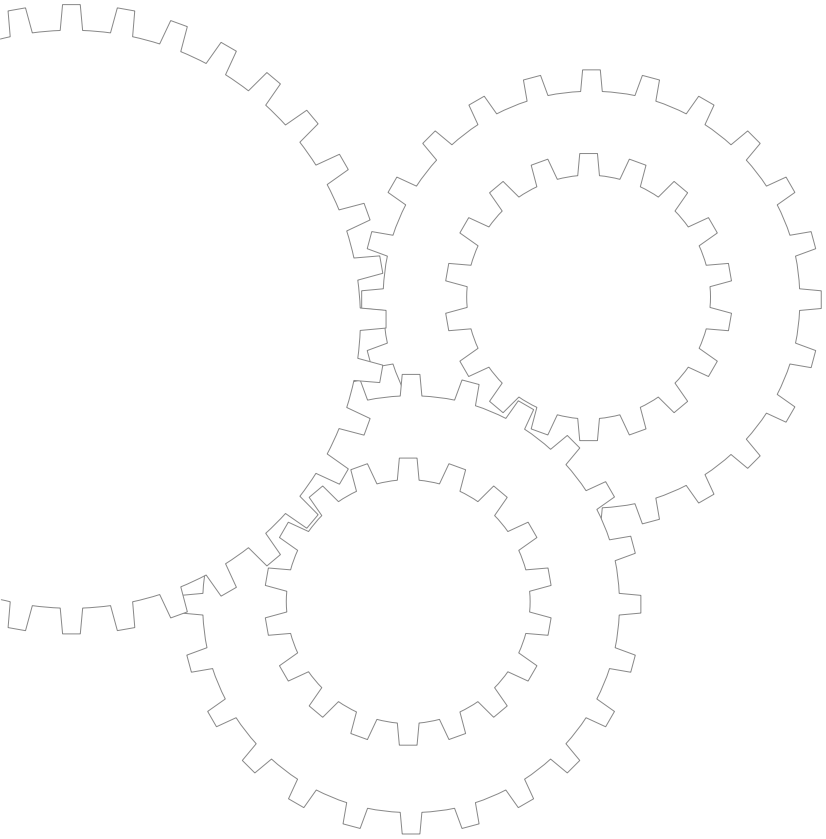
Options



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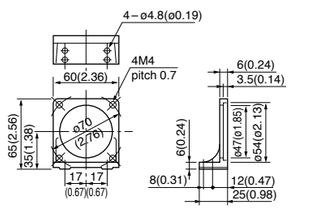
Options

• Mounting frame and dimensions

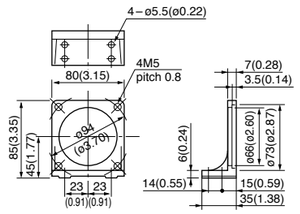
<Outer-base type*>

60 mm (2.36 inch) sq. M6B2



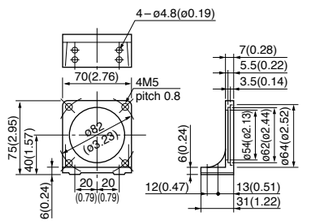
Unit : mm (inch)

80 mm (3.15 inch) sq. M8B2



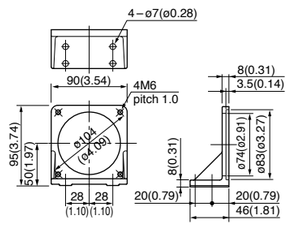
Unit : mm (inch)

70 mm (2.76 inch) sq. M7B2



Unit : mm (inch)

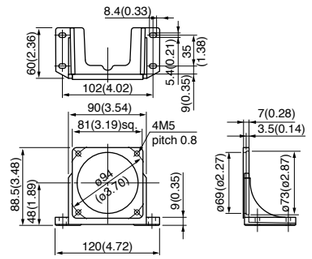
90 mm (3.54 inch) sq. M9B2



Unit : mm (inch)

