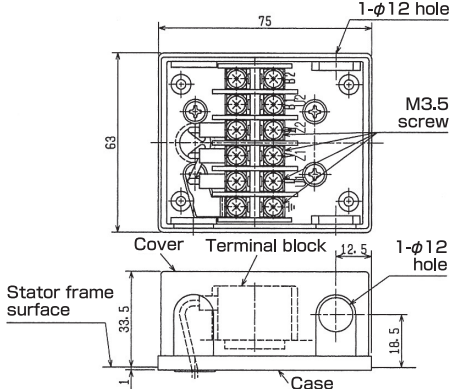
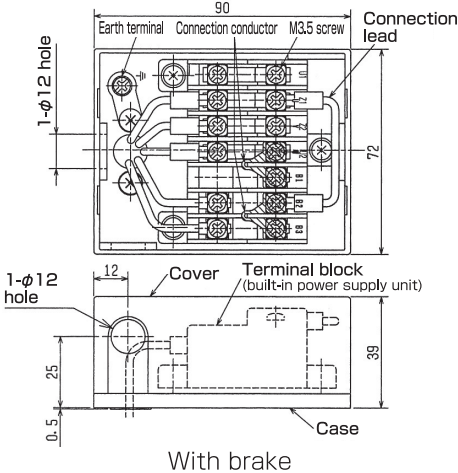
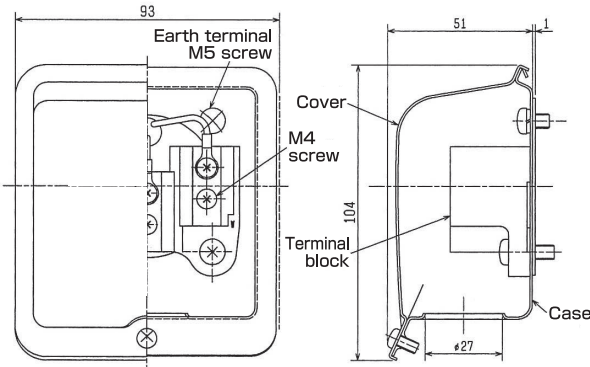
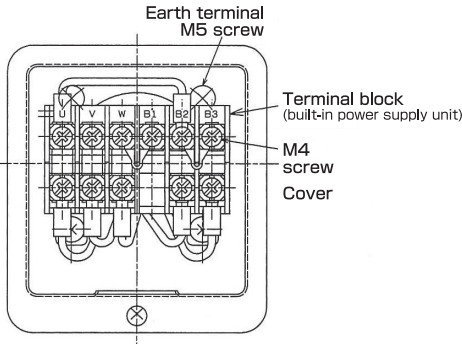
	Output (kW)	# of lead wires	Winding	Structure of terminal outlet	Connecting method	Rotation direction
Three-phase	0.1 } 0.4	3		Terminal block type  Without brake Terminal block type  With Brake (Connection for simultaneous turn-off)	U V W R S T The rotation direction can be changed to clockwise (CW) by interchanging two out of three lead wires.	Counter-clockwise (CCW)
	0.75 } 3.7	3		Terminal block type  Without brake Terminal block type  With Brake (Connection for simultaneous turn-off)	U V W R S T The rotation direction can be changed to clockwise (CW) by interchanging two out of three lead wires.	Counter-clockwise (CCW)

Note: The rotation direction (viewed from the output shaft) shown in the above table is for double and quadruple reduction models. The rotation direction for a triple reduction model is the opposite to the direction shown in the above table

- Notes of Caution:**
1. Do not fail to ground the motors. Install a specified earth leakage circuit breaker for each motor. Failure to do so may result in electric shock.
 2. Wire the motors using quality wiring devices and equipment in accordance with the electrical equipment technical standards and the regulations of the relevant electric power company.
 3. Install an appropriate motor protective device for each motor. Failure to do so may result in a fire in case of trouble.
 4. Use a power supply of the specified voltage. Failure to do so may result in a fire.

