



• Features

- Maintenance-free**
 Unlike a relay control panel, wiring is not necessary. Contactless configuration requires no maintenance.
- Various motor capacities can be selected.**
 Can support 1 W to 90 W motors. With 40 W or larger motors, selection can be made with the brake torque switch. Brake resistor is not required and wiring is simplified.
- Easier standardization of panel design**
 Control panel can be sized to DIN standard at lower total cost.
- Various options**
 One option, mounting frame, for example, allows installation of the unit on the panel.
- Soft-braking capability**
 The brake torque switch has "LOW" position. In this position, the brake torque is reduced.
- Braking time**
 Time is simply adjustable from the selector switch.

• Specification

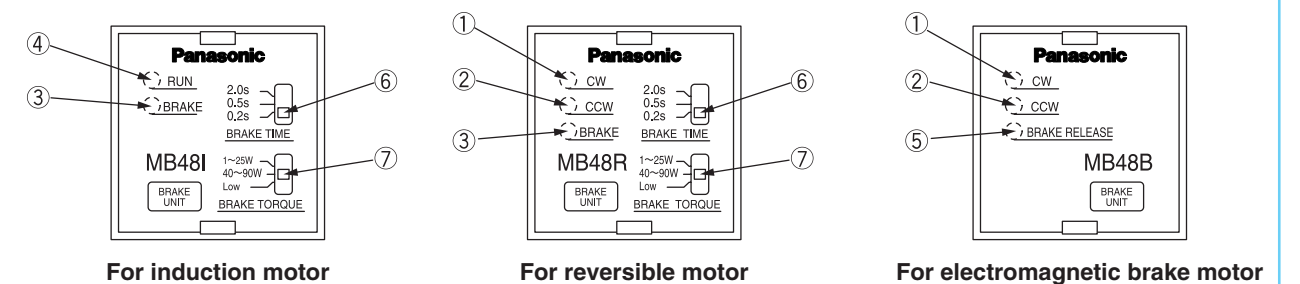
| Item | Part No. | DVMB481L | DVMB481Y | DVMB48RL | DVMB48RY | DVMB48BL | DVMB48BY |
|-------------------------------|----------|--|-------------------------|--|-------------------------|-----------------------------|-------------------------|
| Rated voltage | | Single-phase 100 VAC | Single-phase 200 VAC | Single-phase 100 VAC | Single-phase 200 VAC | Single-phase 100 VAC | Single-phase 200 VAC |
| Operating voltage | | ±10% at rated voltage | | | | | |
| Power frequency | | 50/60 Hz | | | | | |
| Applicable motor | | Induction motor | | Reversible motor | | Electromagnetic brake motor | |
| Selection of applicable motor | | Selectable from changeover switch | | <ul style="list-style-type: none"> • 1 W to 25 W • 40 W to 90 W • LOW | | --- | |
| Electric brake operating time | | Selectable from changeover switch 2/0.5/0.2 sec | | --- | | --- | |
| Normal/reverse rotation | | × | | ○ | | ○ | |
| Electric brake | | ○ | | ○ | | × | |
| Electromagnetic brake drive | | × | | × | | ○ | |
| Control voltage input | | DC12 to 24 V (±10%) | | | | | |
| Operating temperature | | -10°C to 40°C | | | | | |
| Storage temperature | | -20°C to 60°C | | | | | |
| Operating humidity | | 85% RH or below (no dewing) | | | | | |

[Notes]

- Electric braking system has no holding torque.
- Reversible motor is provided with a simple constant sliding brake with slight holding force. For application requiring larger holding force, use Panasonic electromagnetic brake motor.
- When braking a load with excessively large inertia, related issues are strength and life of motor shaft and gear. For these subjects, consult us.
- When using motor other than compact geared motor, consult us.

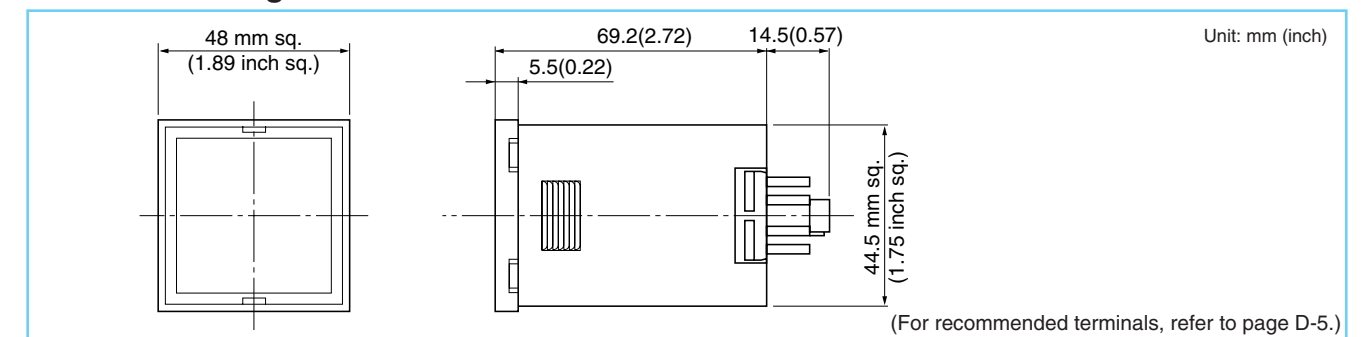
* Please read your User's manual carefully so that you will understand the operation and safety precautions before attempting to operate the system.

