



Mechanically held lighting contactor, Contactor amp rating 30A, 0 N.C. / 3 N.O. poles, 110VAC 50HZ/120VAC 60HZ coil, Non-combination type, Enclosure NEMA type (open), No enclosure

|  |  |
|--|--|
| 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]  | 3 lb   |
| Height x Width x Depth [in]  | 4.53 × 3.43 × 4.78 in  |
| touch protection against electrical shock  | Not finger-safe  |
| installation altitude [ft] at height above sea level maximum   | 6560 ft  |
| country of origin  | USA  |
| <b>Contactors</b>  |  |
| size of contactor  | 30 Amp   |
| number of NO contacts for main contacts  | 3  |
| 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  | 10000000   |
| contact rating of the main contacts of lighting contactor  |  |
| <ul style="list-style-type: none"> <li>at tungsten (1 pole per 1 phase) rated value</li> <li>at tungsten (2 poles per 1 phase) rated value</li> <li>at tungsten (3 poles per 3 phases) rated value</li> <li>at ballast (1 pole per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul> | 30A @277V 1p 1ph<br>30A @480V 2p 1ph<br>30A @480V 3p 3ph<br>30A @347V 1p 1ph<br>30A @600V 2p 1ph<br>30A @600V 3p 3ph<br>30A @347V 1p 1ph<br>30A @600V 2p 1ph<br>30A @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   |  |
| <ul style="list-style-type: none"> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> </ul>   | 110 V<br>120 V   |
| apparent pick-up power of magnet coil at AC  | 410 VA   |
| apparent holding power of magnet coil at AC  | 40 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  | Open device (no enclosure)           |
| design of the housing  | NA                                   |
| Mounting/wiring  |                                      |
| mounting position  | Vertical                             |
| fastening method   | Surface mounting and installation    |
| type of electrical connection for supply voltage line-side   | Screw-type terminals                 |
| tightening torque [lbf-in] for supply  | 18 ... 20 lbf-in                     |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                  | 2x (14 ... 8 AWG)                    |
| temperature of the conductor for supply maximum permissible  | 75 °C                                |
| material of the conductor for supply   | CU                                   |
| type of electrical connection for load-side outgoing feeder  | Screw-type terminals                 |
| tightening torque [lbf-in] for load-side outgoing feeder   | 18 ... 20 lbf-in                     |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 2x (14 ... 8 AWG)                    |
| temperature of the conductor for load-side outgoing feeder maximum permissible                                     | 75 °C                                |
| material of the conductor for load-side outgoing feeder  | 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 (I <sub>cu</sub> )   |                                      |
| • at 240 V   | 5 kA                                 |
| • at 480 V   | 5 kA                                 |
| • at 600 V   | 5 kA                                 |
| certificate of suitability   | NEMA ICS 2; UL 508; CSA 22.2, No. 14 |
| Approvals Certificates   |                                      |
| Test Certificates  |                                      |



### Further information

**Industrial Controls - Product Overview (Catalogs, Brochures,...)**

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM0C03120>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

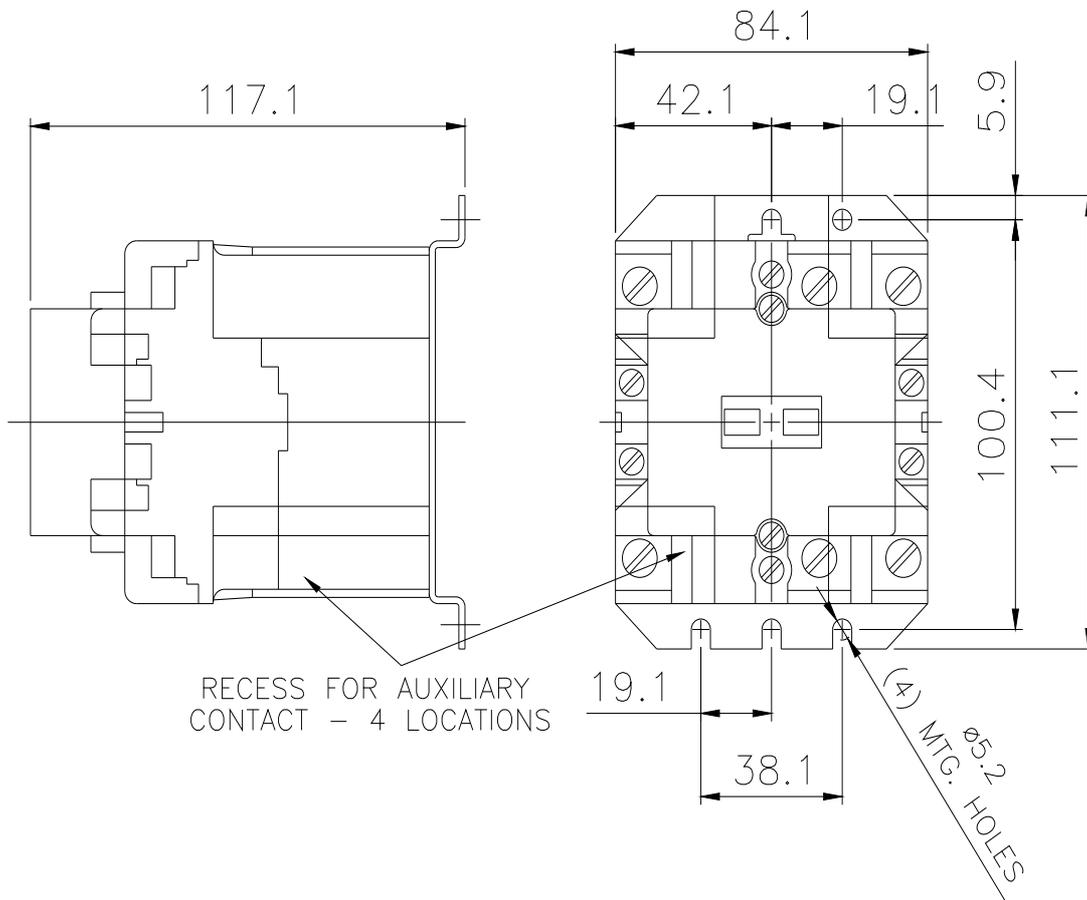
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0C03120>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

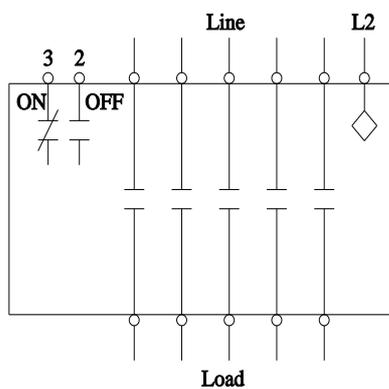
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CLM0C03120&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM0C03120&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0C03120/certificate>



### 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