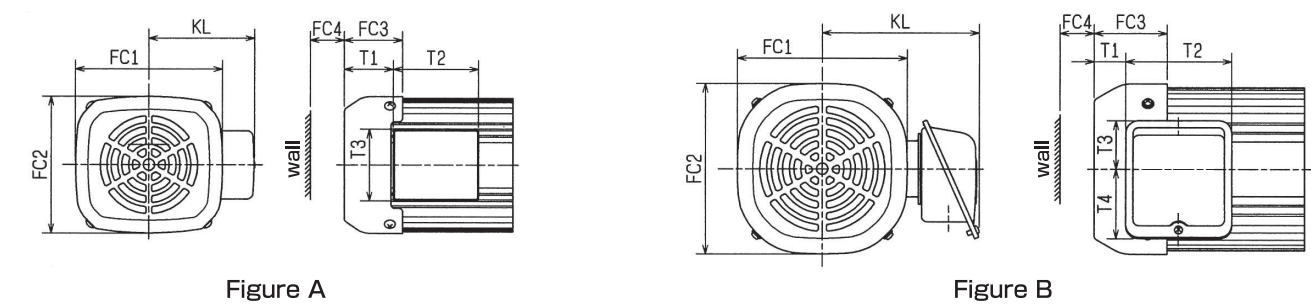
Dimensional
Terminal box

Dimensions: Terminal Box

	Output (kW)	Dimensions of terminal box	
Indoor type	0.1 ~ 0.4	 Without brake	 With brake
	0.75 ~ 3.7	 Without brake	 With brake

Part of Motor
Dimensional
details

Dimensional Details: Parts of Motor



Output (kW)	Figure	Indoor type								
		Dimensions of terminal box (mm)					Dimensions of fan cover (mm)			
		T1	T2	T3	T4	KL	FC1	FC2	FC3	FC4
0.1	A	(68)	75 (90)	63 (72)	—	87 (92)	— (118)	— (108)	— (76)	20
0.2		42 (90)					118	108	50 (98)	
0.4		43 (95)					130	120	51 (103)	
0.75	B	28 (91)	93	44	60	138	150	150	64 (127)	40
1.5		37 (109)				148	175	175	73 (145)	
2.2		52 (119)				160	204	204	83 (150)	
3.7		64 (139)				174	235	235	95 (170)	

Notes: 1. FC4 is the minimum distance from the wall in consideration of ventilation to cool the motor.
It is recommended to install the motor at such a distance (FC3 + 5 mm) from the wall that the fan cover can be removed for the maintenance of the brake, etc.
2. The values in parentheses are for the models with brakes.

Direction of
rotation

Rotation Direction

The following table shows rotation directions when R-U, S-V, and T-W are wire-connected.
To change the rotation direction, please interchange two wires.

Output (kW)	Gear ratio	# of speed reduction stages	Rotation direction (viewed from the output shaft)
0.1	1/3~1/10	Double	Counter-clockwise
0.2	1/3~1/10	Double	Counter-clockwise
0.4	1/3	Triple	Clockwise
	1/5~1/10	Double	Counter-clockwise
0.75~2.2	1/3~1/10	Double	Counter-clockwise
3.7	1/3	Triple	Clockwise
	1/5~1/10	Double	Counter-clockwise

Brake

Features and Structure

1. Low noise

The impact noise caused by brake operation (releasing and braking) has been significantly reduced by the use of brake cover, O-ring, etc.

2. Built-in device in power supply unit

The power supply unit has a built-in surge absorber. The surge caused by quick turn-off is reduced, and the brake can be used with the auxiliary contact.

3. Easy to wire

The adoption of a 6- or 7-point terminal block makes the wiring easy. The point-to-point construction is not necessary for quickly turning off the inverter. (0.1~3.7 kW)

4. Long life

The double-face brake system ensures stable and strong brake performance for a long time.

