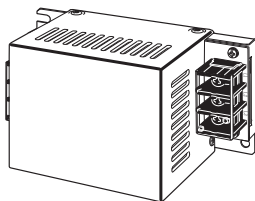


## Input Noise Filter (3G3AX-NFI□□)

Use this filter to reduce the conductive noise generated in the inverter and transmitted to power supply lines.



## Specifications

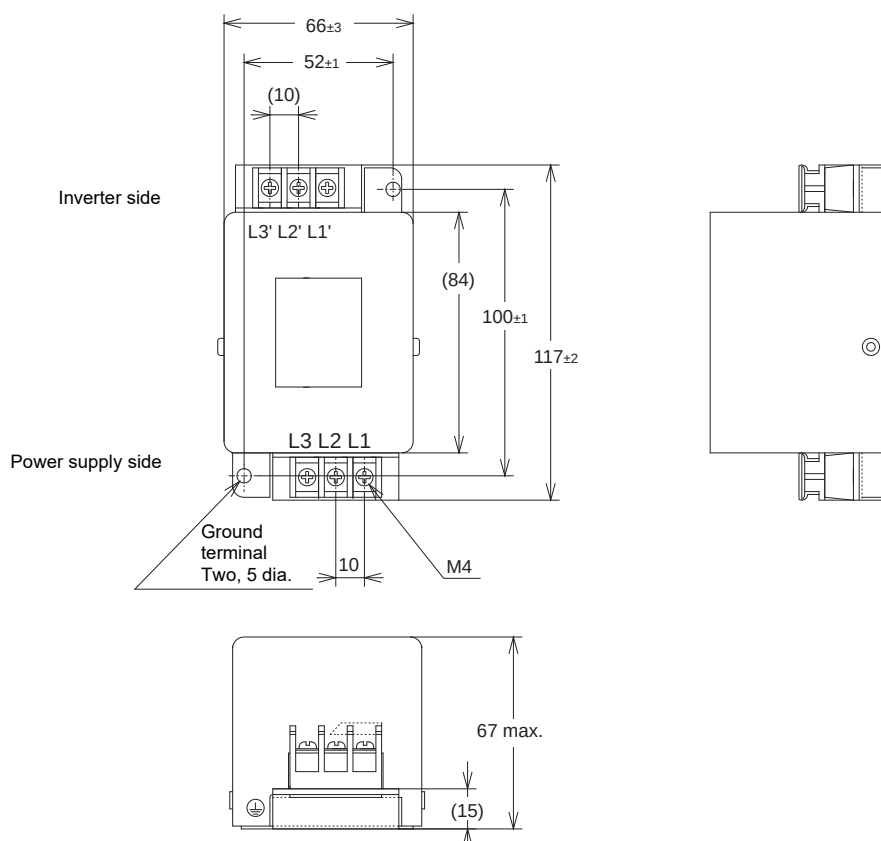
| Inverter                 |                                     |                 |                         |                                     |                         | Input noise filter specifications |                    |                               |                     |                            |             |
|--------------------------|-------------------------------------|-----------------|-------------------------|-------------------------------------|-------------------------|-----------------------------------|--------------------|-------------------------------|---------------------|----------------------------|-------------|
| Voltage class            | Max. applicable motor capacity [kW] | Model           | Normal/ Light load mode | Max. applicable motor capacity [kW] | Rated input current [A] | Model                             | Max. input voltage | Rated input current (at 50°C) | Heat generation [W] | Leakage current (at 60 Hz) |             |
| 3-phase 200-V Class      | 0.1                                 | 3G3MX2-A2001-V2 | Normal load             | 0.1                                 | 1.0                     | 3G3AX-NFI21                       | 250 VAC +10%       | 6 A                           | 3                   | 1.5 mA max. (250 VAC)      |             |
|                          |                                     |                 | Light load              | 0.2                                 | 1.2                     |                                   |                    |                               |                     |                            |             |
|                          | 0.2                                 | 3G3MX2-A2002-V2 | Normal load             | 0.2                                 | 1.6                     |                                   |                    |                               |                     |                            | 3G3AX-NFI21 |
|                          |                                     |                 | Light load              | 0.4                                 | 1.9                     |                                   |                    |                               |                     |                            |             |
|                          | 0.4                                 | 3G3MX2-A2004-V2 | Normal load             | 0.4                                 | 3.3                     |                                   |                    |                               |                     |                            | 3G3AX-NFI21 |
|                          |                                     |                 | Light load              | 0.75                                | 3.9                     |                                   |                    |                               |                     |                            |             |
|                          | 0.75                                | 3G3MX2-A2007-V2 | Normal load             | 0.75                                | 6.0                     | 3G3AX-NFI22                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 1.1                                 | 7.2                     |                                   |                    |                               |                     |                            |             |
|                          | 1.5                                 | 3G3MX2-A2015-V2 | Normal load             | 1.5                                 | 9.0                     | 3G3AX-NFI23                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 2.2                                 | 10.8                    |                                   |                    |                               |                     |                            |             |
|                          | 2.2                                 | 3G3MX2-A2022-V2 | Normal load             | 2.2                                 | 12.7                    | 3G3AX-NFI23                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 3.0                                 | 13.9                    |                                   |                    |                               |                     |                            |             |
|                          | 3.7                                 | 3G3MX2-A2037-V2 | Normal load             | 3.7                                 | 20.5                    | 3G3AX-NFI24                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 5.5                                 | 23.0                    |                                   |                    |                               |                     |                            |             |
|                          | 5.5                                 | 3G3MX2-A2055-V2 | Normal load             | 5.5                                 | 30.8                    | 3G3AX-NFI25                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 7.5                                 | 37.0                    |                                   |                    |                               |                     |                            |             |
