

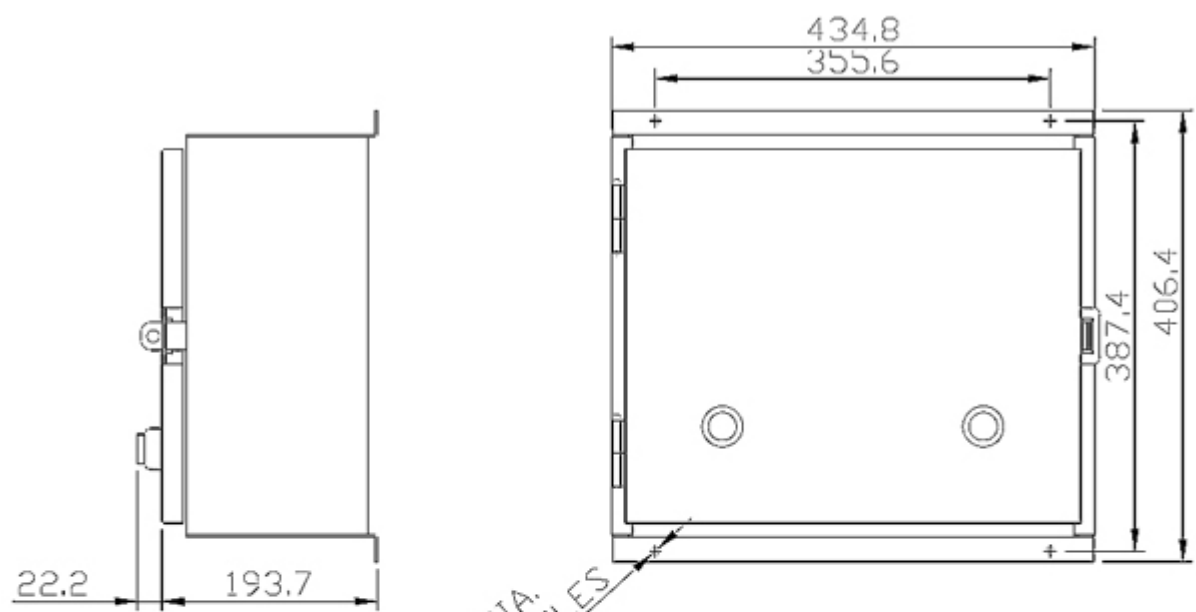


Figure similar

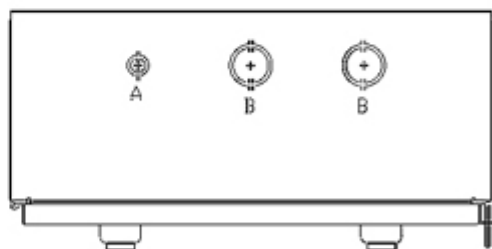
Mechanically held lighting contactor, Contactor amp rating 60Amp 0NC \_ 8NO poles, 110VAC 50HZ/120VAC 60HZ coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

|                                                                         |                                         |
|-------------------------------------------------------------------------|-----------------------------------------|
| 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]                                                             | 20 lb                                   |
| Height x Width x Depth [in]                                             | 16 × 17 × 8 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>Contactor</b>                                                        |                                         |
| size of contactor                                                       | 60 Amp                                  |
| number of NO contacts for main contacts                                 | 8                                       |
| 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 (switching cycles) of the main contacts typical | 10000000                                |
| contact rating of the main contacts of lighting contactor               |                                         |
| • at tungsten (1 pole per 1 phase) rated value                          | 60A @277V 1p 1ph                        |
| • at tungsten (2 poles per 1 phase) rated value                         | 60A @480V 2p 1ph                        |
| • at tungsten (3 poles per 3 phases) rated value                        | 60A @480V 3p 3ph                        |
| • at ballast (1 pole per 1 phase) rated value                           | 60A @347V 1p 1ph                        |
| • at ballast (2 poles per 1 phase) rated value                          | 60A @600V 2p 1ph                        |
| • at ballast (3 poles per 3 phases) rated value                         | 60A @600V 3p 3ph                        |
| • at resistive load (1 pole per 1 phase) rated value                    | 60A @347V 1p 1ph                        |
| • at resistive load (2 poles per 1 phase) rated value                   | 60A @600V 2p 1ph                        |
| • at resistive load (3 poles per 3 phases) rated value                  | 60A @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 50 Hz rated value                                            | 110 V                                   |

