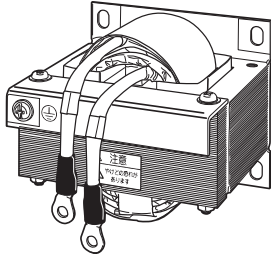


## Multi-function Compact Inverter MX2-Series V2 type

### DC Reactor (3G3AX-DL□□□□)

Use these reactors to suppress harmonics generated from the inverter.



### Specifications

| Inverter                    |                                     |                 |                         |                                     |                         | DC reactor specifications |                 |                     |                                         |                                                                           |
|-----------------------------|-------------------------------------|-----------------|-------------------------|-------------------------------------|-------------------------|---------------------------|-----------------|---------------------|-----------------------------------------|---------------------------------------------------------------------------|
| Voltage class               | Max. applicable motor capacity [kW] | Model           | Normal/ Light load mode | Max. applicable motor capacity [kW] | Rated input current [A] | Model                     | Inductance [mH] | Heat generation [W] | Operating ambient temperature/ humidity | Location                                                                  |
| 3-phase<br>200-V class      | 0.1                                 | 3G3MX2-A2001-V2 | Normal load *1          | 0.1                                 | 1.0                     | 3G3AX-DL2002              | 21.4            | 8                   | -10 to 50°C<br><br>20% to 90%           | At an altitude of 1,000 m max.; indoors (without corrosive gases or dust) |
|                             |                                     |                 | Light load              | 0.2                                 | 1.2                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.2                                 | 3G3MX2-A2002-V2 | Normal load *1          | 0.2                                 | 1.6                     | 3G3AX-DL2004              | 10.7            | 10                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 0.4                                 | 1.9                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.4                                 | 3G3MX2-A2004-V2 | Normal load *1          | 0.4                                 | 3.3                     | 3G3AX-DL2007              | 6.75            | 13                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 0.75                                | 3.9                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.75                                | 3G3MX2-A2007-V2 | Normal load *1          | 0.75                                | 6.0                     | 3G3AX-DL2015              | 3.51            | 20                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 1.1                                 | 7.2                     |                           |                 |                     |                                         |                                                                           |
|                             | 1.5                                 | 3G3MX2-A2015-V2 | Normal load *1          | 1.5                                 | 9.0                     | 3G3AX-DL2022              | 2.51            | 26                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 2.2                                 | 10.8                    |                           |                 |                     |                                         |                                                                           |
|                             | 2.2                                 | 3G3MX2-A2022-V2 | Normal load *1          | 2.2                                 | 12.7                    | 3G3AX-DL2037              | 1.60            | 36                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 3.0                                 | 13.9                    |                           |                 |                     |                                         |                                                                           |
|                             | 3.7                                 | 3G3MX2-A2037-V2 | Normal load *1          | 3.7                                 | 20.5                    | 3G3AX-DL2055              | 1.11            | 52                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 5.5                                 | 23.0                    |                           |                 |                     |                                         |                                                                           |
|                             | 5.5                                 | 3G3MX2-A2055-V2 | Normal load *1          | 5.5                                 | 30.8                    | 3G3AX-DL2075              | 0.84            | 60                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 7.5                                 | 37.0                    |                           |                 |                     |                                         |                                                                           |