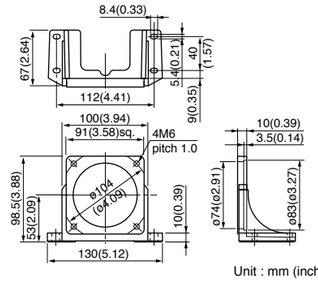
<Inner-base type*>

80 mm (3.15 inch) sq. M8B3



Unit : mm (inch)

90 mm (3.54 inch) sq. M9B3



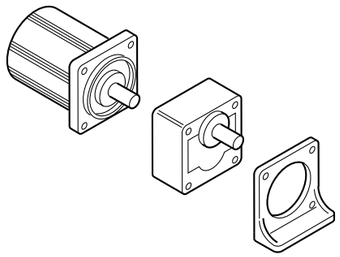
Unit : mm (inch)

* Not attachable to a hinged gear head or C&B motor.

* Outer-base type: A motor is attached outside the base mounting position.
* Inner-base type: A motor is attached inside the base mounting position.

• Mounting arrangement

Motor + Gear head + Mounting frame



• Mounting frame

Size (mm)	Part number
60 mm (2.36 inch) sq.	M6B2
70 mm (2.76 inch) sq.	M7B2
80 mm (3.15 inch) sq.	M8B2
	M8B3
90 mm (3.54 inch) sq.	M9B2
	M9B3

• O-ring

Repair parts
10 pcs packed in one bag.

Size (mm)	Part number
60 mm (2.36 inch) sq.	DV0PN10006
70 mm (2.76 inch) sq.	DV0PN10007
80 mm (3.15 inch) sq.	DV0PN10008
90 mm (3.54 inch) sq.	DV0PN10009

* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

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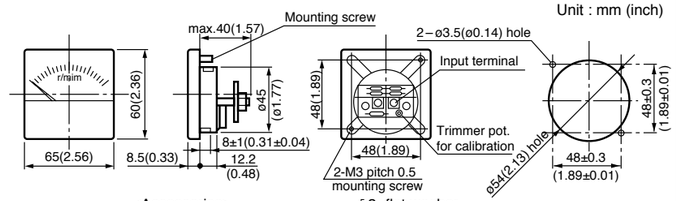
• Tachometer (DV0P001)

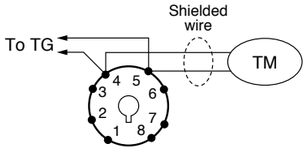
The motor speed can be easily indicated.
This meter is especially designed for Panasonic controllers only.

Unit : mm (inch)



<Accessories>
Mounting hardware M3 pitch 0.5 { 2- flat washer, 2- spring washer, 2- hexagon nut }

Panel cutout details
TOP VIEW



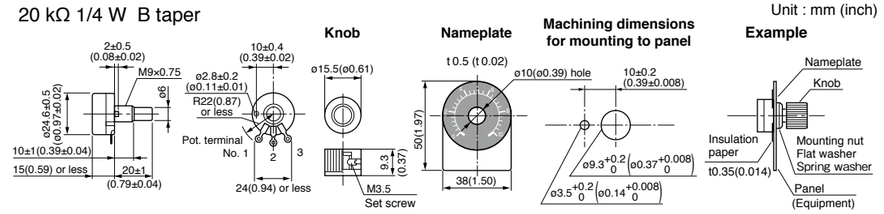
TM: Tachometer
TG: Tachometer generator

<Precautions>
1. Tachometer should be wired in parallel with TG.
2. When the wires for the tachometer (TM) becomes too long, use a twisted shielded wire in place. Please do not ground the shield portion.
3. Calibrate the readings with the trimmer potentiometer on the back of TM.
   Calibration : 1. Measure the motor speed with a revolution counter.
   2. Measure the frequency f of the voltage from TG by the oscilloscope.
   Rotation speed N (r/min) = 5f (Hz)

• External speed setter (DV0P002)

20 kΩ 1/4 W B taper

Unit : mm (inch)

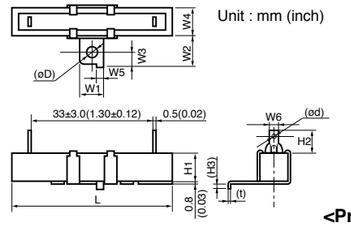


<Precautions>
1. Insert the insulation paper to positively isolate the terminals and chassis.
2. Prepare the panel by customer.
   When using the accessory nameplate, the recommended thickness of the panel is 2.5 mm to 4 mm.
   When not using the accessory nameplate, the recommended thickness of the panel is 4 mm or less.

