

# Table of specifications

## MC type Magnetic Contactors



| Frame size                                               |                                               |                           | 150AF                    |         | 225AF                           |         | 400AF                           |                     |         |     |   |
|----------------------------------------------------------|-----------------------------------------------|---------------------------|--------------------------|---------|---------------------------------|---------|---------------------------------|---------------------|---------|-----|---|
| Type                                                     | screws clamp terminals<br>Lug clamp terminals |                           | MC-130a                  | MC-150a | MC-185a                         | MC-225a | MC-265a                         | MC-330a             | MC-400a |     |   |
| Number of poles                                          |                                               |                           | 3pole                    |         | 3pole                           |         | 3pole                           |                     |         |     |   |
| Rated operational voltage, Ue                            |                                               |                           | 1000V                    |         | 1000V                           |         | 1000V                           |                     |         |     |   |
| Rated insulation voltage, Ui                             |                                               |                           | 1000V                    |         | 1000V                           |         | 1000V                           |                     |         |     |   |
| Rated frequency                                          |                                               |                           | 50/60Hz                  |         | 50/60Hz                         |         | 50/60Hz                         |                     |         |     |   |
| Rated impulse withstand voltage, Uimp                    |                                               |                           | 8kV                      |         | 8kV                             |         | 8kV                             |                     |         |     |   |
| Maximum operating rate in operating cycles per hour(AC3) |                                               |                           | 1200 operations per hour |         | 1200 operations per hour        |         | 1200 operations per hour        |                     |         |     |   |
| Durability                                               | Mechanical                                    |                           | 5 mil. operations        |         | 5 mil. operations               |         | 5 mil. operations               | 2.5 mil. operations |         |     |   |
|                                                          | Electrical                                    |                           | 1 mil. operations        |         | 1 mil. operations               |         | 1 mil. operations               | 0.5 mil. operations |         |     |   |
| Current and power                                        | AC-1, Thermal current                         | A                         | 200                      | 250     | 300                             | 350     | 400                             | 500                 | 520     |     |   |
|                                                          |                                               | kW                        | 37                       | 45      | 55                              | 75      | 80                              | 90                  | 125     |     |   |
|                                                          | AC-3                                          | 200/240V                  | A                        | 130     | 150                             | 185     | 225                             | 265                 | 330     | 400 |   |
|                                                          |                                               | kW                        | 60                       | 75      | 90                              | 132     | 147                             | 160                 | 200     |     |   |
|                                                          | 380/440V                                      | A                         | 130                      | 150     | 185                             | 225     | 265                             | 330                 | 400     |     |   |
|                                                          |                                               | kW                        | 60                       | 70      | 110                             | 132     | 147                             | 160                 | 225     |     |   |
|                                                          | 500/550V                                      | A                         | 90                       | 100     | 180                             | 200     | 225                             | 280                 | 350     |     |   |
|                                                          |                                               | kW                        | 55                       | 55      | 110                             | 140     | 160                             | 200                 | 250     |     |   |
|                                                          | 690V                                          | A                         | 60                       | 60      | 120                             | 150     | 185                             | 220                 | 300     |     |   |
|                                                          |                                               | kW                        | 75                       | 75      | 132                             | 132     | 147                             | 147                 | 147     |     |   |
| 1000V                                                    | A                                             | 50                        | 50                       | 90      | 90                              | 105     | 105                             | 105                 |         |     |   |
|                                                          | kW                                            | 1350                      | 1800                     | 2000    | 2500                            | 3500    | 4000                            | 4600                |         |     |   |
| Rated Short-time withstand current (IEC 60947)           | 1s                                            | A                         | 950                      | 1200    | 1500                            | 1700    | 2400                            | 3000                | 4400    |     |   |
|                                                          | 30s                                           | A                         | 700                      | 800     | 1000                            | 1200    | 1500                            | 2500                | 2974    |     |   |
|                                                          | 1min                                          | A                         | 550                      | 600     | 800                             | 1000    | 1100                            | 1700                | 1846    |     |   |
|                                                          | 3min                                          | A                         | 350                      | 450     | 520                             | 700     | 800                             | 1000                | 1313    |     |   |
|                                                          | 10min                                         | A                         | 200                      | 300     | 350                             | 500     | 600                             | 620                 | 760     |     |   |
|                                                          | ≥15min                                        | A                         | 175                      | 280     | 320                             | 400     | 500                             | 553                 | 699     |     |   |
| UL rating (50/60Hz)                                      | Continuous current                            | A                         | 200                      | 250     | 300                             | 350     | 400                             | 500                 | 520     |     |   |
|                                                          |                                               | Single phase              | 110~120V                 | HP      | 10                              | 15      | 15                              | 15                  | -       | -   | - |
|                                                          |                                               |                           | 220~240V                 | HP      | 20                              | 25      | 30                              | 40                  | -       | -   | - |
|                                                          | Three phase                                   | 200~208V                  | HP                       | 40      | 40                              | 60      | 60                              | 75                  | 100     | 125 |   |
|                                                          |                                               | 220~240V                  | HP                       | 40      | 50                              | 60      | 75                              | 100                 | 100     | 150 |   |
|                                                          |                                               | 440~480V                  | HP                       | 75      | 100                             | 125     | 150                             | 200                 | 200     | 300 |   |
|                                                          |                                               | 550~600V                  | HP                       | 75      | 75                              | 125     | 150                             | 200                 | 200     | 300 |   |
| NEMA size                                                |                                               |                           |                          |         |                                 |         |                                 | 4                   |         |     |   |
| Size and weight                                          | AC control                                    | Weight                    | 2.4                      |         | 5.4                             |         | 9.2                             |                     |         |     |   |
|                                                          | DC control                                    | Size(WxHxD)               | 119 × 158 × 130.3        |         | 138 × 203 × 185.1               |         | 163 × 243 × 204.4               |                     |         |     |   |
| Auxiliary(standard)                                      |                                               |                           | 2a2b                     |         | 2a2b                            |         | 2a2b                            |                     |         |     |   |
|                                                          | Auxiliary                                     | Side mount<br>Front mount | UA-1<br>UA-2, UA-4       |         | AU-100, AU-100E (Max.4a4b)<br>- |         | AU-100, AU-100E (Max.4a4b)<br>- |                     |         |     |   |

## MT type Thermal Overload Relays



| Type                                  | MT150/□                                       |    | MT225/□        |  | MT400/□         |  |
|---------------------------------------|-----------------------------------------------|----|----------------|--|-----------------|--|
|                                       | screws clamp terminals<br>Lug clamp terminals |    | ●              |  | ●               |  |
| Rated operational voltage, Ue         | 690V                                          |    | 690V           |  | 690V            |  |
| Rated insulation voltage, Ui          | 690V                                          |    | 690V           |  | 690V            |  |
| Rated impulse withstand voltage, Uimp | 6kV                                           |    | 6kV            |  | 6kV             |  |
| Trip class                            | 10A, 20                                       |    | 10A, 20        |  | 10A, 20         |  |
| Setting range                         | 34~150A                                       |    | 65~240A        |  | 85~400A         |  |
| Size and weight                       | Weight                                        | kg | 0.67           |  | 2.5             |  |
|                                       | Size(WxHxD)                                   | mm | 95 × 109 × 113 |  | 147 × 141 × 184 |  |
|                                       |                                               |    | 2.6            |  | 151 × 171 × 198 |  |

\* The safety cover of magnetic contactor and thermal overload relay is optional.