

Table of Specifications

Midi-Contactors



| Frame size | |
|----------------------------------------------------------|-------------------------------|
| Type | Terminal type |
| Number of poles | |
| Rated operational voltage, Ue | |
| Rated insulation voltage, Ui | |
| Rated frequency | |
| Rated impulse withstand voltage, Uimp | |
| Maximum operating rate in operating cycles per hour(AC3) | |
| Durability | Mechanical |
| | Electrical |
| Current and power | AC-1, Thermal current A |
| | AC-3 200/240V kW |
| | 380/440V kW |
| | 500/550V kW |
| | 690V kW |
| UL rating (50/60Hz) | Continuous current A |
| | Single phase 110~120V HP |
| | 220~240V HP |
| | 200~208V HP |
| | Three phase 220~240V HP |
| | 440~480V HP |
| Size and weight | NEMA size |
| | Weight kg |
| Auxiliary(standard) | AC control Size(W × H × D) mm |
| | DC control Size(W × H × D) mm |
| Auxiliary | Side mount |
| | Front mount |



| 22AF | | | |
|--------------------------|------|------|------|
| CC9 | CC12 | CC18 | CC22 |
| Screw Only | | | |
| 3pole | | | |
| 690V | | | |
| 690V | | | |
| 50/60Hz | | | |
| 6kV | | | |
| 1800 operations per hour | | | |
| 15 mil. operations | | | |
| 2.5 mil. operations | | | |
| 25 | 25 | 32 | 40 |
| 2.5 | 3.5 | 4.5 | 5.5 |
| 11 | 13 | 18 | 22 |
| 4 | 5.5 | 7.5 | 11 |
| 9 | 12 | 18 | 22 |
| 4 | 7.5 | 7.5 | 15 |
| 7 | 12 | 13 | 20 |
| 4 | 7.5 | 7.5 | 15 |
| 6 | 9 | 9 | 18 |
| 25 | 25 | 40 | 40 |
| 0.5 | 0.75 | 1 | 2 |
| 1.5 | 2 | 3 | 3 |
| 2 | 3 | 5 | 7.5 |
| 3 | 5 | 7.5 | 10 |
| 5 | 7.5 | 10 | 15 |
| 7.5 | 10 | 15 | 20 |
| 00 | 00 | 0 | 1 |
| 0.34 | | | |
| 45 × 73.5 × 86 | | | |
| 0.51 | | | |
| 45 × 73.5 × 117.7 | | | |
| GUA1, GUA2, GUA4 | | | |
| GUA-1 | | | |
| GUA-2, GUA-4 | | | |

| 40AF | |
|--------------------------|------|
| CC32 | CC40 |
| Screw Only | |
| 3pole | |
| 690V | |
| 1000V | |
| 50/60Hz | |
| 8kV | |
| 1800 operations per hour | |
| 12 mil. operations | |
| 2 mil. operations | |
| 50 | 60 |
| 7.5 | 11 |
| 32 | 40 |
| 15 | 18.5 |
| 32 | 40 |
| 18.5 | 22 |
| 28 | 32 |
| 18.5 | 22 |
| 20 | 23 |
| 50 | 60 |
| 2 | 3 |
| 5 | 7.5 |
| 7.5 | 15 |
| 10 | 15 |
| 20 | 30 |
| 25 | 30 |
| 1 | 1 |
| 0.55 | |
| 69 × 83 × 93 | |
| 0.77 | |
| 69 × 83 × 120 | |
| GUA-1 | |
| GUA-2, GUA-4 | |

Note) Minimum conduct current of Auxiliary contactor is DC 17V 5mA.

GT Type Thermal Overload Relays



| Type | |
|---------------------------------------|--------------------|
| Screws clamp terminals | |
| Rated operational voltage, Ue | |
| Rated insulation voltage, Ui | |
| Rated impulse withstand voltage, Uimp | |
| Trip class | |
| Setting range | |
| Size and weight | Weight kg |
| | Size(W × H × D) mm |



| GT32 | |
|--------------|--|
| ● | |
| 690V | |
| 690V | |
| 6kV | |
| 10A, 20 | |
| 0.1~40A | |
| 0.17 | |
| 45 × 75 × 90 | |

| GT32 | |
|--------------|--|
| ● | |
| 690V | |
| 690V | |
| 6kV | |
| 10A, 20 | |
| 0.1~40A | |
| 0.17 | |
| 45 × 75 × 90 | |

Table of Specifications



| 65AF | |
|--------------------------|------|
| CC50 | CC65 |
| Screw or Lug | |
| 3pole | |
| 690V | |
| 1000V | |
| 50/60Hz | |
| 8kV | |
| 1800 operations per hour | |
| 12 mil. operations | |
| 2 mil. operations | |
| 70 | 100 |
| 15 | 18,5 |
| 55 | 65 |
| 22 | 30 |
| 50 | 65 |
| 30 | 33 |
| 43 | 60 |
| 30 | 33 |
| 28 | 35 |
| 70 | 100 |
| 3 | 5 |
| 10 | 15 |
| 20 | 25 |
| 25 | 30 |
| 40 | 50 |
| 50 | 60 |
| 2 | 2 |
| 1.05 | |
| 79 × 106 × 122 | |
| 1.3 | |
| 79 × 106 × 149 | |