• External braking resistor (DV0P003)

5.6 Ω 10 W

Unit : mm (inch)



<Size>

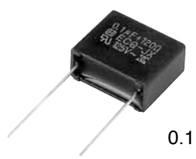
	(mm)	(inch)
L	48±2	1.89±0.08
W1	12±0.5	0.47±0.02
W2	14±1	0.55±0.04
W3	6±0.5	0.24±0.02
W4	10.5±1.5	0.41±0.06
W5	3±0.3	0.12±0.01
W6	5.2±0.5	0.20±0.5

	(mm)	(inch)
H1	10.5±1.5	0.41±0.06
H2	9^{+3}_{-1}	$0.35^{+0.12}_{-0.04}$
H3	(2.2)	(0.09)
D	(3.8)	(0.15)
d	(2.5)	(0.10)
t	(0.6)	(0.02)

<Notice>
DV0P003 has 5.6 Ω resistance.
When using commercial resistor, select 4.7 Ω to 6.8 Ω and power rating 10 W or more.

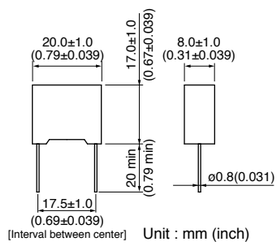
<Precautions>
• The resistor dissipates heat: do not touch.
• Mount the resistor to nonflammable material.

• Spark killer (DV0P008A)



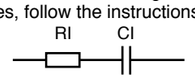
0.1 μF 120 Ω

Use a spark killer to protect the main speed control circuit and switches.



Unit : mm (inch)

<Notice>
1. DV0P008A internal capacitor is 0.1 μF and internal resistance is 120 Ω. When using commercially available ones, follow the instructions shown below.



R1 = 10 Ω to 200 Ω (1/4 W or larger)
C1 = 0.1 μF to 0.33 μF (125 VAC or 250 VAC)

2. This spark killer cannot be used for 400 V model.
   Use a spark killer rated at 400 V or higher.

* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

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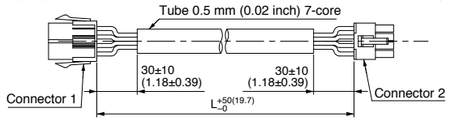
Options

• Unit type motor extension cord

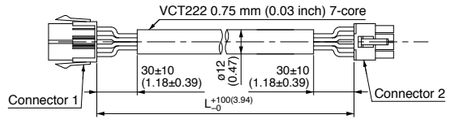
When the distance between the controller and the motor is longer than 1 m (39.37 inch), use a suitable extension cord shown right.

DV0P0321

Unit : mm (inch)



DV0P0322 to DV0P0325



Unit : m (inch)

Part No.	Length
DV0P0321	1 (39.37)
DV0P0322	2 (78.74)
DV0P0323	3 (118.11)
DV0P0324	4 (157.48)
DV0P0325	5 (196.85)

The 1 m (39.37 inch) cord is supplied with the motor.

• Capacitor

• The capacitor delivered together with the motor can be separately available as an option.

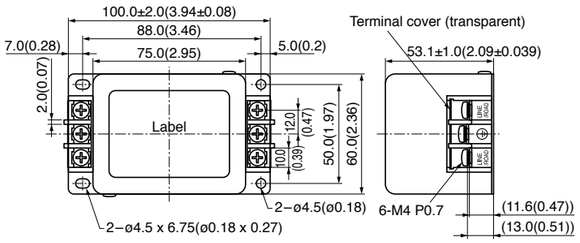
• Capacitor cap

• The capacitor cap delivered together with the motor can be separately available.

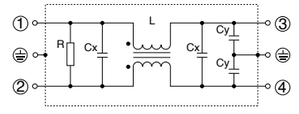
[Notes]
1. 10 caps are packed in one bag.
2. We accept the order for caps in unit of bag.
3. Please refer to the motor specification page for each dimensions of the capacitor.