5. Safety brake

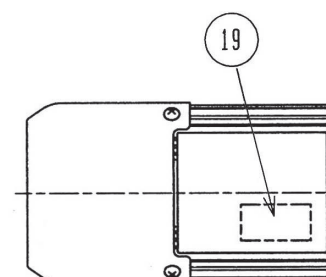
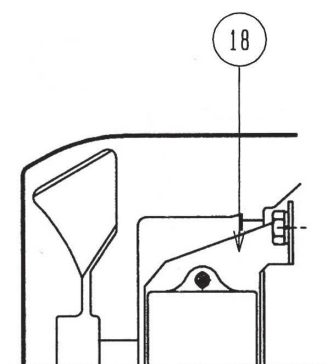
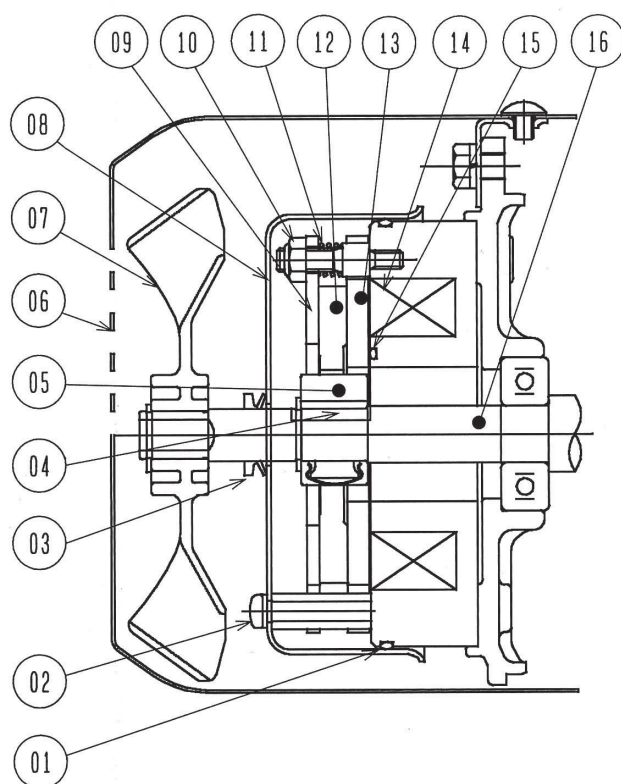
The negative actuated type brake system (spring actuated type brake system) can serve as a safety brake system.

6. Use of non-asbestos material

A non-asbestos material is used for the brake lining.

7. Cleanliness

The totally enclosed structure can prevent scattering of abrasion powder of brake lining to the outside and maintain clean environment.

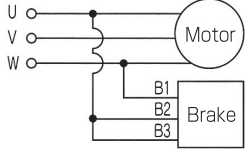
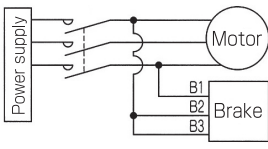
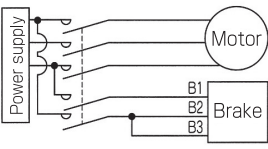
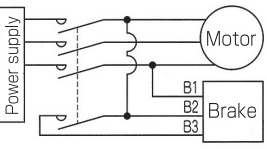
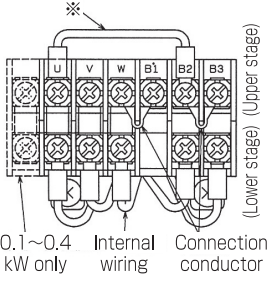
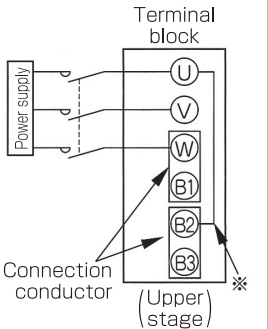
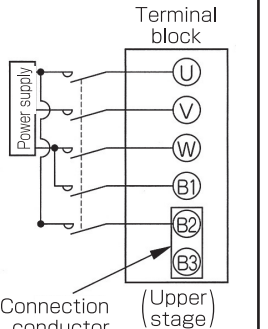
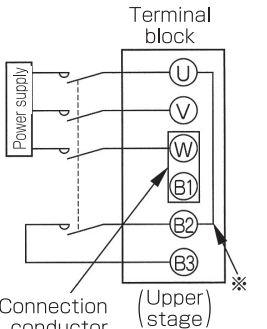


#	Part name	#	Part name	#	Part name
1	O-ring	8	Brake cover	15	O-ring
2	Cross-recessed pan head screw	9	Supporting plate	16	Motor shaft
3	V-ring	10	Hexagonal nut	17	
4	Key	11	Locking nut	18	Fitting
5	Brake hub	12	Brake lining	19	Power supply unit (0.1 to 3.7 kW)
6	Fan cover	13	Moving core		
7	Fan	14	Stationary core		

Motor connection diagrams and reaction time

Connection Procedure and Coasting Time

The coasting time (time from turning off the power until the brake starts working) of brakes varies depending on brake connecting methods and load specifications. Connect the brake in a way best suited for your purpose of use.

Motor		At the time of shipment		Simultaneous turn-off	Separate turn-off	DC turn-off (quick turn-off)
Input	Output					
Three-phase	0.1 ~ 3.7 kW					
						
		Coasting time		0.2~0.55 sec.	01.~0.3 sec.	0.01~0.04 sec.