| GUA-1 | |
|--------------|--|
| GUA-2, GUA-4 | |



| GT63 |
|---------------|
| • |
| 690V |
| 690V |
| 6kV |
| 10A, 20 |
| 4~65A |
| 0.31/0.33 |
| 55 × 81 × 100 |



| 100AF | | |
|--------------------------|------|-------|
| CC75 | CC85 | CC100 |
| Screw or Lug | | |
| 3pole | | |
| 690V | | |
| 1000V | | |
| 50/60Hz | | |
| 8kV | | |
| 1800 operations per hour | | |
| 12 mil. operations | | |
| 2 mil. operations | | |
| 110 | 135 | 160 |
| 22 | 25 | 30 |
| 75 | 85 | 105 |
| 37 | 45 | 55 |
| 75 | 85 | 105 |
| 37 | 45 | 55 |
| 64 | 75 | 85 |
| 37 | 45 | 45 |
| 42 | 45 | 65 |
| 110 | 135 | 160 |
| 5 | 7.5 | 10 |
| 15 | 15 | 20 |
| 25 | 30 | 30 |
| 30 | 40 | 40 |
| 50 | 60 | 75 |
| 60 | 75 | 75 |
| 2 | 3 | 3 |
| 1.93 | | |
| 94 × 140 × 137 | | |
| 2.8 | | |
| 94 × 140 × 174 | | |

| GUA-1 | | |
|--------------|--|--|
| GUA-2, GUA-4 | | |



| GT95 |
|---------------|
| • |
| 690V |
| 690V |
| 6kV |
| 10A, 20 |
| 7~100A |
| 0.48/0.5 |
| 70 × 97 × 110 |

Table of Specifications



| 400AF | | |
|--------------------------|--------|---------------------|
| CC265* | CC330* | CC400* |
| Screw Only | | |
| 3pole | | |
| 690V | | |
| 1000V | | |
| 50/60Hz | | |
| 8kV | | |
| 1200 operations per hour | | |
| 5 mil. operations | | 2.5 mil. operations |
| 1 mil. operations | | 0.5 mil. operations |
| 300 | 350 | 450 |
| 80 | 90 | 125 |
| 265 | 330 | 400 |
| 147 | 160 | 200 |
| 265 | 330 | 400 |
| 147 | 160 | 225 |
| 225 | 280 | 350 |
| 160 | 200 | 250 |
| 185 | 225 | 300 |
| 300 | 350 | 450 |
| - | - | - |
| - | - | - |
| 75 | 100 | 125 |
| 100 | 125 | 150 |
| 200 | 250 | 300 |
| 200 | 250 | 300 |
| 5 | 5 | 5 |

9.2
163 × 243 × 198

| 800AF | | |
|--------------------------|--------|---------------------|
| CC500* | CC630* | CC800* |
| Screw Only | | |
| 3pole | | |
| 690V | | |
| 1000V | | |
| 50/60Hz | | |
| 8kV | | |
| 1200 operations per hour | | |
| 2.5 mil. operations | | 0.5 mil. operations |
| 580 | 660 | 900 |
| 147 | 190 | 220 |
| 500 | 630 | 800 |
| 265 | 330 | 440 |
| 500 | 630 | 800 |
| 265 | 330 | 500 |
| 400 | 500 | 720 |
| 300 | 400 | 500 |
| 380 | 420 | 630 |
| 580 | 660 | 900 |
| - | - | - |
| - | - | - |
| 150 | 200 | 200 |
| 200 | 250 | 300 |
| 400 | 500 | 600 |
| 400 | 500 | 600 |
| 6 | 6 | 7 |

22.4
285 × 312 × 242

| 2a2b |
|------|
| - |
| - |



| 2a2b |
|------|
| - |
| - |



| GT400 |
|---------|
| ● |
| 690V |
| 690V |
| 6kV |
| 10A, 20 |
| 85~400A |
| 2.6 |

151 × 171 × 198

| GT800 |
|----------|
| ● |
| 690V |
| 690V |
| 6kV |
| 10A, 20 |
| 200~800A |
| 11.5 |

360 × 530 × 212

Type Numbering System

Midi-Contactor

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

Overload

| | | | | |
|-------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GT Bimetallic Midi-Overload | 32 Frame Size | BLANK Class class 10 L - class 20 | S Terminal Type (Must match contactor number) S - Screw L - Lug (>35A) | 0.16A Setting Ranges (Use upper limit in part) |
| | 32 - 9, 12, 18A 22, 32, 40A 65 - 50, 65A 75 - 75, 85, 100A | | | 0.1 ~ 0.16A 0.16 ~ 0.25A 0.25 ~ 0.4A 0.4 ~ 0.63A 0.63 ~ 1A 1 ~ 1.6A 1.6 ~ 2.5A 2.5 ~ 4A 4 ~ 6A 5 ~ 8A 6 ~ 9A 7 ~ 10A 9 ~ 13A 12 ~ 18A 16 ~ 22A 18 ~ 25A 22 ~ 32A 24 ~ 36A 28 ~ 40A 34 ~ 50A 45 ~ 65A 54 ~ 75A 63 ~ 85A 70 ~ 95A 80 ~ 100A (Setting Range Guide) |
| CGE Electronic Midi Overload | 22 Frame Size | 3P Protection Direct Mount 22 and 40AF 2P - 2-Pole 3P - 3-Pole 3PR - 3-pole Separate Mount All CGE sizes 2S - 2-Pole 3S - 3-Pole 3SR - 3-Pole | 22A Setting Range (Use upper limit in part) CGE22 0.3 ~ 1.5A 1 ~ 5A 4.4 ~ 22A CGE40 4 ~ 20A 8 ~ 40A CGE80 16 ~ 80A | 22 - 9, 12, 18, 22A 40 - 32, 40A 80 - 50, 65, 75, 85A |
| | | | Tunnel Type 22 and 40AF 2T - 2-Pole 3T - 3-Pole 3TR - 3-Pole | GT32 GT65 GT95 |

