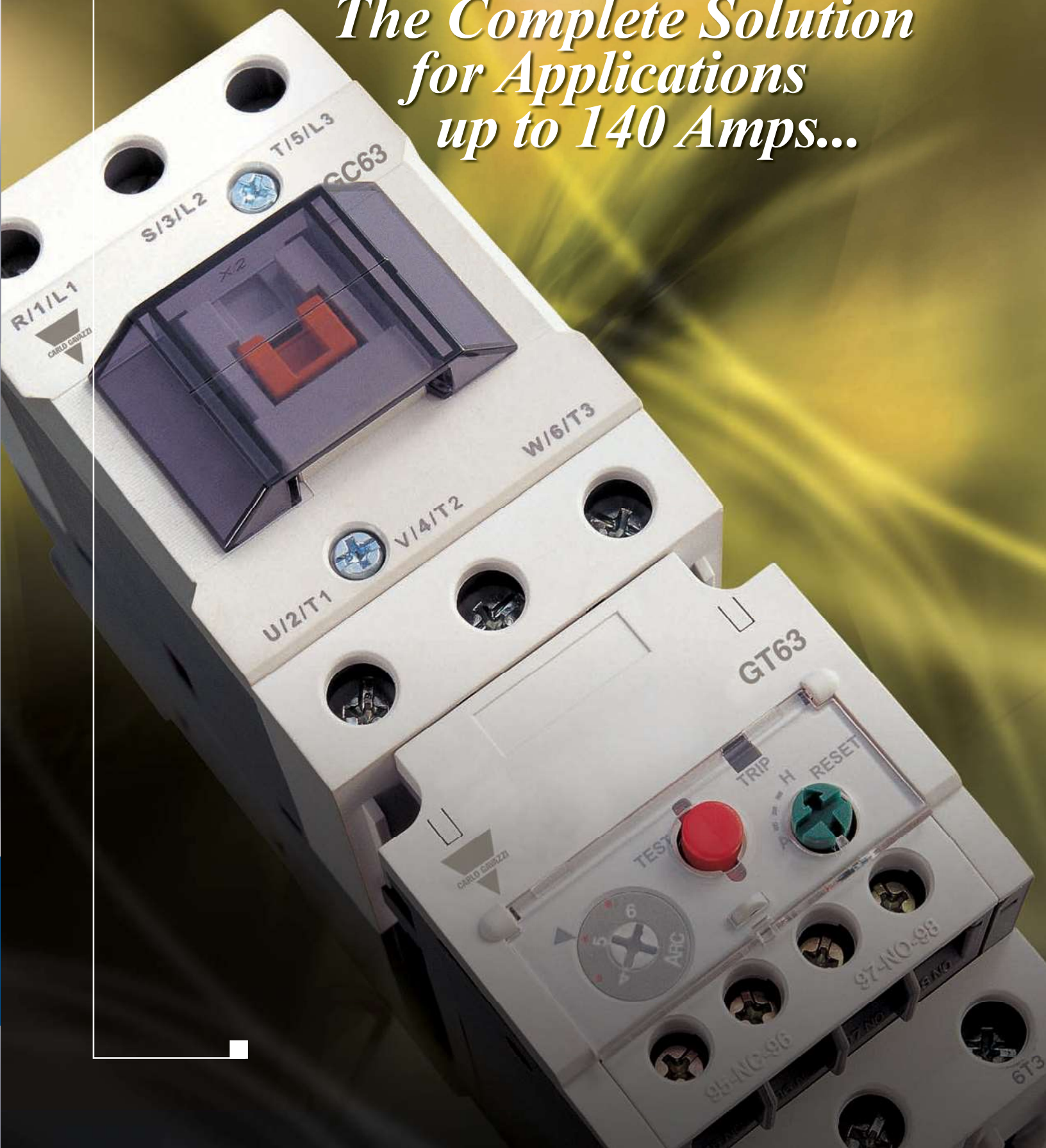


# *Midi-Contactors and Overloads*

*The Complete Solution  
for Applications  
up to 140 Amps...*



# Midi-Contactors and Overloads



## General

- Four frame sizes
- Motor ratings of each frame size:  
Up to 10, 25, 50 or 75HP
- Resistive ratings of each frame size:  
Up to 25, 50, 75 or 140A
- AC or DC coil voltage
- Two connection types:  
Screw terminal connections are available on all frame sizes  
Lug terminal connections (line/load) are available on 63 and 95 amp frame sizes

