



• Features

- Extremely compact and low noise (compared with preceding models).
- Can control 3-phase 200 V motor by using single-phase 100 V power (use of voltage doubler). Single-phase 200 V version is available.
- Easy to operate control knob.
- External normal/reverse switches.
- Applicable to only 3-phase motors.

• Standard specification

Part number		M1G4A1V1X	M1G9A1V1X	M1G4A2V1X	M1G9A2V1X
Output rating	Applicable motor (W) *1	25/40	60/90	25/40	60/90
	Output volt-ampere (kVA) *2	0.11/0.16	0.19/0.27	0.11/0.16	0.20/0.28
	Rated output current (A)	0.28/0.4	0.49/0.7	0.28/0.4	0.49/0.7
	Rated output voltage	3-phase 200 VAC to 220 VAC		3-phase 200 VAC to 230 VAC	
	Voltage	Single-phase 100 VAC to 110 VAC		Single-phase 200 VAC to 230 VAC	
Power source	Permissible voltage variation	±10 %			
	Frequency	50 Hz/60 Hz ±5 %			
	Controlling system	Low noise sine-wave PWM			
Control method	Output frequency range *3	1.0 Hz to 120 Hz (factory setting: 60 Hz)			
	Acceleration/deceleration time setting *4	0 sec to 30 sec			
	Overload current rating	150 % 1 min.			
	Regenerative braking torque *5	Short time average deceleration torque 100 %			
	Frequency setting	Panel control			
	Operation switch, normal/reverse switch	Panel switch			
	External signal	(input): operation instruction, normal/reverse instruction, free-run stop; (output): abnormal signal			
Protective function		Undervoltage, overcurrent, overvoltage, instantaneous power interruption, stall, overload shutdown, self-diagnosis trip			
	Electronic-thermal	25 W/40 W	60 W/90 W	25 W/40 W	60 W/90 W
	Ambient temperature	−10 °C to +40 °C (no freezing)			
	Ambient humidity	90 % RH (no dewing)			
	Atmosphere	Indoor (free from foreign objects such as corrosive gas and dust)			
	Altitude	Up to 1000 m			
Protective construction		Closed type (IP20)			

*1. Panasonic 3-phase compact geared motors MoM series 4 models.

*2. Measured at rated output voltage at 220 V (M1GoA1V1X), 230 V (M1GoA2V1X).

*3. When using a gear head, keep the output frequency 60 Hz, or below.

*4. When set to "0", actual time is 0.05 sec.

*5. Regenerative braking torque refers to a short-time averaged deceleration and not a continuous torque.

Deceleration at a frequency higher than the fundamental frequency provides lower torque. No internal braking resistor is provided.

*6. Electromagnetic brake power supply voltage of the motor with an electromagnetic brake please use the AC230 V from AC200 V.