Optional Accessories

Auxiliary contact unit



| Version | Mounting | Contact composition |
|---------|-----------------|---------------------|
| GUA1 | Side mount | 11 1NO+1NC |
| GUA2 | Front mount(2P) | 20 2NO |
| GUA4 | Front mount(4P) | 02 2NC |
| | | 40 4NO |
| | | 31 3NO+1NC |
| | | 22 2NO+2NC |
| | | 13 1NO+3NC |
| 04 4NC | | |

Surge absorber



| 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



Contact composition

| | |
|----|-----|
| 02 | 2NC |
|----|-----|

Wire kit for Interlocking



Frame size

| | |
|----|------|
| 22 | 22AF |
| 32 | 32AF |
| 63 | 63AF |
| 95 | 95AF |

Separate mounting unit (For relay)



Frame size

| | |
|-----|-------|
| 32 | 32AF |
| 63 | 63AF |
| 95 | 95AF |
| 150 | 150AF |

Remote reset unit (For relay)



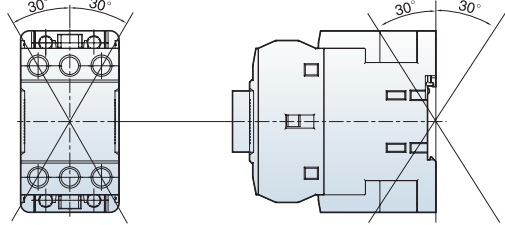
Cable length

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

Environment / Connections



Environment

| | |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Standards | IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, K60947 |
| Certifications | CE, UL |
| Rated insulation voltage (Ui) | 1000V |
| Rated impulse withstand voltage (Uimp) | 8kV |
| Degree of protection | IP20 (Conforming to IEC60529) |
| Ambient air temperature | Storage: -50° C ~ +80° C Operation: -5° C ~ +60° C |
| Operating altitude | 3000m (8900ft) |
| Operating positions |  |
| Shock resistance (1/2 sine wave =11ms) | Opened: 8G Closed: 10G |
| Vibration resistance (Conforming to IEC68-2-6) (5...300 Hz) | Opened: 2G Closed: 4G |
| Flame resistance | Conforming to UL 94: Vo Conforming to IEC 695-2-1: 960° C |

Connections

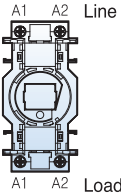
| Frame | Wire type | Main Terminal Size | Wire types | | | | | | Torque | | |
|-----------|-----------|--------------------|--------------------------|---------------------|---------------------|---------------------|---------------|-----|---------|---------|------|
| | | | (AWG / mm ²) | | | | | | mm(max) | [lb-in] | [Nm] |
| CC9 | | M4 | | | | | | 9.6 | 20 | 2.25 | |
| CC12 | | | 18~10 / 1~6 | 18~10 / 1~6 | 18~10 / 1~6 | 16~10 / 1~6 | 16~10 / 1~6 | | | | |
| CC18 | | | 18~10 / 1~6 | 16~8 / 1,5~10 | 16~8 / 1,5~10 | 16~8 / 1,5~10 | 16~8 / 1,5~10 | | | | |
| CC22 | | M5 | 18~10 / 1~6 | 14~8 / 2,5~10 | 14~8 / 2,5~10 | 14~8 / 2,5~10 | 12.8 | 20 | 2.25 | | |
| CC32 | | | 18~10 / 1~6 | 12~8 / 2,5~10 | 12~8 / 2,5~10 | 12~8 / 2,5~10 | | | | | |
| CC40 | | M6 | 18~10 / 1~6 | 8~6 / 10~16 | 8~6 / 10~16 | 8~6 / 10~16 | 14 | 35 | 4 | | |
| CC50 | | | - | 10~4 / 6~25 | 10~4 / 6~25 | 10~4 / 6~25 | | | | | |
| CC65 | | | - | 8~3 / 10~35 | 8~3 / 10~35 | 8~3 / 10~35 | | | | | |
| CC75 | | M8 | - | 8~2 / 10~35 | 8~2 / 10~35 | 8~2 / 10~35 | 17 | 45 | 5.1 | | |
| CC85 | | | - | 8~1/0 / 10~50 | 8~1/0 / 10~50 | 8~1/0 / 10~50 | | | | | |
| CC100 | | M8 | - | 8~2/0 / 10~70 | 8~2/0 / 10~70 | 8~2/0 / 10~70 | 24.5 | 80 | 9.1 | | |
| CC130 | | | - | 3~2/0 / 35~70 | 3~2/0 / 35~70 | 3~2/0 / 35~70 | | | | | |
| CC150 | | M8 | - | 3~4/0 / 35~95 | 3~4/0 / 35~95 | 3~4/0 / 35~95 | 24.5 | 80 | 9.1 | | |
| CC150 | | | - | 3~4/0 / 35~95 | 3~4/0 / 35~95 | 3~4/0 / 35~95 | | | | | |
| CC9~150 | | M4 | 20~14 / 0,5~2,5 | 18~12 / 0,75~2,5 | 18~12 / 0,75~2,5 | 18~12 / 0,75~2,5 | 7.6 | 15 | 1.75 | | |
| CC185 | | | - | 1~4/0 / 50~95 | 1~4/0 / 50~95 | 1~4/0 / 50~95 | | | | | |
| CC225 | | M10 | - | 1/0~300 / 50~150 | 1/0~300 / 50~150 | 1/0~300 / 50~150 | 25 | 130 | 14.7 | | |
| CC265 | | | - | 3/0~500 / 95~240 | 3/0~500 / 95~240 | 3/0~500 / 95~240 | | | | | |
| CC330 | | M12 | - | 4/0~500 / 95~240 | 4/0~500 / 95~240 | 4/0~500 / 95~240 | 30 | 200 | 22.6 | | |
| CC400 | | | - | 350~700 / 185~185x2 | 350~700 / 185~185x2 | 350~700 / 185~185x2 | | | | | |
| CC500 | | M16 | - | 350~800 / 185~240x2 | 350~800 / 185~240x2 | 350~800 / 185~240x2 | 40 | 500 | 26.5 | | |
| CC630 | | | - | 600~2000 | - | - | | | | | |
| CC800 | | M16 | - | 1700~Busbar | - | - | 40 | 500 | 26.5 | | |
| CC185~800 | | | - | 16~10 / 2,5~5,5 | 16~10 / 2,5~5,5 | 16~10 / 2,5~5,5 | | | | | |

