## Midi 4-Pole Contactors



| Frame size | | | | 18AF | | |
|---|---|---|---|---|---|---|
| | | | | CC9/4 | CC12/4 | CC18/4 |
| Type | | | | | ● | |
| | Screw clamp terminal | | | | 4pole | |
| Number of poles | | | | | 690V | |
| Rated operational voltage (Ue) | | | | | 690V | |
| Rated insulation voltage (Ui) | | | | | 50/60Hz | |
| Rated frequency | | | | | 6kV | |
| Rated impulse withstand voltage, Uimp | | | | | 1800 operations per hour | |
| Maximum operating rate in operating cycles per hour(AC1) | | | | | 15 mil. Operations | |
| Durability | Mechanical | | | 0.5 mil. Operations | 0.8 mil. Operations | |
| | Electrical | | | | | |
| Current and Power | AC-1 | Thermal current | A | 25 | 25 | 40 |
| | | 200/240V | kW | 9 | 9 | 15 |
| | | | A | 25 | 25 | 40 |
| | | 380/400V | kW | 17 | 17 | 27 |
| | | | A | 25 | 25 | 40 |
| | | 500/550V | kW | 21 | 21 | 35 |
| | | | A | 25 | 25 | 40 |
| | | 690V | kW | 27 | 27 | 44 |
| | | | A | 25 | 25 | 40 |
| UL rating (50/60Hz) | Continuous current | | A | 25 | 25 | 32 |
| | Single Phase | 110~120V | HP | 0.5 | 0.75 | 1 |
| | | 220~240V | HP | 1.5 | 2 | 3 |
| | | 200~208V | HP | 2 | 3 | 5 |
| | Three Phase | 220~240V | HP | 3 | 5 | 7.5 |
| | | 440~480V | HP | 5 | 7.5 | 10 |
| | | 550~600V | HP | 7.5 | 10 | 15 |
| | NEMA Size | | | 00 | 0 | 0 |
| Size and weight  | AC Control | Weight | kg | | 0.33 | |
| | | Size(W×H×D) | mm | | 45×73.5× 79 | |
| | DC Control | Weight | kg | | 0.5 | |
| | | Size(W×H×D) | mm | | 45×73.5×110.7 | |
| Auxiliary(standard) | | | | | - | |
| Auxiliary | Side Mount | | | | GUA1 | |
| | Front Mount | | | | GUA2, GUA4 | |

# Table of Specifications







| 22AF | 40AF | | 85AF | | | |
|---|---|---|---|---|---|---|
| CC22/4 | CC32/4 | CC40/4 | CC50/4 | CC65/4 | CC75/4 | CC85/4 |
| ● | ● | | ● | | | |
| 4pole | 4pole | | 4pole | | | |
| 690V | 690V | | 690V | | | |
| 690V | 690V | | 1000V | | | |
| 50/60Hz | 50/60Hz | | 50/60Hz | | | |
| 6kV | 6kV | | 8kV | | | |
| 1800 operations | 1800 operations per hour | | 1800 operations per hour | | | |
| 15 mil. Operations | 15 mil. Operations | | 12 mil. Operations | | | |
| 1 mil. Operations | 1 mil. Operations | | 1 mil. Operations | | | |
| 40 | 50 | 60 | 80 | 100 | 110 | 135 |
| 15 | 18 | 22 | 30 | 37 | 41 | 51 |
| 40 | 50 | 60 | 80 | 100 | 110 | 135 |
| 27 | 35 | 42 | 56 | 70 | 76 | 95 |
| 40 | 50 | 60 | 80 | 100 | 110 | 135 |
| 35 | 43 | 52 | 70 | 88 | 97 | 120 |
| 40 | 50 | 60 | 80 | 100 | 110 | 135 |
| 44 | 55 | 66 | 88 | 110 | 120 | 150 |
| 40 | 50 | 60 | 80 | 100 | 110 | 135 |
| 32 | 45 | 50 | 70 | 80 | 90 | 100 |
| 2 | 2 | 3 | 3 | 5 | 5 | 7.5 |
| 3 | 5 | 5 | 7.5 | 10 | 15 | 15 |
| 7.5 | 7.5 | 10 | 10 | 15 | 20 | 25 |
| 7.5 | 10 | 10 | 15 | 20 | 25 | 30 |
| 10 | 20 | 25 | 30 | 40 | 50 | 50 |
| 15 | 20 | 25 | 30 | 40 | 50 | 50 |
| 1 | 1 | 1 | 2 | 2 | 2 | 3 |
| 0.4 | 0.59 | | 1.2 | | | |
| 47.2 × 80 × 86.8 | 59 × 83.5 × 94.5 | | 91 × 123.5 × 117.8 | | | |
| 0.5 | 0.7 | | 1.29 | | | |
| 47.2 × 80 × 113.2 | 59 × 83.5 × 121 | | 91 × 123.5 × 117.8 | | | |
| - | - | | - | | | |
| GUA1 | GUA1 | | GUA1 | | | |
| GUA2, GUA4 | GUA2, GUA4 | | GUA2, GUA4 | | | |