|                          | 7.5                                 | 3G3MX2-A2075-V2 | Normal load             | 7.5                                 | 39.6                    | 3G3AX-NFI26                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 11                                  | 48.0                    |                                   |                    |                               |                     |                            |             |
|                          | 11                                  | 3G3MX2-A2110-V2 | Normal load             | 11                                  | 57.1                    | 3G3AX-NFI27                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 15                                  | 68.0                    |                                   |                    |                               |                     |                            |             |
| 15                       | 3G3MX2-A2150-V2                     | Normal load     | 15                      | 62.6                                | 3G3AX-NFI27             |                                   |                    |                               |                     |                            |             |
|                          |                                     | Light load      | 18.5                    | 72.0                                |                         |                                   |                    |                               |                     |                            |             |
| Single-phase 200-V Class | 0.1                                 | 3G3MX2-AB001-V2 | Normal load             | 0.1                                 | 1.3                     | 3G3AX-NFI21                       | 250 VAC +10%       | 6 A                           | 3                   | 1.5 mA max. (250 VAC)      |             |
|                          |                                     |                 | Light load              | 0.2                                 | 2.0                     |                                   |                    |                               |                     |                            |             |
|                          | 0.2                                 | 3G3MX2-AB002-V2 | Normal load             | 0.2                                 | 3.0                     |                                   |                    |                               |                     |                            | 3G3AX-NFI21 |
|                          |                                     |                 | Light load              | 0.4                                 | 3.6                     |                                   |                    |                               |                     |                            |             |
|                          | 0.4                                 | 3G3MX2-AB004-V2 | Normal load             | 0.4                                 | 6.3                     | 3G3AX-NFI22                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 0.55                                | 7.3                     |                                   |                    |                               |                     |                            |             |
|                          | 0.75                                | 3G3MX2-AB007-V2 | Normal load             | 0.75                                | 11.5                    | 3G3AX-NFI23                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 1.1                                 | 13.8                    |                                   |                    |                               |                     |                            |             |
|                          | 1.5                                 | 3G3MX2-AB015-V2 | Normal load             | 1.5                                 | 16.8                    | 3G3AX-NFI24                       |                    |                               |                     |                            |             |
|                          |                                     |                 | Light load              | 2.2                                 | 20.2                    |                                   |                    |                               |                     |                            |             |
|                          | 2.2                                 | 3G3MX2-AB022-V2 | Normal load             | 2.2                                 | 22.0                    |                                   |                    | 3G3AX-NFI24                   |                     |                            |             |
|                          |                                     |                 | Light load              | 3.0                                 | 24.0                    |                                   |                    |                               |                     |                            |             |