a data sheet and specify products, visit www.CarloGavazziOnline.com

Control Coil Characteristics



| Frame size | | 22AF | 40AF | 65AF | 100AF | 150AF |
|--------------------------|----------------------|--------------------------------------------------------------------------------|-----------|-----------|-------------|------------------|
| Type | | CC9 | CC32 | CC50 | CC75 | CC130 |
| | | CC12 | CC40 | CC65 | CC85 | CC150 |
| | | CC12 | | | CC100 | |
| | | CC22 | | | | |
| AC coil | | | | | | |
| Control voltage | [Uc] | 24, 32, 36, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 415, 440, 500, 550V | | | | 24, 48, 110, |
| | 50Hz [V] | 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 440, 480, 600V | | | | 220, 300, |
| | 60Hz [V] | 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V | | | | 400, 500 |
| Voltage limit | [Uc] | | | | | |
| | Pick-up | 85 ~110% (50Hz) | | | | |
| | Drop-out | 85 ~110% (60Hz) | | | | |
| Coil consumption at 20°C | | 30 ~ 60% | | | | |
| | AC 220V Inrush [VA] | 58/56 | 53/50 | 110/104 | 229/216 | 108/104 |
| | 50/60Hz Holding [VA] | 9.0/6.0 | 12.0/9.0 | 13.0/10.0 | 17.0/13.0 | 18.0/21.0 |
| Heat dissipation | [W] | 2.1/1.5 | 2.7/2.2 | 2.8/2.4 | 5.4/4.7 | 2.7/3.6 |
| Operating time | | | | | | |
| | Closing [ms] | 12 ... 22 | 12 ... 22 | 12 ... 22 | 15 ... 30 | 20 ... 40 |
| | Opening [ms] | 4 ... 19 | 4 ... 19 | 4 ... 19 | 10 ... 30 | 60 ... 70 |
| DC coil | | | | | | |
| Control voltage | [Uc] | 12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250 | | | | 24, 48, 110, 220 |
| Voltage limit | [Uc] | | | | | |
| | Pick-up | 70 ~ 110% | | | | |
| | Drop-out | 10 ~ 30% | | | | |
| Coil consumption at 20°C | | | | | | |
| | DC 110V Inrush [W] | 9 | 7 | 9 | 18 | 213 |
| | Holding [W] | 9 | 7 | 9 | 18 | 7.5 |
| Time constant (L/R) | [ms] | 28 | 28 | 65 | 75 | |
| Operating time | | | | | | |
| | Closing [ms] | 35 ... 50 | 50 ... 65 | 50 ... 65 | 100 ... 120 | 70 ... 80 |
| | Opening [ms] | 4 ... 19 | 4 ... 19 | 4 ... 19 | 10 ... 25 | 60 ... 70 |



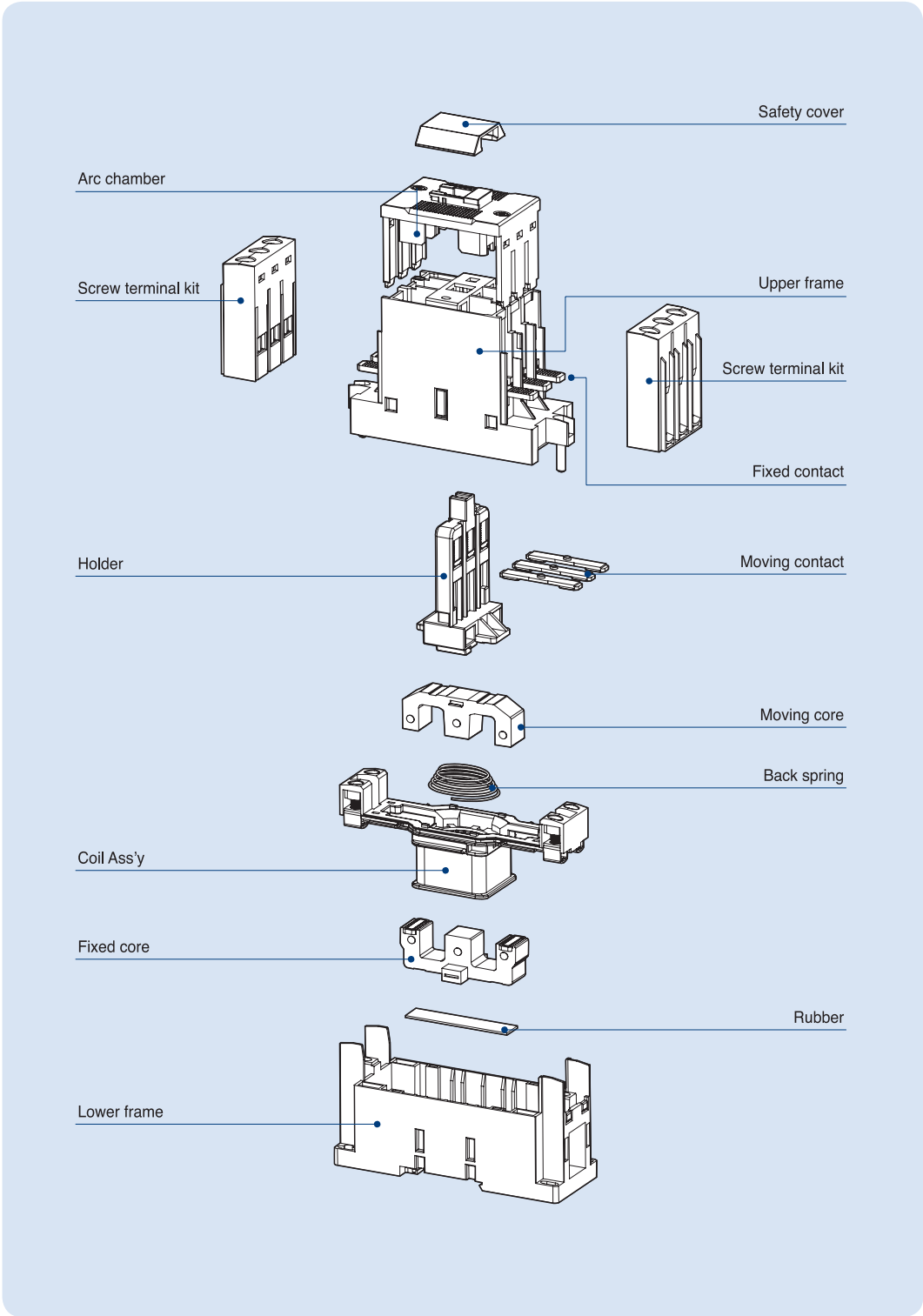
Note) A1(A2) in line side is internally connected to A1(A2) in load side.