|                                                                                                                                                                                                                                                                                                                 |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| • at AC at 60 Hz rated value                                                                                                                                                                                                                                                                                    | 120 V                             |
| apparent pick-up power of magnet coil at AC                                                                                                                                                                                                                                                                     | 1200 V·A                          |
| apparent holding power of magnet coil at AC                                                                                                                                                                                                                                                                     | 80 V·A                            |
| operating range factor control supply voltage rated value of magnet coil                                                                                                                                                                                                                                        | 0.85 ... 1.1                      |
| <b>Enclosure</b>                                                                                                                                                                                                                                                                                                |                                   |
| degree of protection NEMA rating of the enclosure                                                                                                                                                                                                                                                               | NEMA 1 enclosure                  |
| design of the housing                                                                                                                                                                                                                                                                                           | Indoor general purpose use        |
| <b>Mounting/wiring</b>                                                                                                                                                                                                                                                                                          |                                   |
| 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                                                                                                                                                                                                                                                                           | 45 ... 50 lbf·in                  |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded                                                                                                                                                                                                                | 1x (14 ... 4 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                                                                                                                                                                                                                                                        | 45 ... 50 lbf·in                  |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded                                                                                                                                                                                               | 1x (14 ... 4 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 at 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                                |
| <b>Short-circuit current rating</b>                                                                                                                                                                                                                                                                             |                                   |
| 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  |
| breaking capacity maximum short-circuit current (Icu)                                                                                                                                                                                                                                                           |                                   |
| • at 240 V                                                                                                                                                                                                                                                                                                      | 5 kA                              |
| • at 480 V                                                                                                                                                                                                                                                                                                      | 5 kA                              |
| • at 600 V                                                                                                                                                                                                                                                                                                      | 5 kA                              |
| certificate of suitability                                                                                                                                                                                                                                                                                      | NEMA ICS 2; UL 508A               |
| <b>Further information</b>                                                                                                                                                                                                                                                                                      |                                   |
| <b>Industrial Controls - Product Overview (Catalogs, Brochures,...)</b><br><a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a>                                                                                                                                                     |                                   |
| <b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM1D08120">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM1D08120</a>                                                                                |                                   |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D08120">https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D08120</a>                                                                                  |                                   |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1D08120&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1D08120&amp;lang=en</a> |                                   |
| <b>Certificates/approvals</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D08120/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D08120/certificate</a>                                                                                                          |                                   |

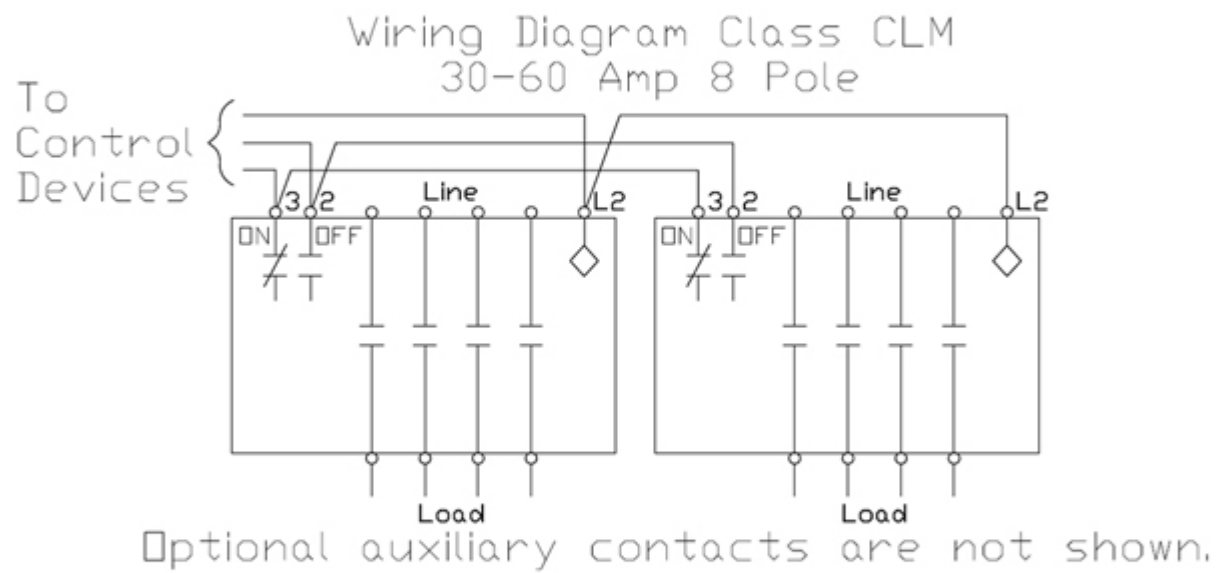


Ø71.1 DIA.  
(4) MTG. HOLES



CONDUITS TYP. TOP & BOTTOM

| LETTER | CONDUIT SIZE          |
|--------|-----------------------|
| A      | Ø12.7 & Ø19 CONDUIT   |
| B      | Ø31.8 & Ø38.1 CONDUIT |



last modified:

3/11/2020 [🔗](#)