# Multi-function Compact Inverter MX2-Series V2 type

| Inverter            |                                     |                 |                         |                                     |                         | Input noise filter specifications |                    |                               |                     |                            |             |             |
|---------------------|-------------------------------------|-----------------|-------------------------|-------------------------------------|-------------------------|-----------------------------------|--------------------|-------------------------------|---------------------|----------------------------|-------------|-------------|
| Voltage class       | Max. applicable motor capacity [kW] | Model           | Normal/ Light load mode | Max. applicable motor capacity [kW] | Rated input current [A] | Model                             | Max. input voltage | Rated input current (at 50°C) | Heat generation [W] | Leakage current (at 60 Hz) |             |             |
| 3-phase 400-V class | 0.4                                 | 3G3MX2-A4004-V2 | Normal load             | 0.4                                 | 1.8                     | 3G3AX-NFI41                       | 480 VAC +10%       | 7 A                           | 2                   | 7.5 mA max. (480 VAC)      |             |             |
|                     |                                     |                 | Light load              | 0.75                                | 2.1                     |                                   |                    |                               |                     |                            |             |             |
|                     | 0.75                                | 3G3MX2-A4007-V2 | Normal load             | 0.75                                | 3.6                     |                                   |                    |                               |                     |                            | 3G3AX-NFI42 |             |
|                     |                                     |                 | Light load              | 1.5                                 | 4.3                     |                                   |                    |                               |                     |                            |             |             |
|                     | 1.5                                 | 3G3MX2-A4015-V2 | Normal load             | 1.5                                 | 5.2                     |                                   |                    |                               |                     |                            |             | 3G3AX-NFI43 |
|                     |                                     |                 | Light load              | 2.2                                 | 5.9                     |                                   |                    |                               |                     |                            |             |             |
|                     | 2.2                                 | 3G3MX2-A4022-V2 | Normal load             | 2.2                                 | 6.5                     | 3G3AX-NFI44                       |                    |                               |                     |                            |             |             |
|                     |                                     |                 | Light load              | 3.0                                 | 8.1                     |                                   |                    |                               |                     |                            |             |             |
|                     | 3.0                                 | 3G3MX2-A4030-V2 | Normal load             | 3.0                                 | 7.7                     |                                   |                    | 3G3AX-NFI45                   |                     |                            |             |             |
|                     |                                     |                 | Light load              | 4.0                                 | 9.4                     |                                   |                    |                               |                     |                            |             |             |
|                     | 4.0                                 | 3G3MX2-A4040-V2 | Normal load             | 4.0                                 | 11.0                    |                                   |                    |                               | 3G3AX-NFI46         |                            |             |             |
|                     |                                     |                 | Light load              | 5.5                                 | 13.3                    |                                   |                    |                               |                     |                            |             |             |
|                     | 5.5                                 | 3G3MX2-A4055-V2 | Normal load             | 5.5                                 | 16.9                    | 3G3AX-NFI46                       |                    |                               |                     |                            |             |             |
|                     |                                     |                 | Light load              | 7.5                                 | 20.0                    |                                   |                    |                               |                     |                            |             |             |
|                     | 7.5                                 | 3G3MX2-A4075-V2 | Normal load             | 7.5                                 | 18.8                    |                                   |                    | 3G3AX-NFI46                   |                     |                            |             |             |
|                     |                                     |                 | Light load              | 11                                  | 24.0                    |                                   |                    |                               |                     |                            |             |             |
|                     | 11                                  | 3G3MX2-A4110-V2 | Normal load             | 11                                  | 29.4                    |                                   |                    |                               | 3G3AX-NFI46         |                            |             |             |
|                     |                                     |                 | Light load              | 15                                  | 38.0                    |                                   |                    |                               |                     |                            |             |             |
| 15                  | 3G3MX2-A4150-V2                     | Normal load     | 15                      | 35.9                                | 3G3AX-NFI46             |                                   |                    |                               |                     |                            |             |             |
|                     |                                     | Light load      | 18.5                    | 44.0                                |                         |                                   |                    |                               |                     |                            |             |             |