• Noise filter

DV0P3611-5 : for Speed controller (excluding unit type)
DV0P4170 : for Brake unit



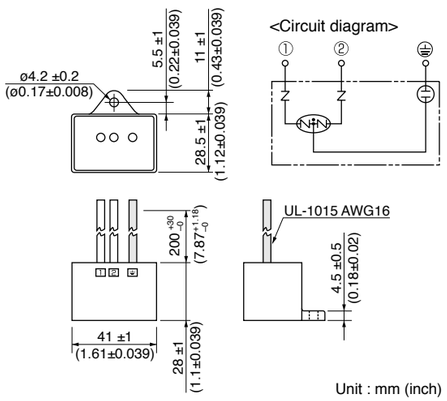
<Circuit diagram> **DV0P3611-5**



Unit : mm (inch)

• Surge absorber

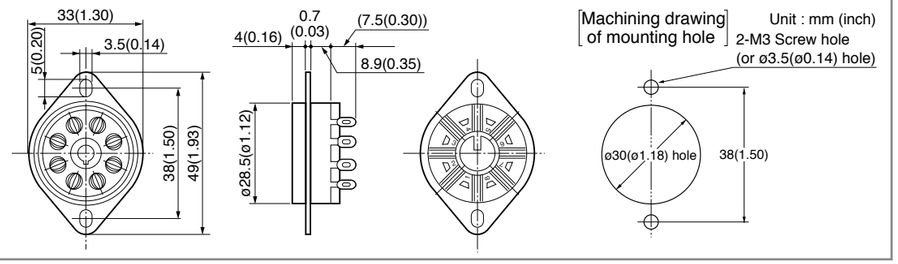
DV0P4190



Unit : mm (inch)

• 8-pin socket

DV0P4560



Unit : mm (inch)

* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

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Recommended components Panasonic Industrial Devices SUNX Co.,Ltd.

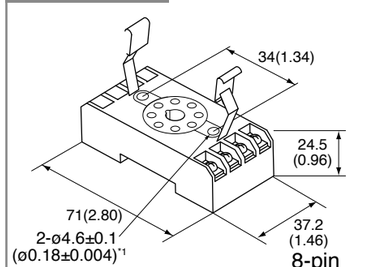
• Combination of the set and recommended components
(The customer should arrange the recommended components.)
These are products of Panasonic Industrial Devices SUNX Co.,Ltd.

		DIN terminal block	Socket	Cap	Rear panel terminal block	Flush*1 mounting frame	Protective cover	DIN rail Fastening plate
Speed controller	MGSD	AT7803 ATC180031	AW68102	AD8013	AT78041	—	—	ATA48011 ATA4806
	EX	AT7803	AW68102 (accessory)		—	—	—	
Brake unit	SD	AT7803	AW68102 (accessory)	AD8013	AT78041	—	—	
	EX				—	—	—	
	MB48X	ATC180041	—	ATA4861	—	ATA4811	AQM4801	

*1 If you use embedded mounting frame for MB48X type, please use the cap (ATA4861) for connection wiring.
The DIN terminal block or socket cannot be used in case of embedded mounting frame.

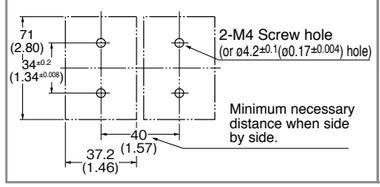
• DIN terminal block

AT7803 Unit : mm (inch)

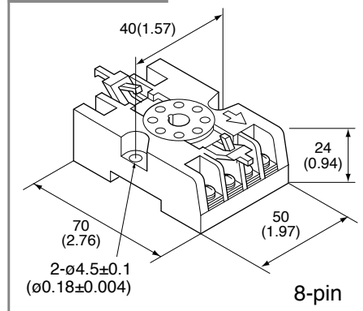


*1 There are mounting hole ø4.6(ø0.18) in the long hole part, when the DIN rail is not used.

