



Figure similar

Mechanically held lighting contactor, Contactor amp rating 300Amp 0NC \_  
2NO poles, 440VAC 50HZ/480VAC 60HZ coil, Non-combination type,  
Enclosure NEMA type open, No enclosure

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Class CLM                                                                                                                                                                                 |
| design of the product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mechanically latched lighting contactor                                                                                                                                                   |
| special product feature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Energy efficient; Quiet operation                                                                                                                                                         |
| <b>General technical data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                           |
| weight [lb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 46 lb                                                                                                                                                                                     |
| Height x Width x Depth [in]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 18.57 × 10.61 × 9.06 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>Contactor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |
| size of contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 300 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 (switching cycles) of the main contacts typical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1800000                                                                                                                                                                                   |
| 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> | 300A @277V 1p 1ph<br>300A @480V 2p 1ph<br>300A @480V 3p 3ph<br>300A @347V 1p 1ph<br>300A @600V 2p 1ph<br>300A @600V 3p 3ph<br>300A @347V 1p 1ph<br>300A @600V 2p 1ph<br>300A @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> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 440 V                                                                                                                                                                                     |

|                                                                          |              |
|--------------------------------------------------------------------------|--------------|
| • at AC at 60 Hz rated value                                             | 480 V        |
| apparent pick-up power of magnet coil at AC                              | 1600 V·A     |
| apparent holding power of magnet coil at AC                              | 550 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 | Open device (no enclosure) |
| design of the housing                             | NA                         |

|                                                                                                                   |                                   |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <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                                                                             | 500 ... 525 lbf-in                |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded                  | 1x (4 AWG ... 600 kcmil)          |
| 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                                                          | 500 ... 525 lbf-in                |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 1x (4 AWG ... 600 kcmil)          |
| 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                                                                        | 10 kA                                |
| • at 480 V                                                                        | 10 kA                                |
| • at 600 V                                                                        | 10 kA                                |
| certificate of suitability                                                        | NEMA ICS 2; UL 508; CSA 22.2, No. 14 |

#### 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:CLM0G02480>

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

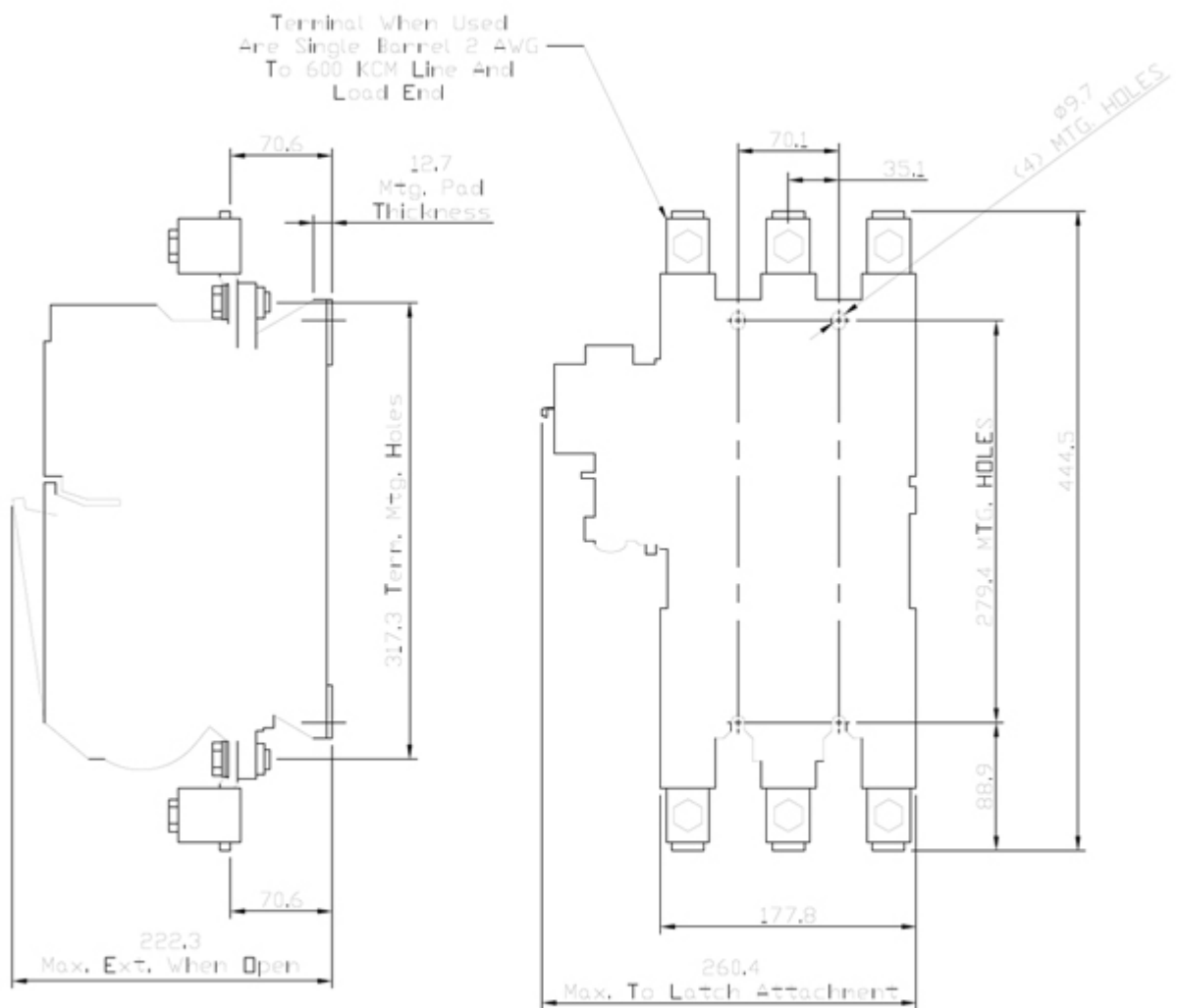
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0G02480>

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

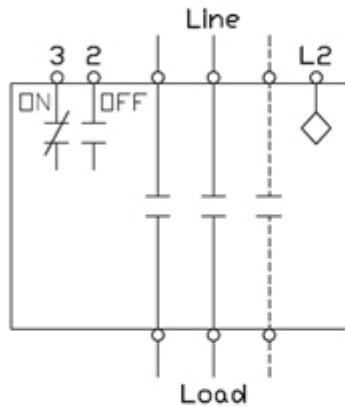
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CLM0G02480&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM0G02480&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0G02480/certificate>



## Wiring Diagram Class CLM 300 & 400 Amp 2 & 3 Pole



Notes:

1. Dotted line represents third pole.  
Contactor may have 2 or 3 poles.
2. Optional auxiliary contacts are not shown.

last modified:

3/11/2020 