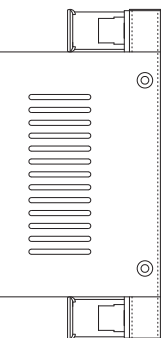
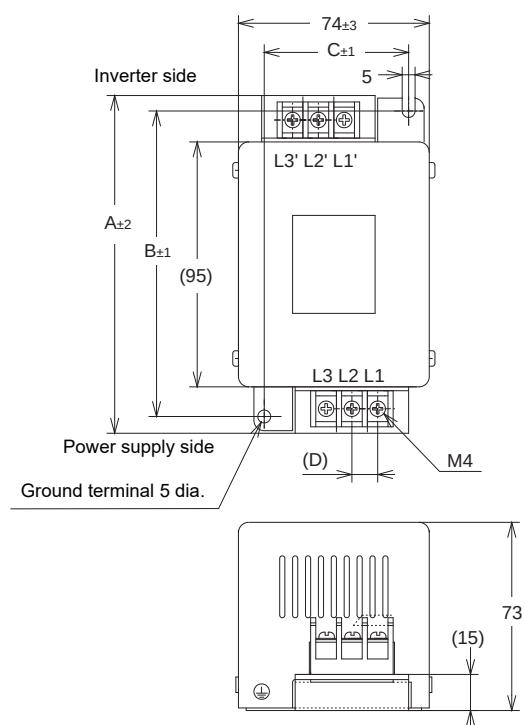
**Dimensions (Unit: mm)**

| Model       | Case, enclosure rating | Terminal size | Wire diameter                            | Weight [kg] |
|-------------|------------------------|---------------|------------------------------------------|-------------|
| 3G3AX-NFI21 | Plastic, IP00          | M4            | 1.25 mm <sup>2</sup>                     | 0.5         |
| 3G3AX-NFI22 | Plastic, IP00          | M4            | 2 mm <sup>2</sup>                        | 0.6         |
| 3G3AX-NFI23 | Plastic, IP00          | M4            | 2 mm <sup>2</sup> , 3.5 mm <sup>2</sup>  | 0.7         |
| 3G3AX-NFI24 | Plastic, IP00          | M4            | 5.5 mm <sup>2</sup>                      | 0.8         |
| 3G3AX-NFI25 | Plastic, IP00          | M5            | 8 mm <sup>2</sup>                        | 1.4         |
| 3G3AX-NFI26 | Plastic, IP00          | M5            | 14 mm <sup>2</sup>                       | 1.8         |
| 3G3AX-NFI27 | Metal, IP00            | M6            | 22 mm <sup>2</sup>                       | 3.6         |
| 3G3AX-NFI41 | Plastic, IP00          | M4            | 1.25 mm <sup>2</sup> , 2 mm <sup>2</sup> | 0.7         |
| 3G3AX-NFI42 | Plastic, IP00          | M4            | 2 mm <sup>2</sup>                        | 0.7         |
| 3G3AX-NFI43 | Plastic, IP00          | M4            | 2 mm <sup>2</sup> , 3.5 mm <sup>2</sup>  | 0.7         |
| 3G3AX-NFI44 | Plastic, IP00          | M4            | 5.5 mm <sup>2</sup>                      | 0.8         |
| 3G3AX-NFI45 | Plastic, IP00          | M5            | 8 mm <sup>2</sup>                        | 1.4         |
| 3G3AX-NFI46 | Plastic, IP00          | M5            | 14 mm <sup>2</sup>                       | 1.6         |

**3G3AX-NFI21/NFI22**


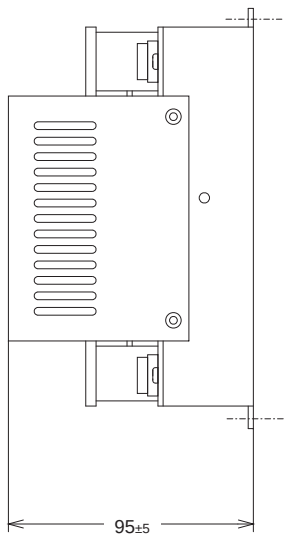
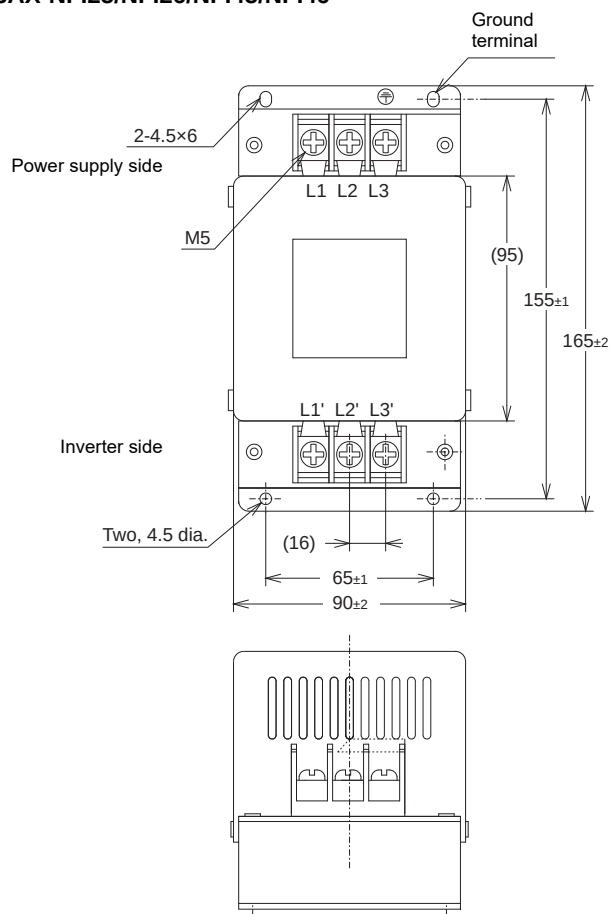
Multi-function Compact Inverter **MX2-Series V2 type**