Control Coil Characteristics



| Frame size | 225AF | 400AF | 800AF |
|--------------------------|------------------------------|----------------------------------------------|----------------------------------------------|
| Type | CC185 CC225 | CC265 CC330 CC400 | CC500 CC630 CC800 |
| AC/DC common coil | | | |
| Control voltage [Uc] | | | |
| AC/DC | 24/24 | - | - |
| AC/DC | 48/48 | - | 100/100 |
| AC/DC | 100~240/100~220 | 100~240/100~220 | 200/200 |
| AC | 300 | 300 | 300 |
| AC | 400 | 400 | 400 |
| AC | 500 | 500 | 500 |
| Voltage limit [Uc] | | | |
| Pick-up | | 86~110% | |
| Drop-out | | 30~60% | |
| Coil consumption at 20°C | | | |
| AC 220V Inrush [VA] | 380 | 571 | 1000 |
| 50/60Hz Holding [VA] | 11.6 | 14 | 29 |
| Heat dissipation [W] | 4.7 | 5 | 7.8 |
| Operating time | | | |
| Closing [ms] | 70 | 55 | 75 |
| Opening [ms] | 70 | 55 | 75 |

Internal Structure



Contactors (65AF)

Description

- 3-pole(NO) main contact
- Finger proof design
- DIN rail or screw mountable
- AC or DC control in different physical size
- Front/side mountable accessories available
- Direct mountable overload relay available Rating
- 2NO2NC Auxiliary contacts built-in as standard



CC65

Rating

| Contactor type | | | CC50 | | CC65 | | |
|-----------------------------------|-----------------|----------------------------------|-----------------------|----|-------|-----|----|
| | | | kW | A | kW | A | |
| AC duty | AC3 | 200/240V | 15 | 55 | 18.5 | 65 | |
| | | 380/440V | 22 | 50 | 30 | 65 | |
| | | 500/550V | 30 | 43 | 33 | 60 | |
| | | 690V | 30 | 28 | 33 | 35 | |
| | AC4 | 200/240V | 7.5 | 35 | 11 | 50 | |
| | | 380/440V | 15 | 32 | 22 | 47 | |
| | AC1 | | - | 70 | - | 100 | |
| DC1 duty (L/R=1ms) | 2-pole | 24V | - | 70 | - | 90 | |
| | | in series | 48V | - | 70 | - | 90 |
| | | 110V | - | 50 | - | 75 | |
| | 3-pole | 24V | - | 70 | - | 90 | |
| | | in series | 48V | - | 70 | - | 90 |
| | | 110V | - | 60 | - | 80 | |
| DC2, 4 duty (L/R=15ms) | 2-pole | 24V | - | 45 | - | 55 | |
| | | in series | 48V | - | 40 | - | 45 |
| | | 110V | - | 25 | - | 38 | |
| | 3-pole | 24V | - | 55 | - | 75 | |
| | | in series | 48V | - | 50 | - | 65 |
| | | 110V | - | 35 | - | 55 | |
| Directly mountable Overload relay | | | GT63 | | | | |
| Conductor size (solid, stranded) | AWG | | 10~4 | | 8~3 | | |
| | mm ² | (the max. number of conducts: 2) | 6~25 | | 10~35 | | |
| Conductor type | | | 65/75 °C Cu-wire only | | | | |