• Names and functions



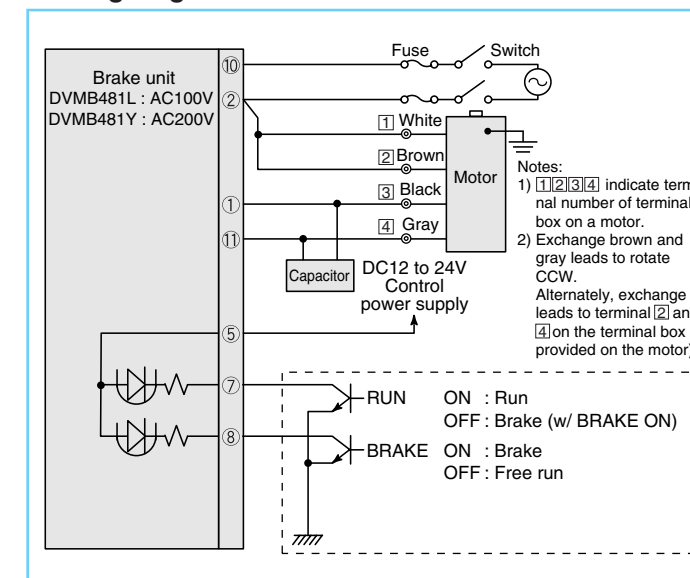
| Name | Functional description | | | | | | |
|---|--|-------------|--------------------------|--------------|---------------------------|-----|---|
| 1 CW lamp | Indicates that the motor output shaft is rotating CW. | | | | | | |
| 2 CCW lamp | Indicates that the motor output shaft is rotating CCW. | | | | | | |
| 3 BRAKE lamp | Indicates that the electric brake is being applied. | | | | | | |
| 4 RUN lamp | Indicates that the motor is operating. | | | | | | |
| 5 BRAKE RELEASE lamp | Indicates that current is flowing through the electromagnetic brake. (Brake is released as the electromagnetic brake is energized.) | | | | | | |
| 6 BRAKE TIME selector | Adjust the application time of electric brake according to inertia of the load. Standard setting is 0.2 sec (recommended) | | | | | | |
| 7 BRAKE TORQUE selector (selection of motor output) | <table border="0"> <tr> <td>1 W to 25 W</td> <td>For motor of 1 W to 25 W</td> </tr> <tr> <td>40 W to 90 W</td> <td>For motor of 40 W to 90 W</td> </tr> <tr> <td>Low</td> <td>To reduce impact during braking with motor of 1 W to 90 W</td> </tr> </table> | 1 W to 25 W | For motor of 1 W to 25 W | 40 W to 90 W | For motor of 40 W to 90 W | Low | To reduce impact during braking with motor of 1 W to 90 W |
| 1 W to 25 W | For motor of 1 W to 25 W | | | | | | |
| 40 W to 90 W | For motor of 40 W to 90 W | | | | | | |
| Low | To reduce impact during braking with motor of 1 W to 90 W | | | | | | |

• Outline drawing

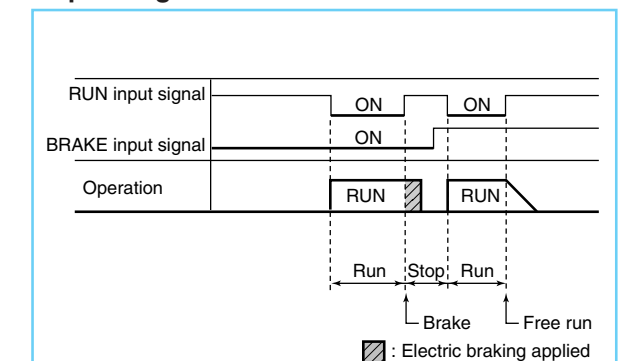


• Fundamental electrical wiring diagram (induction motor)