|                             | 7.5                                 | 3G3MX2-A2075-V2 | Normal load *1          | 7.5                                 | 39.6                    | 3G3AX-DL2110              | 0.59            | 63                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 11                                  | 48.0                    |                           |                 |                     |                                         |                                                                           |
|                             | 11                                  | 3G3MX2-A2110-V2 | Normal load *1          | 11                                  | 57.1                    | 3G3AX-DL2150              | 0.44            |                     |                                         |                                                                           |
|                             |                                     |                 | Light load              | 15                                  | 68.0                    |                           |                 |                     |                                         |                                                                           |
|                             | 15                                  | 3G3MX2-A2150-V2 | Normal load *1          | 15                                  | 62.6                    | 3G3AX-DL2220              | 0.30            |                     |                                         |                                                                           |
|                             |                                     |                 | Light load              | 18.5                                | 72.0                    |                           |                 |                     |                                         |                                                                           |
| Single-phase<br>200-V Class | 0.1                                 | 3G3MX2-AB001-V2 | Normal load *1          | 0.1                                 | 1.3                     | 3G3AX-DL2002              | 21.4            | 8                   | -10 to 50°C<br><br>20% to 90%           | At an altitude of 1,000 m max.; indoors (without corrosive gases or dust) |
|                             |                                     |                 | Light load              | 0.2                                 | 2.0                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.2                                 | 3G3MX2-AB002-V2 | Normal load *1          | 0.2                                 | 3.0                     | 3G3AX-DL2004              | 10.7            | 10                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 0.4                                 | 3.6                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.4                                 | 3G3MX2-AB004-V2 | Normal load *1          | 0.4                                 | 6.3                     | 3G3AX-DL2007              | 6.75            | 13                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 0.55                                | 7.3                     |                           |                 |                     |                                         |                                                                           |
|                             | 0.75                                | 3G3MX2-AB007-V2 | Normal load *1          | 0.75                                | 11.5                    | 3G3AX-DL2015              | 3.51            | 20                  |                                         |                                                                           |
|                             |                                     |                 | Light load              | 1.1                                 | 13.8                    |                           |                 |                     |                                         |                                                                           |
|                             | 1.5                                 | 3G3MX2-AB015-V2 | Normal load *1          | 1.5                                 | 16.8                    | 3G3AX-DL2022              | 2.51            |                     |                                         |                                                                           |
|                             |                                     |                 | Light load              | 2.2                                 | 20.2                    |                           |                 |                     |                                         |                                                                           |
|                             | 2.2                                 | 3G3MX2-AB022-V2 | Normal load *1          | 2.2                                 | 22.0                    | 3G3AX-DL2037              | 1.60            |                     |                                         |                                                                           |
|                             |                                     |                 | Light load              | 3.0                                 | 24.0                    |                           |                 |                     |                                         |                                                                           |