Notes:

- The parts marked with * in the above figures are connection lead wires. Ensure to connect them to U-B2 (on the upper stage). In case of separate turn-off, ensure to remove them.
- In case of separate or DC turn-off, remove the connection conductor from the terminal block as shown in the above figure, according to the connecting method.
- The terminal blocks have two stages, upper and lower stages. When wiring the motor and brake power supplies, connect wires to the terminal screws on the upper stage indicated above. Please note that, if they are connected to the lower stage, the brake will not be released.

Caution for Use

- In case of using the brake for lifting a load or improving the precision of stop positioning, adopt DC turn-off (quick turn-off).
- The coasting time changes to a certain degree, depending on load specifications and brake torque.
- Due to the structure of the brake, rubbing sound may be created, but it does not affect the brake performance at all.
- In case a condenser (capacitor) for improving the power factor is added to the motor circuit, you must adopt separate turn-off. Please note that, in case of the inverter drive, you cannot add a condenser for improving the power factor to the motor circuit.
- In case of the inverter drive or controlling input power source, connect the brake to the side of the power source, including the inverter.
- In case of the inverter drive, it may produce more noise in the low-frequency range, but it does not affect the functions at all.
- In case of operating it in low-frequency range, specifically 25Hz or less, the use should be either the one-hour rating or 25%ED.
- In case a 400V-class motor is driven by an inverter, surge voltage attributable to the wiring constant will be generated between the motor terminals, and the voltage may impair the insulation of the motor. In such a case, please consider taking the following measures:
 - Method to strengthen the insulation of the motor
Use the geared motor with reinforced insulation for a 400V-class inverter drive.
 - Standard geared motor: 0.1~2.2 kW
 - Inverter-driven constant torque (V/F constant torque) motor: 0.4~3.7 kW
 - Method to control the surge voltage at the inverter
Connect a filter to control the surge voltage to ensure the motor terminal voltage will be no more than 850V, at the secondary circuit of the inverter.

Inverter Characteristics

Excellent Characteristics of the Inverter Drive

Standard models realized a wide constant torque range

- The constant torque range can be expanded by the combined use with the dedicated inverter

Output (kW)	Constant torque range (Hz)	
	Magnetic flux vector control	V/F control
0.1~0.75	3~60	40~60
1.5~3.7	6~60	40~60

- PLG feedback control models

The development of a dedicated PLG enabled the feedback control.

- Strengthened product series that fit pressure-resistant, explosion-proof inverters

Combinations that have magnetic flux control have been newly included in the menu.

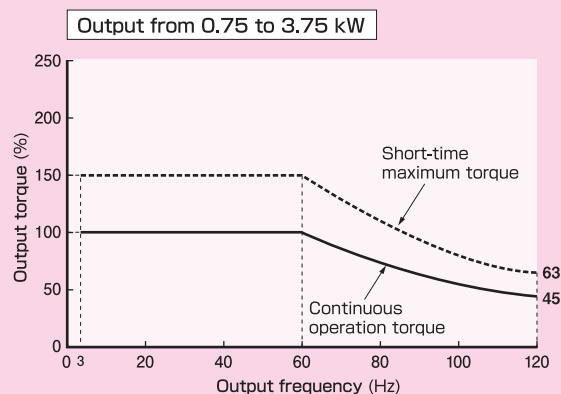
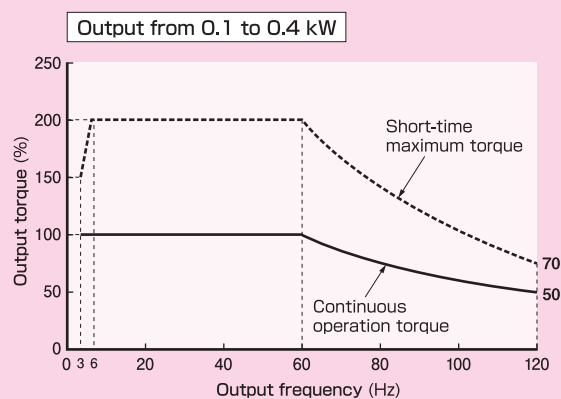
Expanded frequency range of motors dedicated to inverters

- The frequency range of V/G constant torque motors has been expanded.

Output (kW)	Constant torque range (Hz)
0.4~3.7	6~60

Output Torque Range

● Magnetic flux vector control system



● V/F control system