<Wiring diagram>



<Operating method>



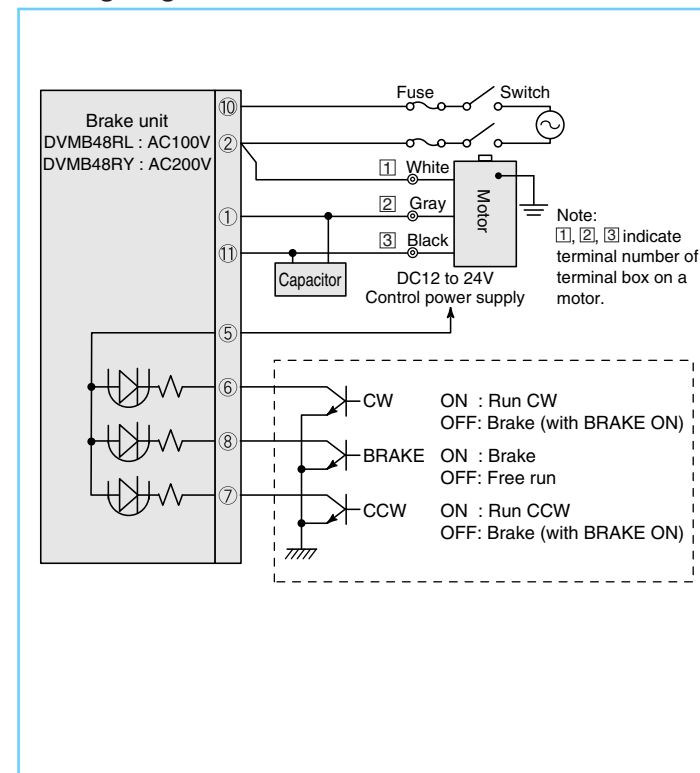
[Notes]

- Connect the brake unit only to a single motor.
- The thick continuous lines represent main circuit. Use conductor of size approx. 0.75 mm².
- Never input RUN signal while electric braking is applied.

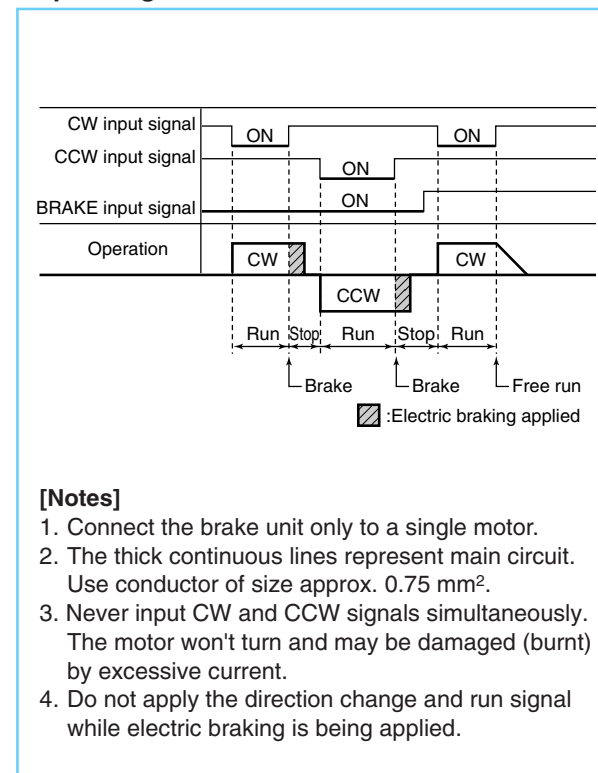
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• Fundamental electrical wiring diagram (reversible motor)

<Wiring diagram>

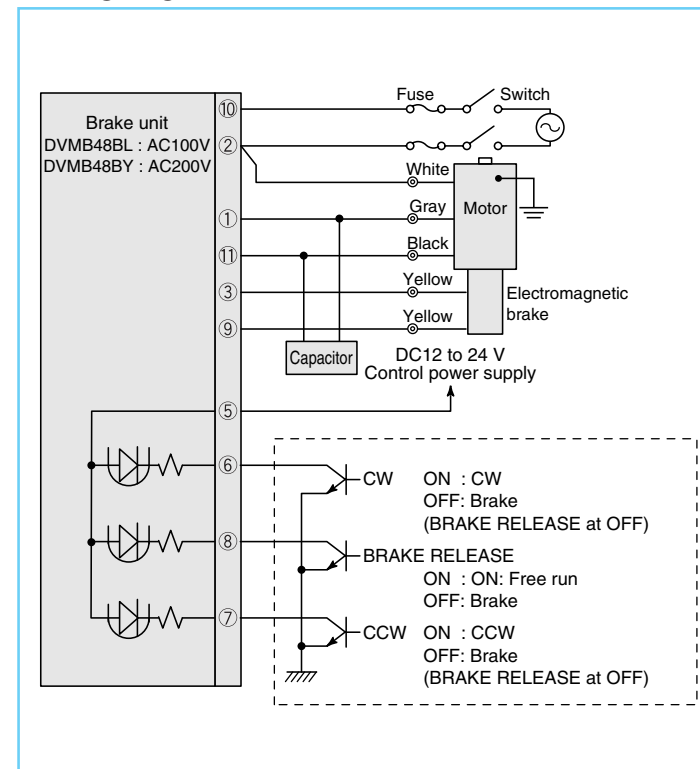


<Operating method>



• Fundamental electrical wiring diagram (electromagnetic brake motor)

<Wiring diagram>



<Operating method>