# Multi-function Compact Inverter MX2-Series V2 type

| Inverter            |                                     |                 |                         |                                     |                         | DC reactor specifications |                 |                     |                                         |                                                                           |
|---------------------|-------------------------------------|-----------------|-------------------------|-------------------------------------|-------------------------|---------------------------|-----------------|---------------------|-----------------------------------------|---------------------------------------------------------------------------|
| Voltage class       | Max. applicable motor capacity [kW] | Model           | Normal/ Light load mode | Max. applicable motor capacity [kW] | Rated input current [A] | Model                     | Inductance [mH] | Heat generation [W] | Operating ambient temperature/ humidity | Location                                                                  |
| 3-phase 400-V class | 0.4                                 | 3G3MX2-A4004-V2 | Normal load *1          | 0.4                                 | 1.8                     | 3G3AX-DL4004              | 43.0            | 10                  | -10 to 50°C<br><br>20% to 90%           | At an altitude of 1,000 m max.; indoors (without corrosive gases or dust) |
|                     |                                     |                 | Light load              | 0.75                                | 2.1                     | 3G3AX-DL4007              | 27.0            |                     |                                         |                                                                           |
|                     | 0.75                                | 3G3MX2-A4007-V2 | Normal load *1          | 0.75                                | 3.6                     | 3G3AX-DL4015              | 14.0            |                     |                                         |                                                                           |
|                     |                                     |                 | Light load              | 1.5                                 | 4.3                     | 3G3AX-DL4022              | 10.1            |                     |                                         |                                                                           |
|                     | 1.5                                 | 3G3MX2-A4015-V2 | Normal load *1          | 1.5                                 | 5.2                     | 3G3AX-DL4037              | 6.4             | 20                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 2.2                                 | 5.9                     |                           |                 |                     |                                         |                                                                           |
|                     | 2.2                                 | 3G3MX2-A4022-V2 | Normal load *1          | 2.2                                 | 6.5                     | 3G3AX-DL4055              | 4.41            | 26                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 3.0                                 | 8.1                     |                           |                 |                     |                                         |                                                                           |
|                     | 3.0                                 | 3G3MX2-A4030-V2 | Normal load *1          | 3.0                                 | 7.7                     | 3G3AX-DL4075              | 3.35            | 36                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 4.0                                 | 9.4                     |                           |                 |                     |                                         |                                                                           |
|                     | 4.0                                 | 3G3MX2-A4040-V2 | Normal load *1          | 4.0                                 | 11.0                    | 3G3AX-DL4110              | 2.33            | 52                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 5.5                                 | 13.3                    |                           |                 |                     |                                         |                                                                           |
|                     | 5.5                                 | 3G3MX2-A4055-V2 | Normal load *1          | 5.5                                 | 16.9                    | 3G3AX-DL4150              | 1.75            | 60                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 7.5                                 | 20.0                    |                           |                 |                     |                                         |                                                                           |
|                     | 7.5                                 | 3G3MX2-A4075-V2 | Normal load *1          | 7.5                                 | 18.8                    | 3G3AX-DL4220              | 1.2             | 67                  |                                         |                                                                           |
|                     |                                     |                 | Light load              | 11                                  | 24.0                    |                           |                 |                     |                                         |                                                                           |
|                     | 11                                  | 3G3MX2-A4110-V2 | Normal load *1          | 11                                  | 29.4                    |                           |                 |                     |                                         |                                                                           |
|                     |                                     |                 | Light load              | 15                                  | 38.0                    |                           |                 |                     |                                         |                                                                           |
| 15                  | 3G3MX2-A4150-V2                     | Normal load *1  | 15                      | 35.9                                |                         |                           |                 |                     |                                         |                                                                           |
|                     |                                     | Light load      | 18.5                    | 44.0                                |                         |                           |                 |                     |                                         |                                                                           |

