

Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 4 N.O. poles, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



|  |                                      |
|--|--------------------------------------|
| product brand name   | Class CLM                            |
| design of the product  | Mechanically held lighting contactor |
| special product feature  | Energy efficient; Quiet operation    |
| <b>General technical data</b>  |                                      |
| weight [lb]  | 8 lb                                 |
| Height x Width x Depth [in]  | 14 × 8 × 7 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  | 20 Amp                               |
| number of NO contacts for main contacts                                  | 4                                    |
| number of NC contacts for main contacts                                  | 0                                    |
| operating voltage for main current circuit at AC at 60 Hz maximum        | 600 V                                |
| contact rating of the main contacts of lighting contactor                |                                      |
| • at tungsten (1 pole per 1 phase) rated value                           | 20A @250V 1p 1ph                     |
| • at tungsten (2 poles per 1 phase) rated value                          | 20A @250V 2p 1ph                     |
| • at tungsten (3 poles per 3 phases) rated value                         | 20A @250V 3p 3ph                     |
| • at ballast (1 pole per 1 phase) rated value                            | 20A @347V 1p 1ph                     |
| • at ballast (2 poles per 1 phase) rated value                           | 20A @600V 2p 1ph                     |
| • at ballast (3 poles per 3 phases) rated value                          | 20A @600V 3p 3ph                     |
| • at resistive load (1 pole per 1 phase) rated value                     | 30A @347V 1p 1ph                     |
| • at resistive load (2 poles per 1 phase) rated value                    | 30A @600V 2p 1ph                     |
| • at resistive load (3 poles per 3 phases) rated value                   | 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   |                                      |
| • at AC at 50 Hz rated value   | 110 ... 120 V                        |
| • at AC at 60 Hz rated value   | 110 ... 120 V                        |
| apparent pick-up power of magnet coil at AC                              | 600 VA                               |
| apparent holding power of magnet coil at AC                              | 6 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                        | NEMA 1 enclosure                     |

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| design of the housing  | indoors, usable on a general basis   |
| <b>Mounting/wiring</b>   |                                      |
| 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 ... 18 lbf-in                     |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                  | 2x (18 ... 10 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 ... 18 lbf-in                     |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 2x (18 ... 10 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  | 18 ... 18 lbf-in                     |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded                | 2x (18 ... 10 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     |
| 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 |

#### 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:CLM1B04120>

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

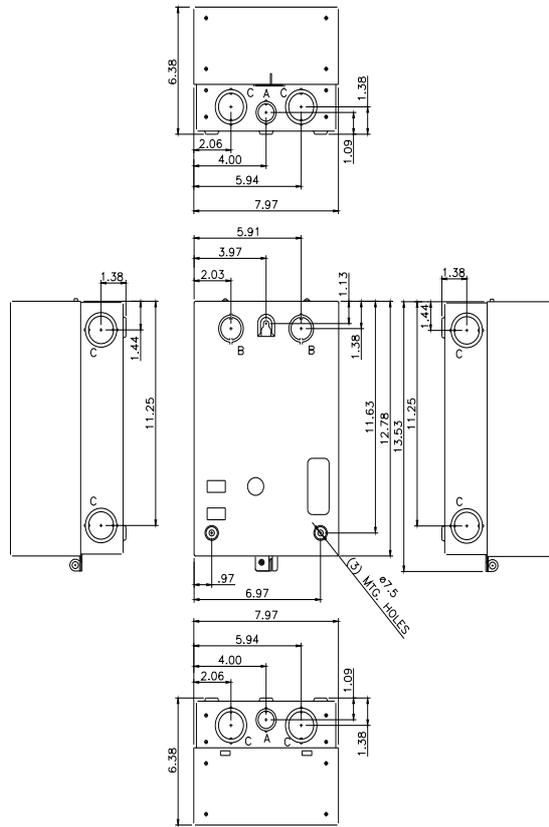
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B04120>

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

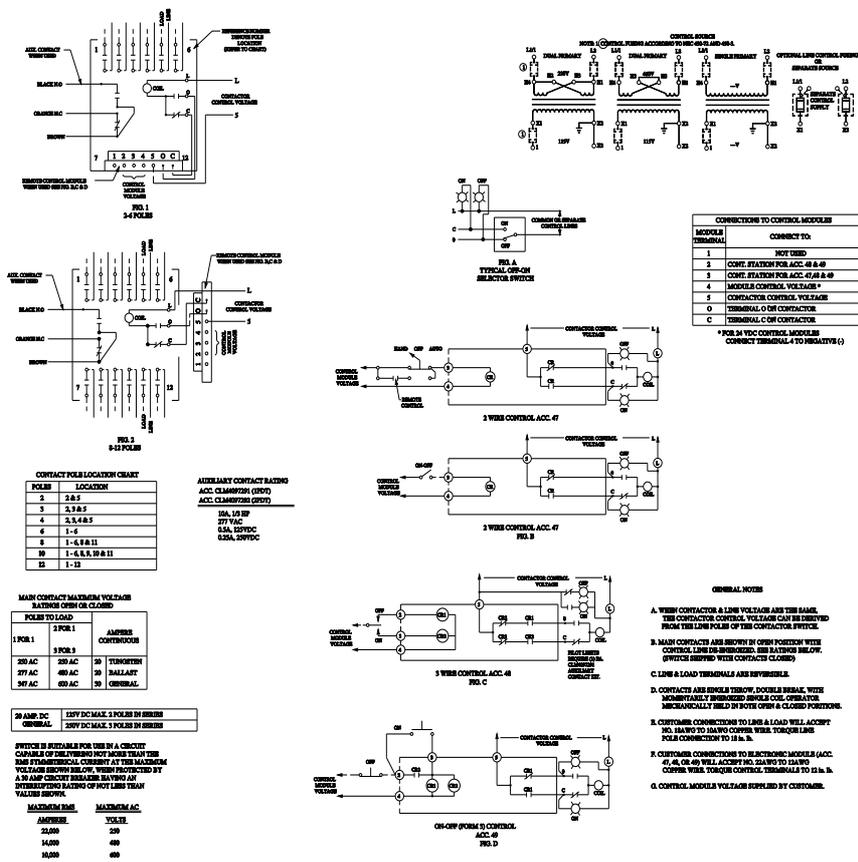
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CLM1B04120&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1B04120&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B04120/certificate>



| LETTER | KNOCKOUT & CONDUIT SIZE               |
|--------|---------------------------------------|
| A      | ø22.2 X ø28.6 FOR 12.7 & 19 CONDUIT   |
| B      | ø28.6 X ø34.9 FOR 19 & 25.4 CONDUIT   |
| C      | ø34.9 X ø43.6 FOR 25.4 & 31.8 CONDUIT |



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last modified:

1/25/2022

