

Mechanically held lighting contactor, Contactor amp rating 60A, 0 N.C. / 12 N.O. poles, 277VAC 60HZ coil, Non-combination type, Enclosure NEMA type (open), No enclosure



Figure similar

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13 lb                                                                                                                                                                            |
| Height x Width x Depth [in]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.87 × 16.75 × 5.19 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 60 Amp                                                                                                                                                                           |
| number of NO contacts for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                  |
| <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> | 60A @277V 1p 1ph<br>60A @480V 2p 1ph<br>60A @480V 3p 3ph<br>60A @347V 1p 1ph<br>60A @600V 2p 1ph<br>60A @600V 3p 3ph<br>60A @347V 1p 1ph<br>60A @600V 2p 1ph<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at AC at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 277 V                                                                                                                                                                            |
| apparent pick-up power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1230 VA                                                                                                                                                                          |
| apparent holding power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120 VA                                                                                                                                                                           |

|                                                                                                                   |                                   |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 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                                                                             | 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               |

#### 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:CLM0D12277>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0D12277>

**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:CLM0D12277&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM0D12277&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0D12277/certificate>

last modified:

4/27/2021 