\*1. The DC reactor model for the normal load mode is selected with reference to the rated current value of a general-purpose motor, which is 85% of the rated output current of the Inverter. If you intend to constantly drive a motor whose rated current value exceeds 85% of the rated output current of the inverter, use the DC reactor model selected for the light-load mode.

# Multi-function Compact Inverter MX2-Series V2 type

## Dimensions (Unit: mm)

| Inverter input power supply | Model        | Fig. No. | Applicable Motor capacity [kW] | Dimensions [mm] |     |     |     |     |     |     |       |    | Weight [kg] | Standard applicable wire  |
|-----------------------------|--------------|----------|--------------------------------|-----------------|-----|-----|-----|-----|-----|-----|-------|----|-------------|---------------------------|
|                             |              |          |                                | W               | D   | H   | A   | B   | X   | Y   | C     | K  |             |                           |
| 3-phase/<br>1-phase 200 VAC | 3G3AX-DL2002 | Fig. 1   | 0.1, 0.2                       | 66              | 90  | 98  | -   | 85  | 56  | 72  | 5.2×8 | M4 | 0.8         | 1.25 mm <sup>2</sup> min. |
|                             | 3G3AX-DL2004 |          | 0.4                            | 66              | 90  | 98  | -   | 95  | 56  | 72  | 5.2×8 | M4 | 1.0         | 1.25 mm <sup>2</sup> min. |
|                             | 3G3AX-DL2007 |          | 0.55, 0.75                     | 66              | 90  | 98  | -   | 105 | 56  | 72  | 5.2×8 | M4 | 1.3         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL2015 |          | 1.1, 1.5                       | 66              | 90  | 98  | -   | 115 | 56  | 72  | 5.2×8 | M4 | 1.6         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL2022 |          | 2.2                            | 86              | 100 | 116 | -   | 105 | 71  | 80  | 6×9   | M4 | 2.1         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL2037 | Fig. 2   | 3.0, 3.7                       | 86              | 100 | 118 | -   | 120 | 71  | 80  | 6×9   | M4 | 2.6         | 3.5 mm <sup>2</sup> min.  |
|                             | 3G3AX-DL2055 |          | 5.5                            | 111             | 100 | 210 | -   | 110 | 95  | 80  | 7×11  | M5 | 3.6         | 8 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL2075 |          | 7.5                            | 111             | 100 | 212 | -   | 120 | 95  | 80  | 7×11  | M6 | 3.9         | 14 mm <sup>2</sup> min.   |
|                             | 3G3AX-DL2110 |          | 11                             | 146             | 120 | 252 | -   | 110 | 124 | 96  | 7×11  | M6 | 6.5         | 22 mm <sup>2</sup> min.   |
|                             | 3G3AX-DL2150 |          | 15                             | 146             | 120 | 256 | -   | 120 | 124 | 96  | 7×11  | M8 | 7.0         | 38 mm <sup>2</sup> min.   |
|                             | 3G3AX-DL2220 | Fig. 3   | 18.5                           | 120             | 175 | 356 | 140 | 145 | 98  | 151 | 7×11  | M8 | 9.0         | 60 mm <sup>2</sup> min.   |
| 3-phase 400 VAC             | 3G3AX-DL4004 | Fig. 1   | 0.4                            | 66              | 90  | 98  | -   | 85  | 56  | 72  | 5.2×8 | M4 | 0.8         | 1.25 mm <sup>2</sup> min. |
|                             | 3G3AX-DL4007 |          | 0.75                           | 66              | 90  | 98  | -   | 95  | 56  | 72  | 5.2×8 | M4 | 1.1         | 1.25 mm <sup>2</sup> min. |
|                             | 3G3AX-DL4015 |          | 1.5                            | 66              | 90  | 98  | -   | 115 | 56  | 72  | 5.2×8 | M4 | 1.6         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL4022 |          | 2.2                            | 86              | 100 | 116 | -   | 105 | 71  | 80  | 6×9   | M4 | 2.1         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL4037 |          | 3.0                            | 86              | 100 | 116 | -   | 120 | 71  | 80  | 6×9   | M4 | 2.6         | 2 mm <sup>2</sup> min.    |
|                             | 3G3AX-DL4055 | Fig. 2   | 5.5                            | 111             | 100 | 138 | -   | 110 | 95  | 80  | 7×11  | M4 | 3.6         | 3.5 mm <sup>2</sup> min.  |
|                             | 3G3AX-DL4075 |          | 7.5                            | 111             | 100 | 138 | -   | 115 | 95  | 80  | 7×11  | M4 | 3.9         | 3.5 mm <sup>2</sup> min.  |
|                             | 3G3AX-DL4110 |          | 11                             | 146             | 120 | 250 | -   | 105 | 124 | 96  | 7×11  | M5 | 5.2         | 5.5 mm <sup>2</sup> min.  |
|                             | 3G3AX-DL4150 |          | 15                             | 146             | 120 | 252 | -   | 120 | 124 | 96  | 7×11  | M6 | 7.0         | 14 mm <sup>2</sup> min.   |
|                             | 3G3AX-DL4220 | Fig. 3   | 18.5                           | 120             | 175 | 352 | 140 | 145 | 98  | 151 | 7×11  | M6 | 9.5         | 22 mm <sup>2</sup> min.   |