# Table of Specifications

## Power 4-Pole Contactors



| Frame size | | | | 225AF | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CC100/4 | CC130/4 | CC150/4 | CC185/4 | CC225/4 |
| Type | | | | | | ● | | |
| | Screw clamp terminal | | | | | 4pole | | |
| Number of poles | | | | | | 690V | | |
| Rated operational voltage (Ue) | | | | | | 1000V | | |
| Rated insulation voltage (Ui) | | | | | | 50/60Hz | | |
| Rated frequency | | | | | | 8kV | | |
| Rated impulse withstand voltage, Uimp | | | | | | 1200 operations per hour | | |
| Maximum operating rate in operating cycles per hour(AC1) | | | | | | 15 mil. Operations | | |
| Durability | Mechanical | | | | | 0.8 mil. Operations | | |
| | Electrical | | | | | | | |
| Current | | Thermal current | A | 160 | 165 | 250 | 300 | 330 |
| and | AC-1 | 200/240V | kW | 57 | 60 | 76 | 87 | 100 |
| Power | | | A | 150 | 155 | 200 | 230 | 260 |
| | | 380/400V | kW | 106 | 110 | 142 | 165 | 185 |
| | | | A | 150 | 155 | 200 | 230 | 260 |
| | | 500/550V | kW | 132 | 137 | 180 | 205 | 230 |
| | | | A | 150 | 155 | 200 | 230 | 260 |
| | | 690V | kW | 165 | 170 | 225 | 255 | 290 |
| | | | A | 150 | 155 | 200 | 230 | 260 |
| UL rating | Continuous current | | A | 160 | 160 | 210 | 230 | 275 |
| (50/60Hz) | Single | 110~120V | HP | 7.5 | 10 | 15 | 15 | 15 |
| | Phase | 220~240V | HP | 15 | 20 | 25 | 30 | 40 |
| | | 200~208V | HP | 30 | 40 | 40 | 60 | 60 |
| | Three | 220~240V | HP | 30 | 40 | 50 | 60 | 75 |
| | Phase | 440~480V | HP | 60 | 75 | 100 | 125 | 150 |
| | | 550~600V | HP | 60 | 75 | 100 | 125 | 150 |
| | NEMA Size | | | 3 | 3 | 4 | 4 | 4 |
| Size and weight  | AC Control | Weight | kg | | | 5.6 | | |
| | | Size(W×H×D) | mm | | | 175×203×185 | | |
| | DC Control | Weight | kg | | | | | |
| | | Size(W×H×D) | mm | | | | | |
| Auxiliary(standard) | | | | | | 2a2b | | |
| Auxiliary | Side Mount | | | | | AX100 | | |
| | Front Mount | | | | | - | | |

