



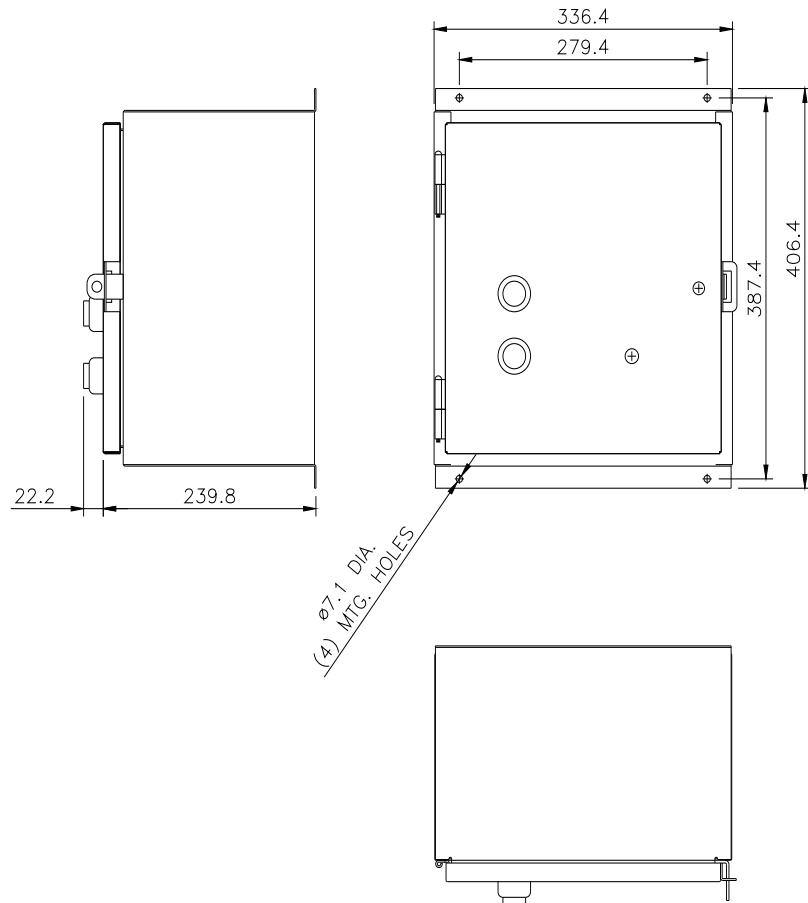
Mechanically held Lighting contactor Contactor amp rating 100Amp 0 NC / 2 NO poles 24VAC 60HZ coil Non-combination type Encl NEMA type 4X 304 S-steel Water/dust tight non-corrosive

|                                                                          |                                         |
|--------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                       | Class CLM                               |
| design of the product                                                    | Magnetically latched lighting contactor |
| special product feature                                                  | Energy efficient; Quiet operation       |
| <b>General technical data</b>                                            |                                         |
| weight [lb]                                                              | 25 lb                                   |
| Height x Width x Depth [in]                                              | 15 x 14 x 10 in                         |
| touch protection against electrical shock                                | NA for enclosed products                |
| installation altitude [ft] at height above sea level maximum             | 6560 ft                                 |
| country of origin                                                        | USA                                     |
| <b>Contactors</b>                                                        |                                         |
| size of contactor                                                        | 100 Amp                                 |
| number of NO contacts for main contacts                                  | 2                                       |
| number of NC contacts for main contacts                                  | 0                                       |
| operating voltage for main current circuit at AC at 60 Hz maximum        | 600 V                                   |
| mechanical service life (operating cycles) of the main contacts typical  | 5000000                                 |
| contact rating of the main contacts of lighting contactor                |                                         |
| • at tungsten (1 pole per 1 phase) rated value                           | 100A @277V 1p 1ph                       |
| • at tungsten (2 poles per 1 phase) rated value                          | 100A @480V 2p 1ph                       |
| • at tungsten (3 poles per 3 phases) rated value                         | 100A @480V 3p 3ph                       |
| • at ballast (1 pole per 1 phase) rated value                            | 100A @347V 1p 1ph                       |
| • at ballast (2 poles per 1 phase) rated value                           | 100A @600V 2p 1ph                       |
| • at ballast (3 poles per 3 phases) rated value                          | 100A @600V 3p 3ph                       |
| • at resistive load (1 pole per 1 phase) rated value                     | 100A @347V 1p 1ph                       |
| • at resistive load (2 poles per 1 phase) rated value                    | 100A @600V 2p 1ph                       |
| • at resistive load (3 poles per 3 phases) rated value                   | 100A @600V 3p 3ph                       |
| <b>Auxiliary contact</b>                                                 |                                         |
| number of NC contacts for auxiliary contacts                             | 0                                       |
| number of NO contacts for auxiliary contacts                             | 0                                       |
| number of total auxiliary contacts maximum                               | 4                                       |
| contact rating of auxiliary contacts of contactor according to UL        | NA                                      |
| <b>Coil</b>                                                              |                                         |
| type of voltage of the control supply voltage                            | AC                                      |
| control supply voltage                                                   |                                         |
| • at AC at 60 Hz rated value                                             | 24 V                                    |
| apparent pick-up power of magnet coil at AC                              | 900 VA                                  |
| apparent holding power of magnet coil at AC                              | 200 VA                                  |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1                            |