## Standards

- cUL, CSA with special elevator ratings, CE and RoHS

## Convenience

- Captive screw terminals
- Four terminals for coil connection
- Easily interchangeable coils (in the event another coil voltage is required)
- Each contactor comes standard with a minimum of one NO or NC auxiliary contact. (See pages 10 and 11 for more details, as some of the larger contactors come standard with more auxiliary contacts)
- DIN rail or back panel mounting

## Accessories

- Bimetallic overloads
- Manual motor starters
- Side or top mounted auxiliary contact(s)
- Interlock unit
- Reversing interlock kit
- Surge absorber unit
- Separate mounting unit for overloads
- Remote reset unit for overloads
- Direct adaptor bridge for manual motor starter and midi-contactor
- Mounting unit for manual motor starter, direct adaptor bridge and midi-contactor
- Capacitor unit



# Ordering Guide

## Midi-Contactor

| GC   | 9  |  | S                           | A                | 120  |  | GT                       | 12  | S  | 0.16A  |
|--|--|--|-----------------------------|------------------|--|--|--------------------------|---|--|--|
| Magnetic 3-pole Midi-Contactor   | Amperage Size  | Application  | Terminal Type               | Coil Type        | Coil Voltage   | Built-in Auxiliary Contact Combination: Only on 9 & 12A Midi-Contactors  | Bimetallic Midi-Overload | Frame Size  | Terminal Type (Must match contactor terminal type) | Setting Ranges (Use upper limit in part number)  |
|  | 9 - 9A<br>12 - 12A<br>18 - 18A<br>25 - 25A<br>32 - 32A<br>35 - 35A<br>40 - 40A<br>50 - 50A<br>63 - 63A<br>65 - 65A<br>75 - 75A<br>85 - 85A<br>95 - 95A | BLANK - Non-Reversing<br>R - Reversing<br>C - Capacitive | S - Screw<br>L - Lug (≥35A) | A - AC<br>D - DC | 24 - 24V<br>120 - 120V<br>}<br>480 - 480V<br><br>See data sheet for more details | BLANK - 1NO<br>01 - 1NC<br><br>The following sizes come standard with the auxiliary outputs listed below:<br><br><u>18, 25 &amp; 32A:</u><br>1NO & 1NC<br><br>35, 40, 50, 63, 65, 75, 85 & 95A:<br>2NO & 2NC<br><br>See pages 10 & 11 for more details |                          | 12 - 9 & 12A<br>32 - 18, 25 & 32A<br><br>63 - 35, 40, 50 & 63A<br><br>95 - 65, 75, 85 & 95A | 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 |
| (Setting Range Guide)  |  |  |                             |                  |  |  |                          |   |  |  |
| <span style="background-color: #00A08A; color: white; padding: 2px;">GT12</span><br><span style="background-color: #008080; color: white; padding: 2px;">GT32</span><br><span style="background-color: #FFD700; color: black; padding: 2px;">GT63</span><br><span style="background-color: #FFA500; color: black; padding: 2px;">GT95</span> |  |  |                             |                  |  |  |                          |   |  |  |

# Midi-Contactors and Overloads



## Frame Size Type

### Available Output Terminal Type

| UL & CSA Ratings | Continuous Current Ith |
|------------------|------------------------|
|                  | Motor AC Single Phase  |
|                  | Motor AC Three Phase   |
|                  | 115V                   |
|                  | 230V                   |
|                  | 230V                   |
|                  | 460V                   |
|                  | 575V                   |

### Rated Operational Current 440VAC Motor Load

| CSA Elevator Ratings | Three Phase  | 200~600V    |
|----------------------|--------------|-------------|
|                      | AC1          | 690 VAC max |
|                      | Motor AC AC3 | 200~240V    |
|                      |              | 380~440V    |
|                      |              | 690V        |

| Coil Voltages | AC Coil | VAC 60 Hz    |
|---------------|---------|--------------|
|               |         | VAC 50 Hz    |
|               |         | VAC 50/60 Hz |
|               | DC Coil | VDC          |

| Basic Dimensions | (W x H x D) mm | AC coil |
|------------------|----------------|---------|
|                  |                | DC Coil |

| Accessories | Auxiliary Contacts | Standard                        |
|-------------|--------------------|---------------------------------|
|             |                    | Optional                        |
|             |                    | Mechanical/Electrical Interlock |