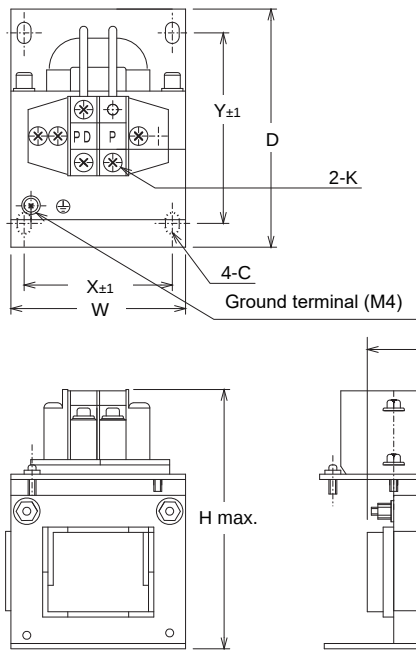


Fig. 1

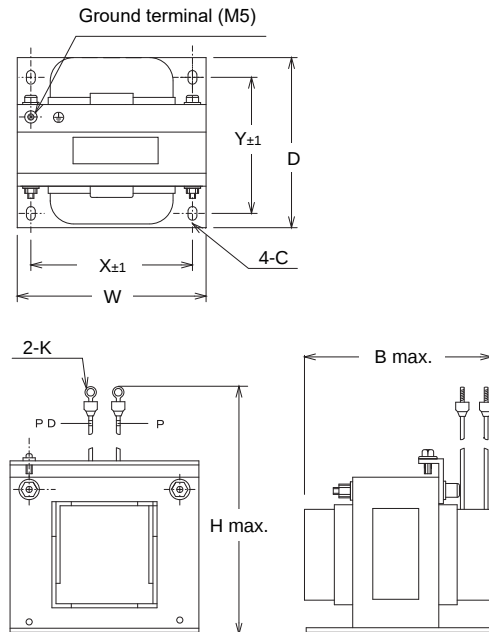


Fig. 2

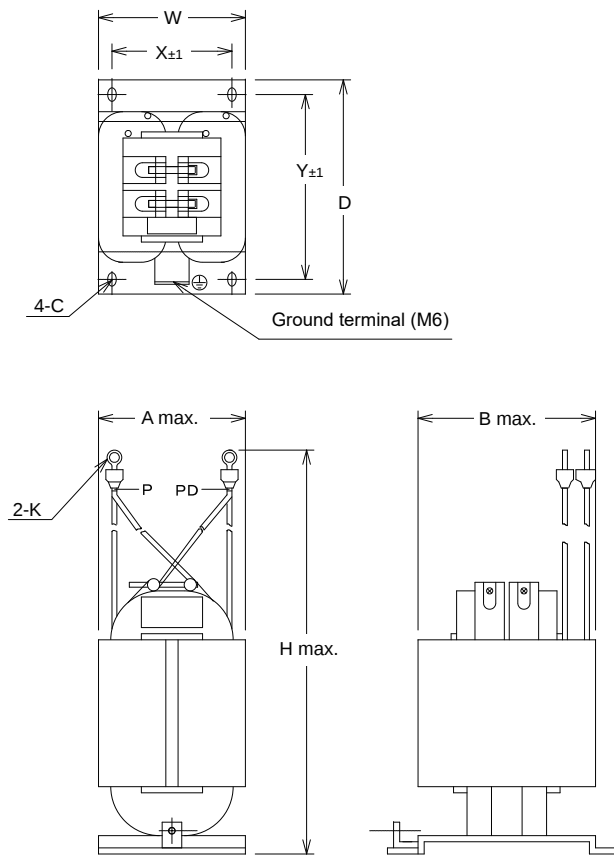
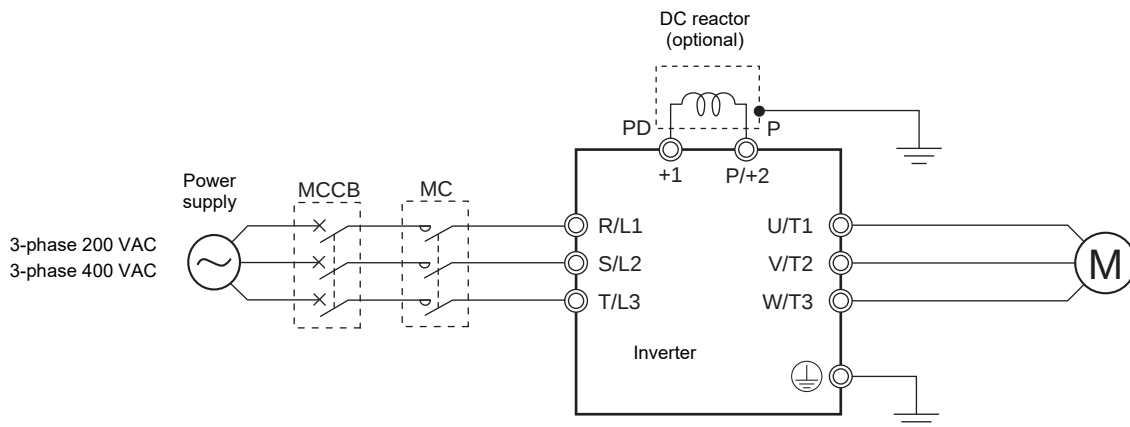


Fig. 3

## Connection Examples



### DC Reactor Connection Terminals (+1, P/+2)

- These terminals are used to connect the optional DC reactor for power factor improvement.
- By factory setting, a short-circuit bar is connected between the terminals +1 and P/+2. Before connecting the DC reactor, remove this short-circuit bar.
- The length of the DC reactor connection cable must be 5 m or shorter.
- The DC reactor has no polarity.

**Note: 1.** Remove the short-circuit bar only if you connect the DC reactor for use.

If you remove the short-circuit bar with the DC reactor unconnected, the inverter cannot operate because no power is supplied to its main circuit.