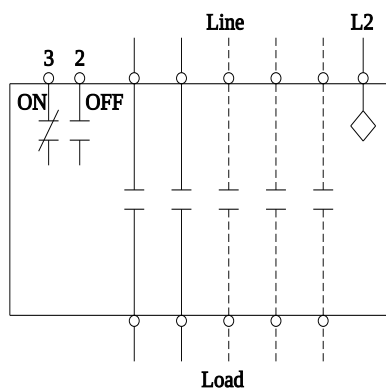
| Enclosure                                                                                                                                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| degree of protection NEMA rating of the enclosure                                                                                                          | NEMA 4x 304 stainless steel enclosure          |
| design of the housing                                                                                                                                      | dustproof, waterproof & resistant to corrosion |
| Mounting/wiring                                                                                                                                            |                                                |
| mounting position                                                                                                                                          | Vertical                                       |
| fastening method                                                                                                                                           | Surface mounting and installation              |
| type of electrical connection for supply voltage line-side                                                                                                 | Box lug                                        |
| tightening torque [lbf-in] for supply                                                                                                                      | 90 ... 100 lbf-in                              |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                                                          | 1x (6 ... 1/0 AWG)                             |
| temperature of the conductor for supply maximum permissible                                                                                                | 75 °C                                          |
| material of the conductor for supply                                                                                                                       | AL or CU                                       |
| type of electrical connection for load-side outgoing feeder                                                                                                | Box lug                                        |
| tightening torque [lbf-in] for load-side outgoing feeder                                                                                                   | 90 ... 100 lbf-in                              |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded                                         | 1x (6 ... 1/0 AWG)                             |
| temperature of the conductor for load-side outgoing feeder maximum permissible                                                                             | 75 °C                                          |
| material of the conductor for load-side outgoing feeder                                                                                                    | AL or CU                                       |
| type of electrical connection of magnet coil                                                                                                               | Screw-type terminals                           |
| tightening torque [lbf-in] at magnet coil                                                                                                                  | 8 ... 12 lbf-in                                |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded                                                        | 2x (16 ... 12 AWG)                             |
| temperature of the conductor at magnet coil maximum permissible                                                                                            | 75 °C                                          |
| material of the conductor at magnet coil                                                                                                                   | CU                                             |
| Short-circuit current rating                                                                                                                               |                                                |
| design of the fuse link for short-circuit protection of the main circuit required                                                                          | none                                           |
| design of the short-circuit trip                                                                                                                           | Thermal magnetic circuit breaker               |
| maximum short-circuit current breaking capacity (Icu) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 5 kA<br>5 kA<br>5 kA                           |
| certificate of suitability                                                                                                                                 | NEMA ICS 2; UL 508; CSA 22.2, No. 14           |
| Approvals Certificates                                                                                                                                     |                                                |
| Test Certificates                                                                                                                                          |                                                |



| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Industrial Controls - Product Overview (Catalogs, Brochures,...)</b><br><a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a><br><b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLMSE02024">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLMSE02024</a><br><b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSE02024">https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSE02024</a><br><b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b><br><a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLMSE02024&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLMSE02024&amp;lang=en</a><br><b>Certificates/approvals</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSE02024/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSE02024/certificate</a> |



### Wiring Diagram Class CLM 30-200 Amp 2, 3, 4 and 5 Pole



#### Notes:

1. Dotted lines represent additional poles.  
Contactor may have 2, 3, 4 or 5 poles.
2. Optional auxiliary contacts are not shown.

E87010-A0410-T009-A1-CLM-1