### Power Connectors for Reversing Contactors

|                  |             |
|------------------|-------------|
| Coil Surge Units | Varistor    |
|                  | RC+Varistor |
|                  | RC          |

| 12AF  |            | 32AF                                     |            |             |
|---|------------|--|------------|-------------|
| GC9   | GC12       | GC18                                     | GC25       | GC32        |
| 3-Pole  |            | 3-Pole                                   |            |             |
| Screw Clamp Only  |            | Screw Clamp Only                         |            |             |
| 25A   | 25A        | 40A                                      | 40A        | 50A         |
| 0.5HP   | 0.75HP     | 1HP                                      | 2HP        | 2HP         |
| 1.5HP   | 2HP        | 3HP                                      | 3HP        | 5HP         |
| 3HP   | 5HP        | 7.5HP                                    | 10HP       | 10HP        |
| 5HP   | 7.5HP      | 10HP                                     | 15HP       | 20HP        |
| 7.5HP   | 10HP       | 15HP                                     | 20HP       | 25HP        |
| 9A  | 12A        | 18A                                      | 25A        | 32A         |
| Available in 2009   |            | 20A                                      | 20A        | 25A         |
| 25A   | 25A        | 40A                                      | 40A        | 50A         |
| 2.5 kW 11A  | 3.5 kW 13A | 4.5 kW 18A                               | 5.5 kW 25A | 7.5 kW 32A  |
| 4 kW 9A   | 5.5 kW 12A | 7.5 kW 18A                               | 11 kW 25A  | 15 kW 32A   |
| 4 kW 5A   | 7.5 kW 9A  | 7.5 kW 9A                                | 15 kW 18A  | 18.5 kW 20A |
| 24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600                |            |  |            |             |
| 24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550            |            |  |            |             |
| 24, 48, 120, 220, 230, 240, 380, 400, 415, 440, 500, 560                |            |  |            |             |
| 12, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250                        |            |  |            |             |
| 45 x 74 x 82  |            | 45 x 83 x 93                             |            |             |
| 45 x 74 x 114   |            | 45 x 83 x 118                            |            |             |
| 1NO or 1NC  |            | One Side Mount <b>GUA1</b> (1NO and 1NC) |            |             |
| Side Mount <b>GUA1</b> (1NO/1NC) or Top Mount <b>AX2</b> OR <b>AX4</b>  |            |  |            |             |
| <b>GUR02*</b>   |            | <b>GUR02*</b>                            |            |             |
| <b>GUW12**</b>  |            | <b>GUW32</b>                             |            |             |
| <b>GUS11</b> (for 24~48 VAC or VDC coils),                              |            |  |            |             |
| <b>GUS1</b> (for 24~48 VAC coils), <b>GUS2</b> (for 100~125 VAC coils), |            |  |            |             |



## Thermal Overloads

| Matching Manual Motor Starters | Type |
|--------------------------------|------|
| Rated Operational Current, Ie  |      |
| Rated Breaking Capacity, Icu   |      |

| Connecting Module | AC Coil Contactor |
|-------------------|-------------------|
|                   | DC Coil Contactor |

| GT12                      |                  | GT32                      |                |
|---------------------------|------------------|---------------------------|----------------|
| Range                     |                  | Range                     |                |
| 0.1~0.16A                 |                  | 0.1~0.16A                 |                |
| 9~13A                     |                  | 22~32A                    |                |
| See page 9 for all ranges |                  | See page 9 for all ranges |                |
| <b>GMS-32S</b>            | <b>GMS-32H</b>   | <b>GMS-32S</b>            | <b>GMS-32H</b> |
| 0.1 ~ 32A                 | 0.1 ~ 32A        | 0.1 ~ 32A                 | 0.1 ~ 32A      |
| 8~100kA                   | 20~100kA         | 8~100kA                   | 20~100kA       |
| <b>GDA12SA**</b>          | <b>GDA12HA**</b> | <b>GDA32SA</b>            | <b>GDA32HA</b> |
| <b>GDA12SD**</b>          | <b>GDA12HD**</b> | <b>GDA32SD</b>            | <b>GDA32HD</b> |