Coil Voltage

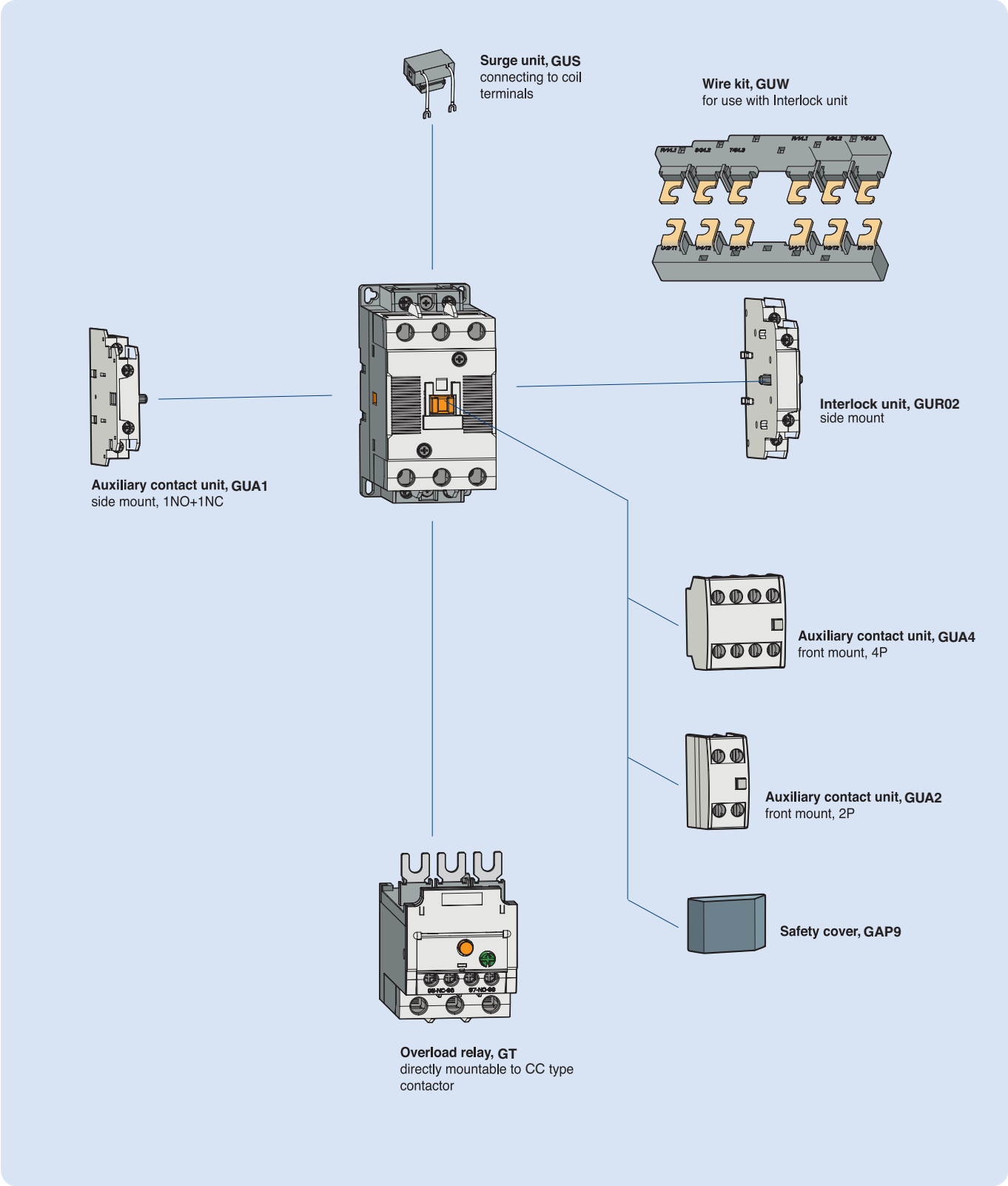
| | | |
|----|---------|---------------------------------------------------------------------|
| AC | 50Hz | 24, 32, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 500, 550V |
| | 60Hz | 24, 48, 110, 110, 12, 200, 208, 220, 230, 240, 277, 380, 480, 600V |
| | 50/60Hz | 24, 48, 100, 110, 120, 200, 220, 230, 240, 380, 415, 440, 500, 550V |
| DC | DC | 12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V |

Certification

- CE(IEC)
- UL508

Contactors (65AF)

Accessories



Specifications are subject to change without notice.

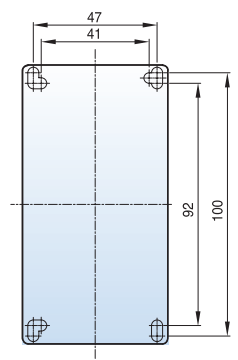
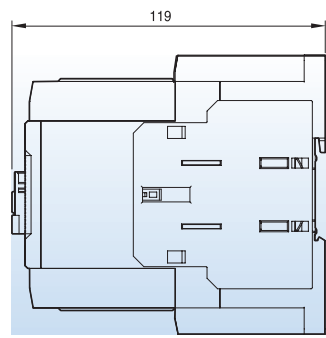
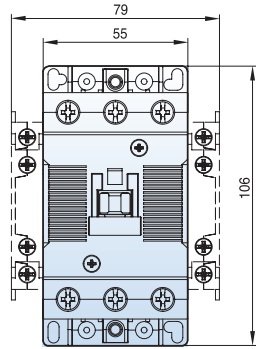
Rated Short Breaking Capacity of Installation