* - FLA = 722 A, LRA = 5618 A
** - FLA = 566 A, LRA = 4495 A

# Table of Specifications



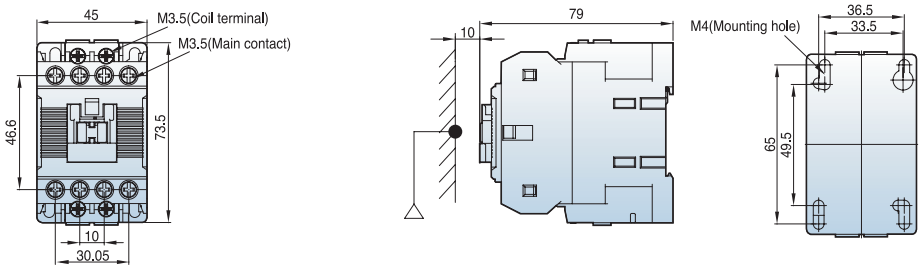


| 400AF | | | 800AF | | |
|---|---|---|---|---|---|
| CC265/4 | CC330/4 | CC400/4 | CC500/4 | CC630/4 | CC800/4 |
| | ● | | | ● | |
| | 4pole | | | 4pole | |
| | 690V | | | 690V | |
| | 1000V | | | 1000V | |
| | 50/60Hz | | | 50/60Hz | |
| | 8kV | | | 8kV | |
| | 1200 operations per hour | | | 1200 operations per hour | |
| | 15 mil. Operations | | | 12 mil. Operations | |
| | 0.5 mil. Operations | | | 0.5 mil. Operations | |
| 360 | 420 | 500 | 630 | 750 | 900 |
| 115 | 135 | 160 | 245 | 255 | 310 |
| 300 | 350 | 420 | 630 | 660 | 800 |
| 215 | 250 | 300 | 450 | 470 | 570 |
| 300 | 350 | 420 | 630 | 660 | 800 |
| 265 | 315 | 375 | 560 | 590 | 710 |
| 300 | 350 | 420 | 630 | 660 | 800 |
| 335 | 390 | 470 | 710 | 740 | 900 |
| 300 | 350 | 420 | 630 | 660 | 800 |
| 300 | 350 | 450 | 580 | 660 | 900 |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| 75 | 100 | 125 | 150 | 200 | 200 |
| 100 | 100 | 150 | 200 | 250 | 300 |
| 200 | 200 | 300 | 400 | 500 | 600 * |
| 200 | 200 | 300 | 400 | 500 | 600 ** |
| 5 | 5 | 5 | 6 | 6 | 7 |
| | 9.9 | | | 26.3 | |
| | 206×243×205 | | | 346×310 ×244 | |
| 2a2b | | | 2a2b | | |
| AX100 | | | AX100 | | |
| - | | | - | | |

# Contactors (CC9/4 ~ CC22/4)

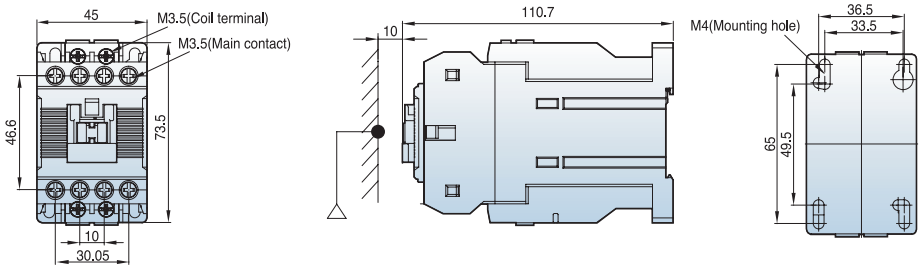
[mm]