| 63AF   |             |           |           | 95AF               |           |           |           |  |
|--|-------------|-----------|-----------|--------------------|-----------|-----------|-----------|--|
| GG35   | GC40        | GC50      | GC63      | GC65               | GC75      | GC85      | GC95      |  |
| 3-Pole   |             |           |           | 3-Pole             |           |           |           |  |
| Screw Clamp or Lug   |             |           |           | Screw Clamp or Lug |           |           |           |  |
| 55A  | 60A         | 70A       | 75A       | 100A               | 110A      | 135A      | 140A      |  |
| 2HP  | 3HP         | 3HP       | 5HP       | 5HP                | 5HP       | 7.5HP     | 10HP      |  |
| 5HP  | 7.5HP       | 10HP      | 10HP      | 15HP               | 15HP      | 15HP      | 20HP      |  |
| 15HP   | 20HP        | 25HP      | 25HP      | 30HP               | 30HP      | 40HP      | 40HP      |  |
| 25HP   | 30HP        | 40HP      | 40HP      | 50HP               | 50HP      | 60HP      | 75HP      |  |
| 30HP   | 40HP        | 50HP      | 50HP      | 60HP               | 60HP      | 75HP      | 75HP      |  |
| 35A  | 40A         | 50A       | 63A       | 65A                | 75A       | 85A       | 95A       |  |
| 30A  | 32.5A       | 37.5A     | 42A       | 55A                | 60A       | 70A       | 75A       |  |
| 55A  | 60A         | 70A       | 75A       | 100A               | 110A      | 135A      | 140A      |  |
| 11 kW 35A  | 11 kW 40A   | 15 kW 55A | 15 kW 63A | 18.5 kW 65A        | 22 kW 75A | 25 kW 85A | 25 kW 95A |  |
| 18.5 kW 35A  | 18.5 kW 40A | 22 kW 50A | 25kW 63A  | 30 kW 65A          | 37 kW 75A | 45 kW 85A | 45 kW 95A |  |
| 22 kW 21A  | 22 kW 23A   | 30 kW 28A | 30 kW 30A | 33 kW 35A          | 37 kW 42A | 45 kW 45A | 45 kW 50A |  |
| 24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600   |             |           |           |                    |           |           |           |  |
| 24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550   |             |           |           |                    |           |           |           |  |
| 24, 48, 120, 220, 230, 240, 380, 400, 415, 440, 500, 560   |             |           |           |                    |           |           |           |  |
| 12, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250   |             |           |           |                    |           |           |           |  |
| 55 x 106 x 122   |             |           |           | 70 x 140 x 137     |           |           |           |  |
| 55 x 106 x 161   |             |           |           | 70 x 140 x 173     |           |           |           |  |
| Two Side Mount <b>GUA1</b> (2NO and 2NC)   |             |           |           |                    |           |           |           |  |
| Top Mount <b>AX2</b> (2NO, 1NC/1NO or 2NC) or Top Mount <b>AX4</b> (4NO, 3NO/1NC, 2NO/2NC, 1NO/3NC or 4NC)                                       |             |           |           |                    |           |           |           |  |
| <b>GUR02*</b>  |             |           |           |                    |           |           |           |  |
| <b>G UW63</b>  |             |           |           | <b>G UW95</b>      |           |           |           |  |
| <b>GUS12</b> (for 100~125 VAC or VDC coils), <b>GUS13</b> (for 200~240 VAC or VDC coils), <b>GUS14</b> (for 380~440 VAC coils)                   |             |           |           |                    |           |           |           |  |
| <b>GUS3</b> (for 200~240 VAC coils), <b>GUS4</b> (for 24~48 VDC coils), <b>GUS5</b> (for 100~125 VDC coils), <b>GUS6</b> (for 200~220 VDC coils) |             |           |           |                    |           |           |           |  |
| <b>GUS22</b> (for 100~125 VAC coils)   |             |           |           |                    |           |           |           |  |



| GT63   | GT95  |
|--|---|
| Range<br>4~6A<br>45~65A                                  | Range<br>4~10A<br>70~95A                                    |
| See page 9 for all ranges                                | See page 9 for all ranges                                   |
| <b>GMS-63S</b> and <b>GMS-63H</b><br>6~63A<br>Max. 100kA | <b>GMS-100S</b> and <b>GMS-100H</b><br>11~100<br>Max. 100kA |
| <b>GDA63A</b><br><b>GDA63D</b>                           | <b>GDA95A</b><br><b>GDA95D</b>                              |

# Midi-Contactors and Overloads

## Accessories

- 1 **GC** Contactor
- 2 **GUA1** 1-pole Side Mount Auxiliary Contact Unit (All types come standard with at least one auxiliary contact, see pages 10 and 11 for more details)
- 3 **Safety Cover** (included)
- 4 **GUS** Surge Unit
- 5 **GT** Overload Relay
- 6 **GUZ** Separate Mounting Unit for Overload
- 7 **AX2** 2-pole Top Mount Auxiliary Contact Unit
- 8 **AX4** 4-pole Top Mount Auxiliary Contact Unit
- 9 **GUM** Remote Reset Unit
- 10 **GUW** Wire Kit for Reversing Contactor
- 11 **GUR** Interlock Unit