**3G3AX-NFI23/NFI24/NFI41/NFI42/NFI43/NFI44**

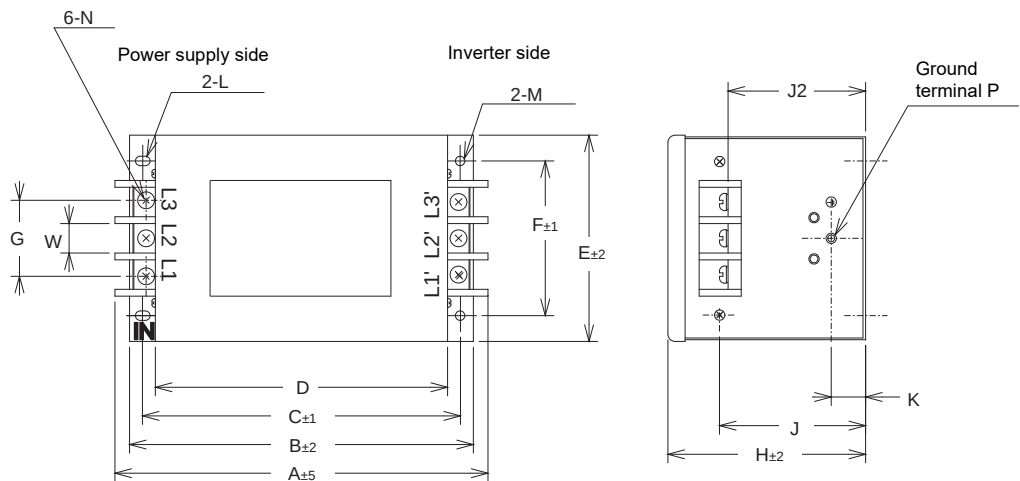


| Model       | Dimensions [mm] |     |    |    |
|-------------|-----------------|-----|----|----|
|             | A               | B   | C  | D  |
| 3G3AX-NFI23 | 128             | 118 | 56 | 10 |
| 3G3AX-NFI24 | 144             | 130 | 56 | 11 |
| 3G3AX-NFI41 | 144             | 130 | 56 | 11 |
| 3G3AX-NFI42 | 144             | 130 | 56 | 11 |
| 3G3AX-NFI43 | 144             | 130 | 56 | 11 |
| 3G3AX-NFI44 | 144             | 130 | 56 | 11 |

**3G3AX-NFI25/NFI26/NFI45/NFI46**



**3G3AX-NFI27**



| Model       | Dimensions [mm] |     |     |     |     |    |    |     |    |    |    |                   |          |    |    |    |
|-------------|-----------------|-----|-----|-----|-----|----|----|-----|----|----|----|-------------------|----------|----|----|----|
|             | A               | B   | C   | D   | E   | F  | G  | H   | J  | J2 | K  | L                 | M        | N  | P  | W  |
| 3G3AX-NFI27 | 217             | 200 | 185 | 170 | 120 | 90 | 44 | 115 | 85 | 82 | 20 | R2.75<br>Length 7 | 5.5 dia. | M6 | M4 | 17 |

**Connection Examples**