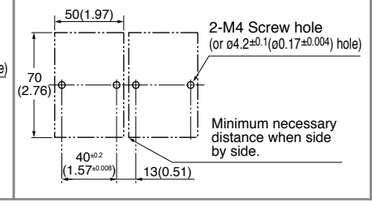
<Machining drawing of mounting hole>
When the DIN rail is not used.



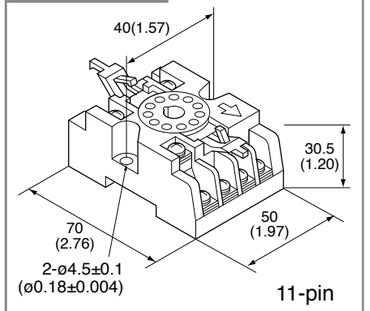
ATC180031 Unit : mm (inch)



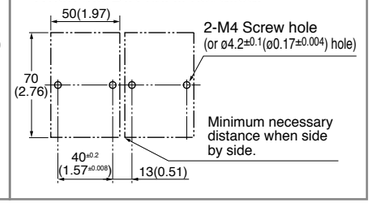
<Machining drawing of mounting hole>
When the DIN rail is not used.



ATC180041 Unit : mm (inch)

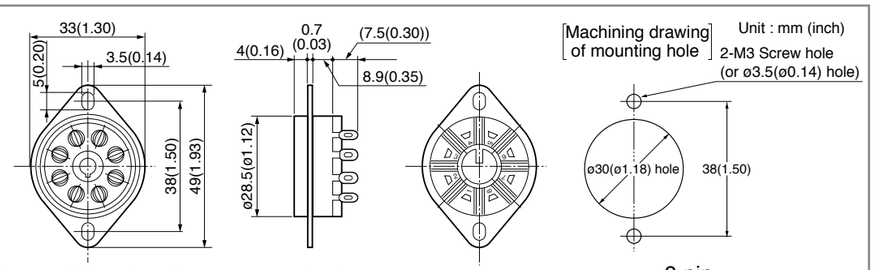


<Machining drawing of mounting hole>
When the DIN rail is not used.



• Socket

AW68102



Unit : mm (inch)

8-pin

* Do not use this socket in condition where it receive any vibration.
To securely fix such product,use the DIN terminal block or flush type mounting frame.

* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

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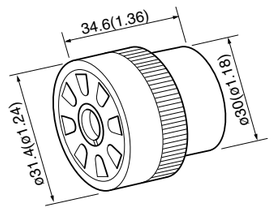
Recommended components

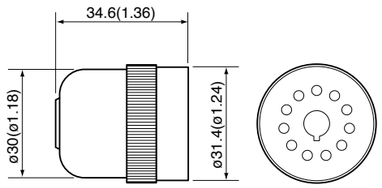
• Cap

AD8013 Unit : mm (inch)



8-pin

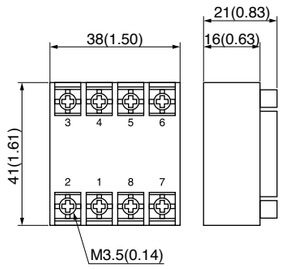
ATA4861 Unit : mm (inch)



11-pin

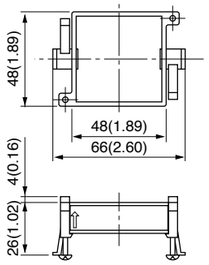
• Rear panel terminal block

AT78041 Unit : mm (inch)



• Flush mounting frame

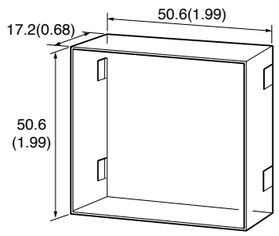
ATA4811 Unit : mm (inch)



Note 1: Compatible panel thickness is between 1.0 mm and 3.5 mm (0.039 inch and 0.14 inch).
Note 2: If you use embedded mounting frame for MB48X type, please use the cap (ATA4861) for connection wiring.
Note 3: The DIN terminal block or socket cannot be used in case of embedded mounting frame.