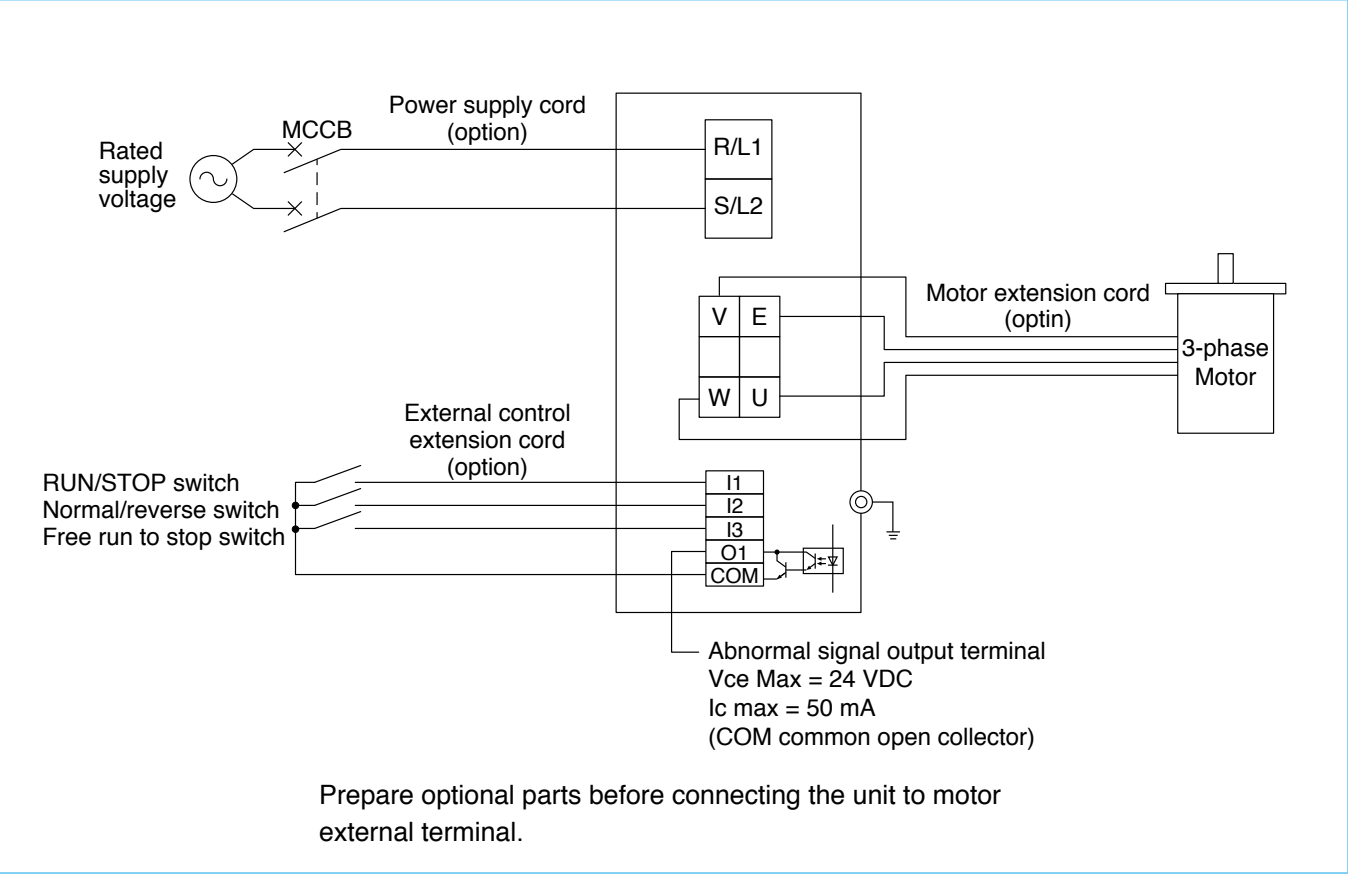
Please do not use the output of the inverter for the power supply of the electromagnetic brake.

There is when the brake can not be released.