**CC9/4 ~ CC18/4 AC coil**



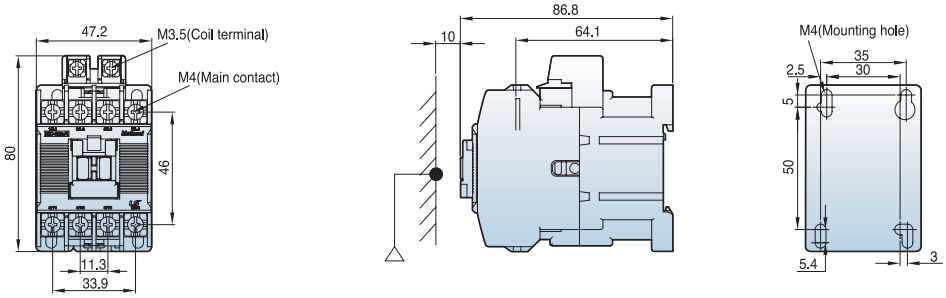

0.3kg

**CC9/4 ~ CC18/4 DC coil**



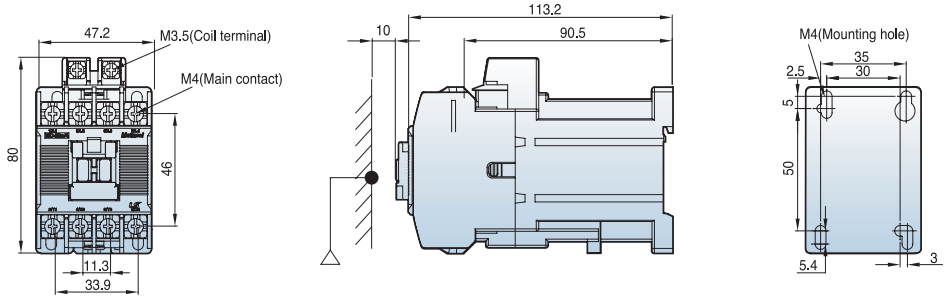

0.45kg

**CC22/4 AC coil**




0.4kg

**CC22/4 DC coil**

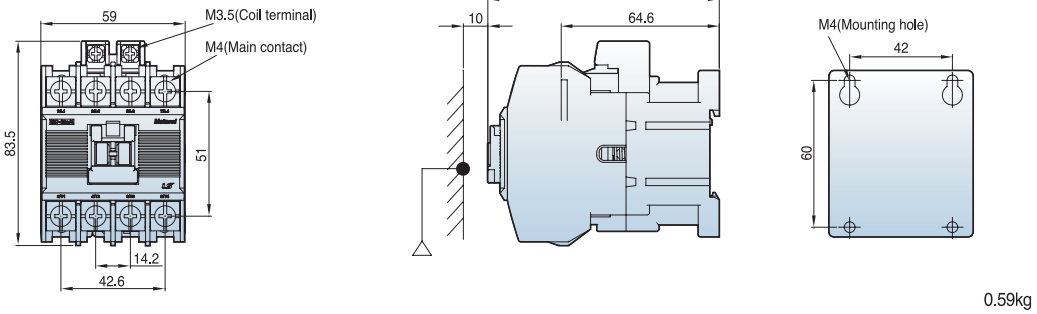



0.5kg

# Contactors (CC32/4 ~ CC85/4)

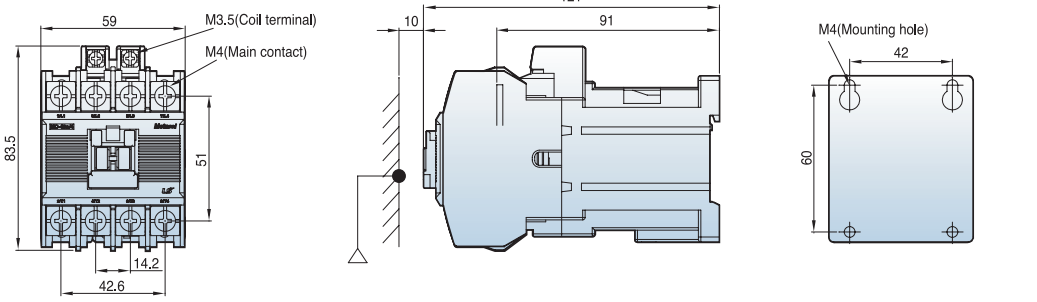
[mm]