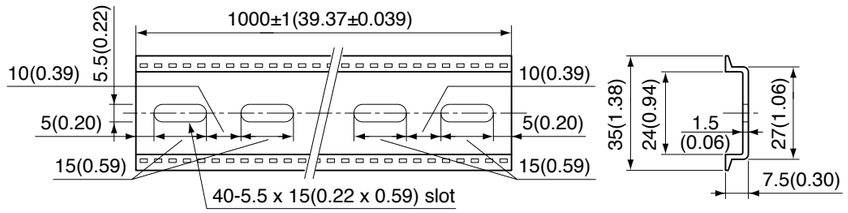
• Protective cover

AQM4801 Unit : mm (inch)



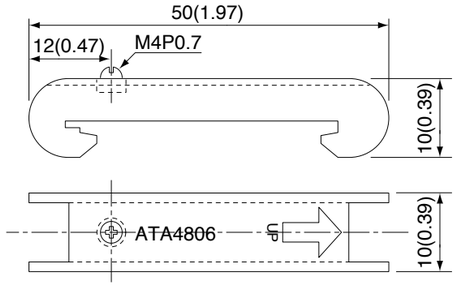
• DIN rail

ATA48011 Unit : mm (inch)



• Fastening plate

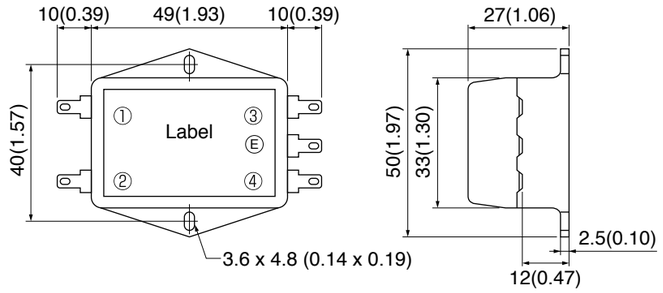
ATA4806 Unit : mm (inch)



• Noise filter

MR-2043 Unit : mm (inch)

Manufacturer:
NEC Tokin Corporation



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* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

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* Spare parts: Extension cable (1 m) and instruction manual are not included.

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M0PC14M25G	Capacitor	
M0PC15M20	Capacitor	
M0PC16M25G	Capacitor	
M0PC18M25G	Capacitor	
M0PC1M40	Capacitor	
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M0PC5M40	Capacitor	
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10 pieces in one bag. Please order by bags unit.		
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M0PC3926	Capacitor cap	
M0PC5026	Capacitor cap	
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M0PC3114G	Capacitor Cap	
M0PC3117G	Capacitor Cap	
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Part No.	Specifications	Carrying page
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10 pieces in one bag. Please order by bags unit.		
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* Spare parts: Extension cable (1 m) and instruction manual are not included.
* The models with a model number to which "A" is suffixed (not equipped with a capacitor cap) are not listed in this index.

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80 mm sq. motor

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* The models with a model number to which "A" is suffixed (not equipped with a capacitor cap) are not listed in this index.

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M9RZ90GV4L	Variable speed reversible	B-300
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M9RZ90GV4Y	Variable speed reversible	B-300
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MP9G180B	90 mm sq. High torque type Hinge attached	B-444
MP9G200B	90 mm sq. High torque type Hinge attached	B-444
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* The models with a model number to which "A" is suffixed (not equipped with a capacitor cap) are not listed in this index.

* The models with a model number to which "A" is suffixed (not equipped with a capacitor cap) are not listed in this index.