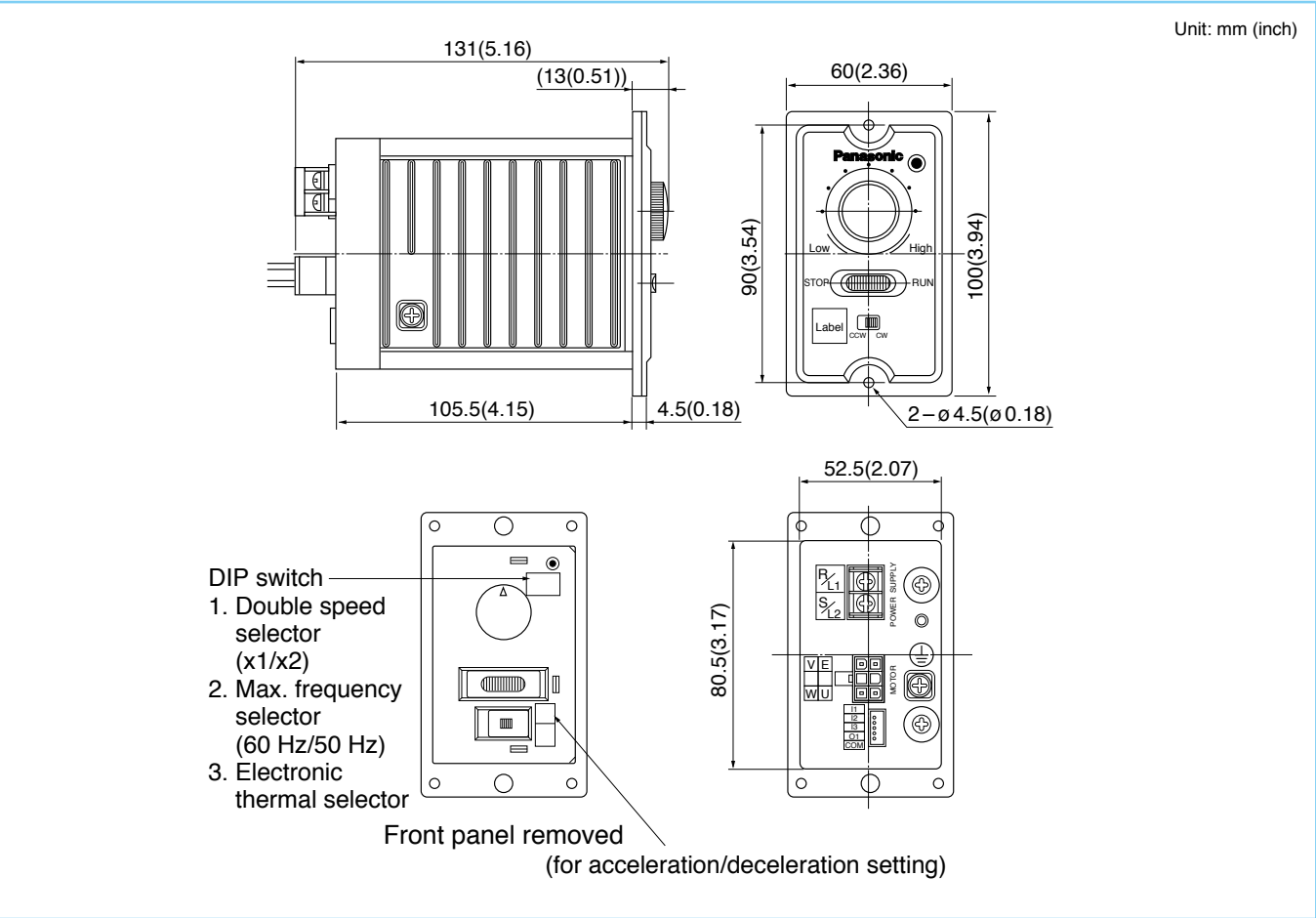
* Before using the product, carefully read through "Instruction manual" to understand the safety precautions and operation of it.

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

• Layout drawing



• Outline drawing



• Option

• Data line filter (DV0P031)

Unit: mm (inch)

17.5(0.69)MAX

3.0(0.12)

6.5(0.26)

16(0.63)

ø5.1(ø0.2) hole

51.5(2.03)

ø25.5(ø1.00)

34

1.34

• Power supply cord (DV0P137)

40(1.57)

3000(118.11)

40(1.57)

Terminal M3P0.5

Black

White

Green

Terminal M4P0.7

0.75 mm²(0.03 inch²) 3-core ø7(ø0.28)

90(3.54)

Terminal M4P0.7

Bk : Power supply

W : Power supply

Gn : GND

• Noise filter (DV0P140)

40(1.57)

30(1.18)

24(0.94)

6-ø3.5(ø0.14)

63(2.48)

72(2.83)

81(3.19)

13.5(0.53)

13.5(0.53)

4-M3P0.5

15(0.59)

33(1.30)

• Motor extension cord

L

Connector : 5557-06R-210

Pin : 5556TL (Molex)

Gn : GND

R : U

W : V

Bk : W

0.75 mm²(0.03 inch²) 4-core 10(ø0.39) black

Option part No.	L : m (inch)
DV0P13802	2(78.74)
DV0P13803	3(118.11)
DV0P13805	5(196.85)

• External control extension cord

L

30(1.18)

1

5

90(3.54)

Terminal M4P0.7

5-core shielded cable, gray

Connector : IL-5S-S3L-(N)

Pin : IL-C2-10000 (Japan Aviation Electronics Industry)

Option part No.	L : m (inch)
DV0P13902	2(78.74)
DV0P13903	3(118.11)
DV0P13905	5(196.85)

Connector Pin No.	Conductor color	Terminal symbol
5	W	I1
4	R	I2
3	Bk	I3
2	Y	O1
1	Gn	COM

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