**CC32/4 ~ CC40/4 AC coil**



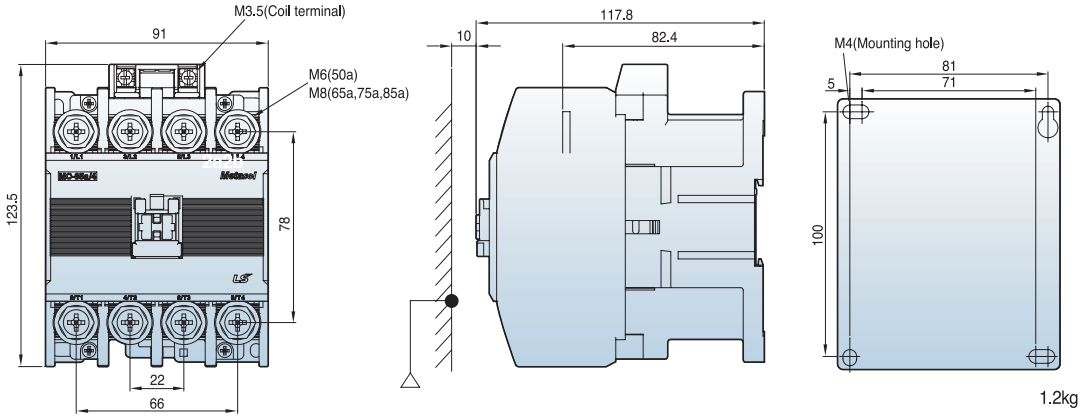

0.59kg

**CC32/4 ~ CC40/4 DC coil**



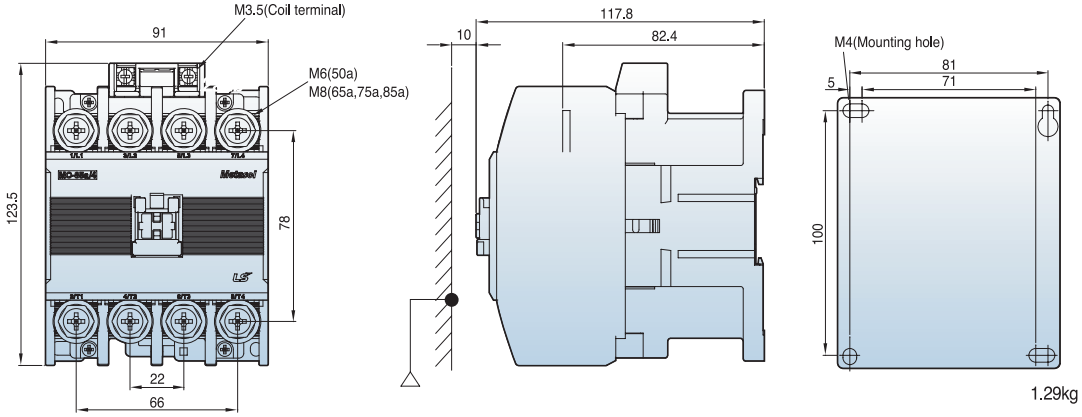

0.7kg

**CC50/4 ~ CC85/4 AC coil**




1.2kg

**CC50/4 ~ CC85/4 DC coil**

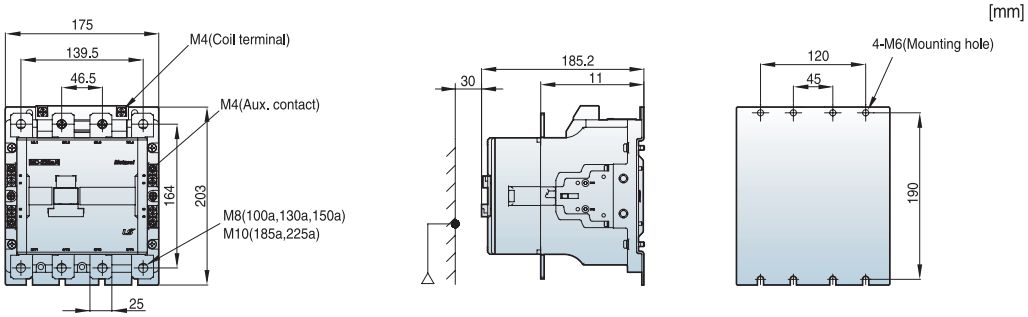



1.29kg

# Contactors (CC100/4 ~ CC800/4)

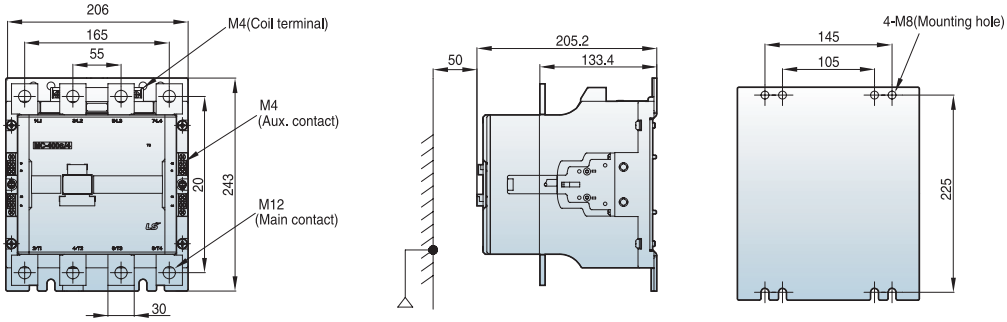
[mm]

**CC100/4 ~ CC225/4**



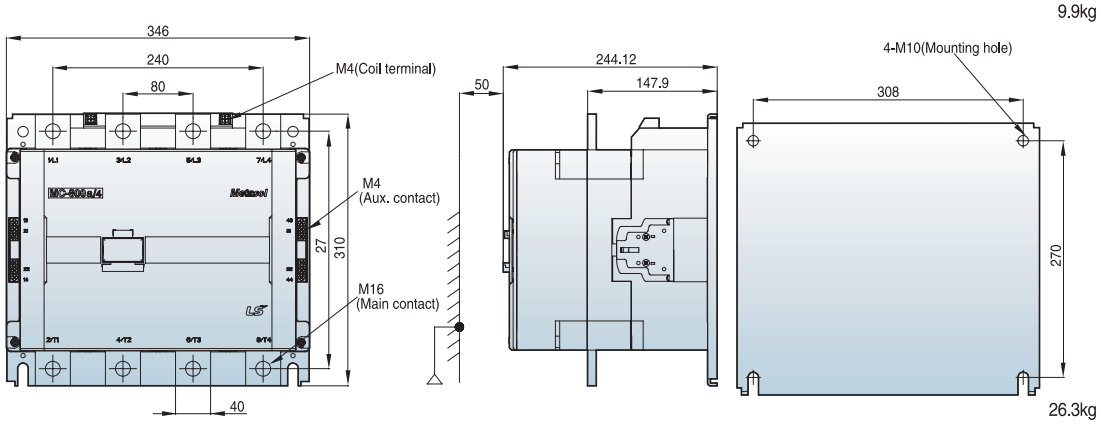

5.6kg

**CC265/4 ~ CC400/4**




9.9kg

**CC500/4 ~ CC800/4**




26.3kg

# Type Numbering System

## Midi-Contactor

| CC | 9 | | S | A | 120 | | |
|---|---|---|---|---|---|---|---|
| Magnetic 3-pole Midi -Contactor | Amperage Size | Type | Terminal Type | Coil Type | Coil Voltage | AC Coil Frequency | Auxiliary Contact s |
| | **9** - 9A<br>**12** - 12A<br>**18** - 18A<br>**22** - 22A<br>**32** - 32A<br>**40** - 40A<br>**50** - 50A<br>**65** - 65A<br>**75** - 75A<br>**85** - 85A<br>**100** - 100A | **BLANK** - 3-pole<br>**/4 - 4-pole** | **S** - Screw<br>**L** - Lug (>50A) | **A** - AC type<br>**D** - DC type | **24** - 24V<br>**120** - 120V<br>&<br>**600** - 600V | **BLANK** - 50/60 Hz<br>**50Hz** - 50Hz only<br>**60Hz** - 60Hz only | **BLANK** - standard arrangement<br>**NOAUX** - no aux. contact (>=32A) |