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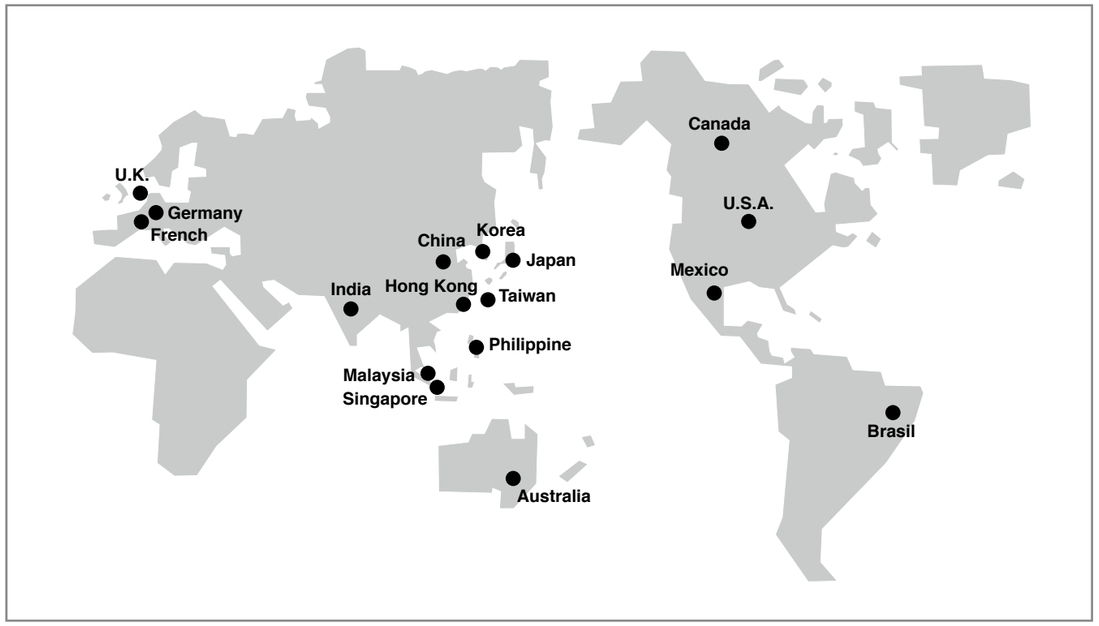
World power supply system

■ World voltage

Major countries



• Major power system standards

Country	Phase	Voltage	Frequency
Japan	Single-phase	100 V, 200 V	50 Hz/60 Hz
	3-phase	200 V	
U.S.A.	Single-phase	115 V	60 Hz
	3-phase	230 V	
Canada	Single-phase	120 V	60 Hz
	3-phase	208 V, 240 V	
Taiwan	Single-phase	110 V, 220 V	60 Hz
	3-phase	220 V, 380 V	
Hong Kong	Single-phase	200 V	50 Hz
	3-phase	346 V	
China	Single-phase	220 V	50 Hz
	3-phase	380 V	
Korea	Single-phase	110 V, 220 V	60 Hz
	3-phase	200 V, 380 V	
Malaysia	Single-phase	240 V	50 Hz
	3-phase	415 V	

Country	Phase	Voltage	Frequency
Philippine	Single-phase	115 V, 220 V	60 Hz
	3-phase	230 V	
Singapore	Single-phase	230 V	50 Hz
	3-phase	400 V	
French	Single-phase	230 V	50 Hz
	3-phase	400 V	
Germany	Single-phase	230 V	50 Hz
	3-phase	400 V	
U.K.	Single-phase	230 V	50 Hz
	3-phase	400 V	
Mexico	Single-phase	127 V	60 Hz
	3-phase	220 V	
India	Single-phase	230 V, 240 V	50 Hz
	3-phase	400 V, 415 V	
Australia	Single-phase	240 V	50 Hz
	3-phase	415 V	
Brasil	Single-phase	110 V, 127 V	60 Hz
	3-phase	220 V	

<Caution> Connecting the power source to a motor having rating (voltage, phase, frequency) different from the system specification causes the hazardous operating conditions. For availability of compatible motors, consult us.

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Sales Office

[Panasonic Sales Office of Motors]

(March.01.2018)

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Germany	Panasonic Industry Europe GmbH [Sales office] [European Headquarter]	Munich	Robert-Koch-Strasse 100, 85521 Ottobrunn, Germany	TEL: +49 89-45354-0 FAX: +49-89-4535-41-550
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			Web site: https://eu.industrial.panasonic.com/products/motors-compressors-pumps	
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				Web site: http://www.lubielectronics.com	
		Vashi Electricals [Distributors]	Mumbai	A-6, Shree Ganesh Complex, Behind Gupta Compound, Dapode Road, Mankoli Naka, Bhiwandi, Mumbai, Maharashtra 421305	TEL: +91-25-2266-1600 FAX: +91-25-2266-1620
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