| Manual Motor Starter | Adjustment Range (A) | Manual Motor Controller Group Installation | | | Applied Contactor (GC Series) | Applied Contactor (CC Series) |
|------------------------------------------------------|----------------------|--------------------------------------------|-----------|-----------|-------------------------------|-------------------------------|
| | | Short Circuit Rating(KAIC) | | | | |
| | | 240V | 480Y/277V | 600Y/347V | | |
| 32AF Rotary operation, standard interruption | | | | | | |
| GMS-32H-0.16 | 0.1~0.16 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-0.25 | 0.16~0.25 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-0.4 | 0.25~0.4 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-0.63 | 0.4~0.63 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-1 | 0.63~1 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-1.6 | 1~1.6 | 100 | 65 | 25 | GC9 | CC9 |
| GMS-32H-2.5 | 1.6~2.5 | 100 | 65 | 25 | GC12 | CC12 |
| GMS-32H-4 | 2.5~4 | 100 | 65 | 25 | GC12 | CC12 |
| GMS-32H-6 | 4~6 | 100 | 65 | 25 | GC18 | CC18 |
| GMS-32H-8 | 5~8 | 100 | 65 | 10 | GC18 | CC18 |
| GMS-32H-10 | 6~10 | 100 | 65 | 10 | GC18 | CC18 |
| GMS-32H-13 | 9~13 | 100 | 65 | 10 | GC25 | CC22 |
| GMS-32H-17 | 11~17 | 100 | 30 | 10 | GC25 | CC22 |
| GMS-32H-22 | 14~22 | 100 | 30 | 10 | GC25 | CC22 |
| GMS-32H-26 | 18~26 | 100 | 30 | 10 | GC32 | CC32 |
| GMS-32H-32 | 22~32 | 100 | 30 | 10 | GC32 | CC32 |
| 63AF Rotary operation, standard interruption | | | | | | |
| GMS-63S-10 | 6~10 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63S-13 | 9~13 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63S-17 | 11~17 | 100 | 40 | 10 | GC35 | CC50 |
| GMS-63S-22 | 14~22 | 100 | 40 | 10 | GC35 | CC50 |
| GMS-63S-26 | 18~26 | 100 | 40 | 10 | GC35 | CC50 |
| GMS-63S-32 | 22~32 | 100 | 40 | 10 | GC35 | CC50 |
| GMS-63S-40 | 28~40 | 100 | 40 | 10 | GC40 | CC50 |
| GMS-63S-50 | 34~50 | 100 | 40 | 10 | GC50 | CC50 |
| GMS-63S-63 | 45~63 | 100 | 40 | 10 | GC63 | CC65 |
| GMS-63S-65 | 47~65 | 100 | 40 | 10 | — | CC65 |
| 63AF Rotary operation, High interruption | | | | | | |
| GMS-63H-10 | 6~10 | 100 | 65 | 25 | GC35 | CC50 |
| GMS-63H-13 | 9~13 | 100 | 65 | 25 | GC35 | CC50 |
| GMS-63H-17 | 11~17 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63H-22 | 14~22 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63H-26 | 18~26 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63H-32 | 22~32 | 100 | 50 | 10 | GC35 | CC50 |
| GMS-63H-40 | 28~40 | 100 | 50 | 10 | GC40 | CC50 |
| GMS-63H-50 | 34~50 | 100 | 50 | 10 | GC50 | CC50 |
| GMS-63H-63 | 45~63 | 100 | 50 | 10 | GC63 | CC65 |
| GMS-63H-65 | 47~65 | 100 | 40 | 10 | — | CC65 |
| 100AF Rotary operation, Standard interruption | | | | | | |
| GMS-100S-17 | 11~17 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-22 | 14~22 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-26 | 18~26 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-32 | 22~32 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-40 | 28~40 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-50 | 34~50 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100S-63 | 45~63 | 100 | 40 | 10 | GC65 | CC75 |
| GMS-100S-75 | 55~75 | 100 | 40 | 10 | GC75 | CC75 |
| GMS-100S-90 | 70~90 | 100 | 40 | 10 | GC85 | CC85 |
| GMS-100S-100 | 80~100 | 100 | 40 | 10 | GC95 | CC100 |
| 100AF Rotary operation, High interruption | | | | | | |
| GMS-100H-17 | 11~17 | 100 | 65 | 25 | GC65 | CC75 |
| GMS-100H-22 | 14~22 | 100 | 65 | 20 | GC65 | CC75 |
| GMS-100H-26 | 18~26 | 100 | 65 | 20 | GC65 | CC75 |
| GMS-100H-32 | 22~32 | 100 | 65 | 20 | GC65 | CC75 |
| GMS-100H-40 | 28~40 | 100 | 65 | 20 | GC65 | CC75 |
| GMS-100H-50 | 34~50 | 100 | 65 | 20 | GC65 | CC75 |
| GMS-100H-63 | 45~63 | 100 | 50 | 10 | GC65 | CC75 |
| GMS-100H-75 | 55~75 | 100 | 50 | 10 | GC75 | CC75 |
| GMS-100H-90 | 70~90 | 100 | 50 | 10 | GC85 | CC85 |
| GMS-100H-100 | 80~100 | 100 | 50 | 10 | GC95 | CC100 |

Specifications are subject to change without notice.

Contactors (65AF)

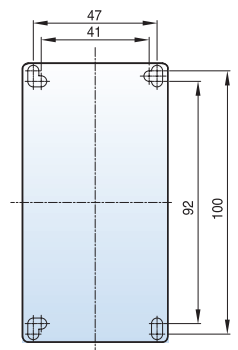
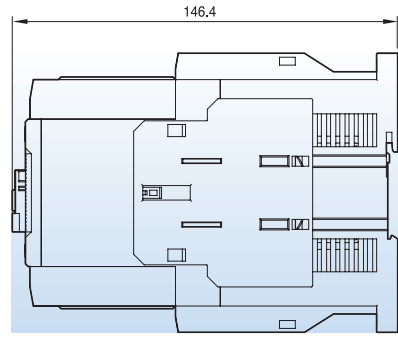
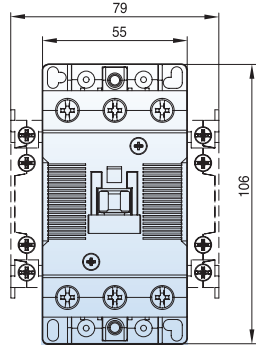
CC50 ~ CC65
AC coil
2NO2NC aux



[mm]