## Overload

| GT | 32 | | S | 0.16A |
|---|---|---|---|---|
| Bimetallic Midi-Overload | Frame Size | Class | Terminal Type (Must match contactor number) | Setting Ranges (Use upper limit in part ) |
| | **32** - 9, 12, 18A<br>22, 32, 40A<br>**65** - 50, 65A<br>**75** - 75, 85, 100A | **BLANK** class 10<br>**L** - class 20 | **S** - Screw<br>**L** - Lug (≥35A) | 0.1 ~ **0.16A**<br>0.16 ~ **0.25A**<br>0.25 ~ **0.4A**<br>0.4 ~ **0.63A**<br>0.63 ~ **1A**<br>1 ~ **1.6A**<br>1.6 ~ **2.5A**<br>2.5 ~ **4A**<br>4 ~ **6A**<br>5 ~ **8A**<br>6 ~ **9A**<br>7 ~ **10A**<br>9 ~ **13A**<br>12 ~ **18A**<br>16 ~ **22A**<br>18 ~ **25A**<br>22 ~ **32A**<br>24 ~ **36A**<br>28 ~ **40A**<br>34 ~ **50A**<br>45 ~ **65A**<br>54 ~ **75A**<br>63 ~ **85A**<br>70 ~ **95A**<br>80 ~ **100A** |

| CGE | 22 | 3P | 22A |
|---|---|---|---|
| Electronic Midi Overload | Frame Size | Protection | Setting Range (Use upper limit in part ) |
| | **22** - 9, 12, 18, 22A<br>**40** - 32, 40A<br>**80** - 50, 65, 75, 85A | Direct Mount 22 and 40AF<br>**2P** - 2-Pole<br>**3P** - 3-Pole<br>**3PR** -3-pole<br><br>Separate Mount All CGE sizes<br>**2S** - 2-Pole<br>**3S** - 3-Pole<br>**3SR** - 3-Pole<br><br>Tunel Type 22 and 40AF<br>**2T** - 2-Pole<br>**3T** - 3-Pole<br>**3TR** - 3-Pole | **CGE22**<br>0.3 ~ **1.5A**<br>1 ~ **5A**<br>4.4 ~ **22A**<br><br>**CGE40**<br>4 ~ **20A**<br>8 ~ **40A**<br><br>**CGE80**<br>16 ~ **80A** |

*(Setting Range Guide)*

- **GT32**
- **GT65**
- **GT95**

## Optional Accessories

### Auxiliary contact unit

**GUA1** – **11**

| Version | |
|---|---|
| GUA1 | Side mount |
| GUA2 | Front mount(2P) |
| GUA4 | Front mount(4P) |

| Contact composition | |
|---|---|
| 11 | 1NO+1NC |
| 20 | 2NO |
| 02 | 2NC |
| 40 | 4NO |
| 31 | 3NO+1NC |
| 22 | 2NO+2NC |
| 13 | 1NO+3NC |
| 04 | 4NC |

### Surge absorber

**GUS11**

| Composition and voltage | | |
|---|---|---|
| 1 | Varistor+RC | AC/DC 24~48V |
| 2 | Varistor+RC | AC/DC 100~125V |
| 3 | Varistor+RC | AC/DC 200~240V |
| 4 | Varistor+RC | AC 380~440V |
| 5 | Varistor+RC | AC 24~48V |
| 6 | Varistor+RC | AC 100~125V |
| 11 | Varistor | AC 200~240V |
| 12 | Varistor | DC 24~48V |
| 13 | Varistor | DC 100~125V |
| 14 | Varistor | DC 200~220V |
| 22 | RC | AC 100~125V |

Note) See page 52 for details.

### Interlock unit

**GUR02**

| Contact composition | |
|---|---|
| 02 | 2NC |

### Wire kit for Interlocking

**GUW32**

| Frame size | |
|---|---|
| 22 | 22AF |
| 32 | 32AF |
| 63 | 63AF |
| 95 | 95AF |

### Separate mounting unit (For relay)

**GUZ32**

| Frame size | |
|---|---|
| 32 | 32AF |
| 63 | 63AF |
| 95 | 95AF |
| 150 | 150AF |

### Remote reset unit (For relay)

**GTTRR-16**

| Cable length | |
|---|---|
| 16 | 400 |
| 20 | 500 |
| 24 | 600 |