1kg

CC50 ~ CC65
DC coil
2NO2NC aux

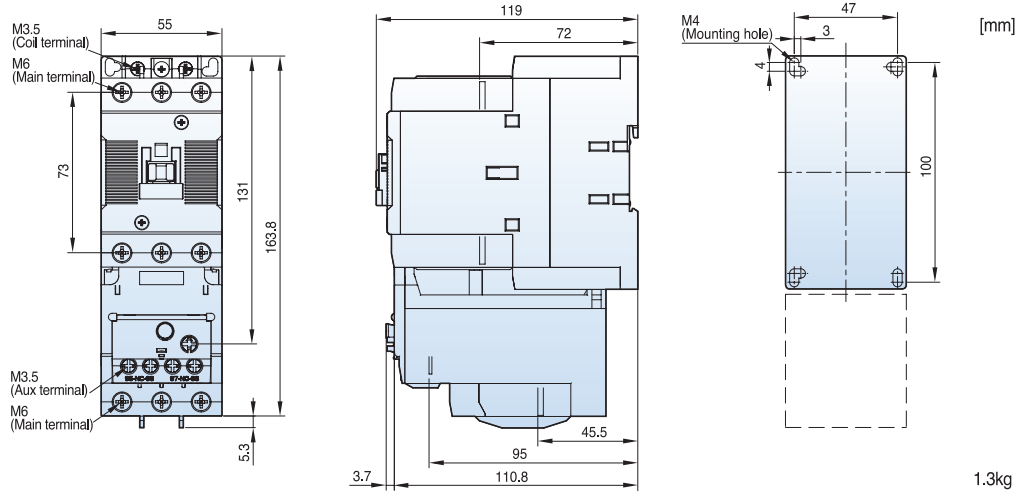


1.3kg

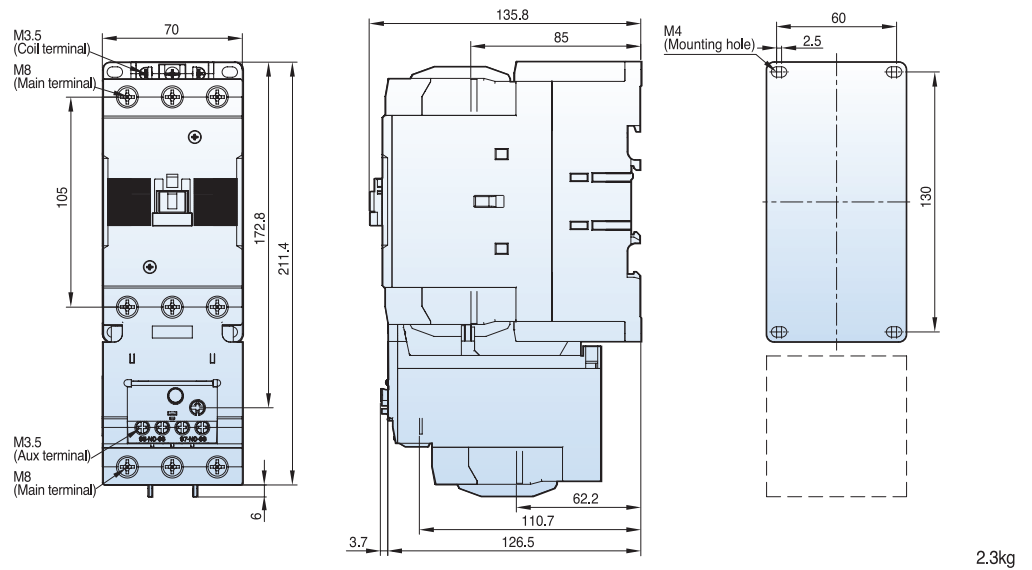


Motor Starters (65AF ~ 150AF)

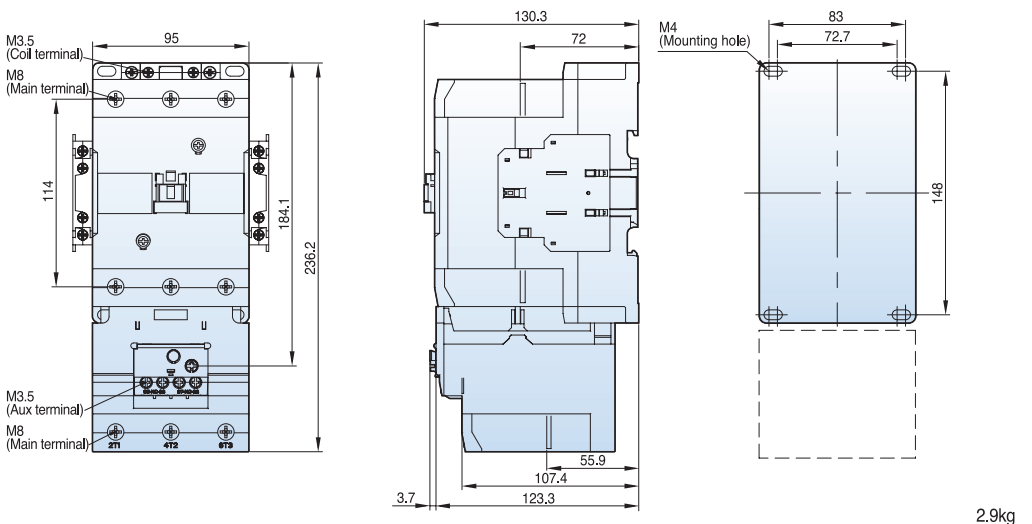
**CC50 ~ CC65
with GT63
shown with no
aux contact**



**CC75 ~ CC100
with GT95
shown with no
aux contact**



**CC130 ~ CC150
with GT150
shown with no
aux contact**



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