SIEMENS

## Data sheet US2:CLM1D05480

Mechanically held lighting contactor, Contactor amp rating 60Amp 0NC _ 5NO poles, 440VAC 50HZ/480VAC 60HZ coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

| General technical data | |
|---|---|
| Weight [lb] | 8 lb |
| Height x Width x Depth [in] | 11 × 7 × 5 in |
| Protection against electrical shock | NA for enclosed products |
| Installation altitude [ft] at height above sea level maximum | 6560 ft |
| Country of origin | USA |

| Contactor | |
|---|---|
| Number of NO contacts for main contacts | 5 |
| 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 |

| Auxiliary contact | |
|---|---|
| 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 |


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| Coil | |
|---|---|
| Type of voltage of the control supply voltage | AC |
| Control supply voltage | |
| • at DC rated value | 0 ... 0 V |
| • at AC at 60 Hz rated value | 480 ... 480 V |
| • at AC at 50 Hz rated value | 440 ... 440 V |
| Apparent pick-up power of magnet coil at AC | 600 V·A |
| Apparent holding power of magnet coil at AC | 40 V·A |
| Operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |

| Enclosure | |
|---|---|
| Degree of protection NEMA rating of the enclosure | NEMA 1 enclosure |
| Design of the housing | Indoor general purpose use |

| Mounting/wiring | |
|---|---|
| (mounting position) | Vertical |
| (mounting type) | 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 conductors 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 conductors 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 conductors 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 |
|---|


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| | |
|---|---|
| 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 (Icu) | |
| • at 240 V | 5 kA |
| • at 480 V | 5 kA |
| • at 600 V | 5 kA |

## Further information

**Industrial Controls - Product Overview (Catalogs, Brochures,…)**
www.usa.siemens.com/iccatalog

**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM1D05480

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D05480

**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:CLM1D05480&lang=en

**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1D05480/certificate


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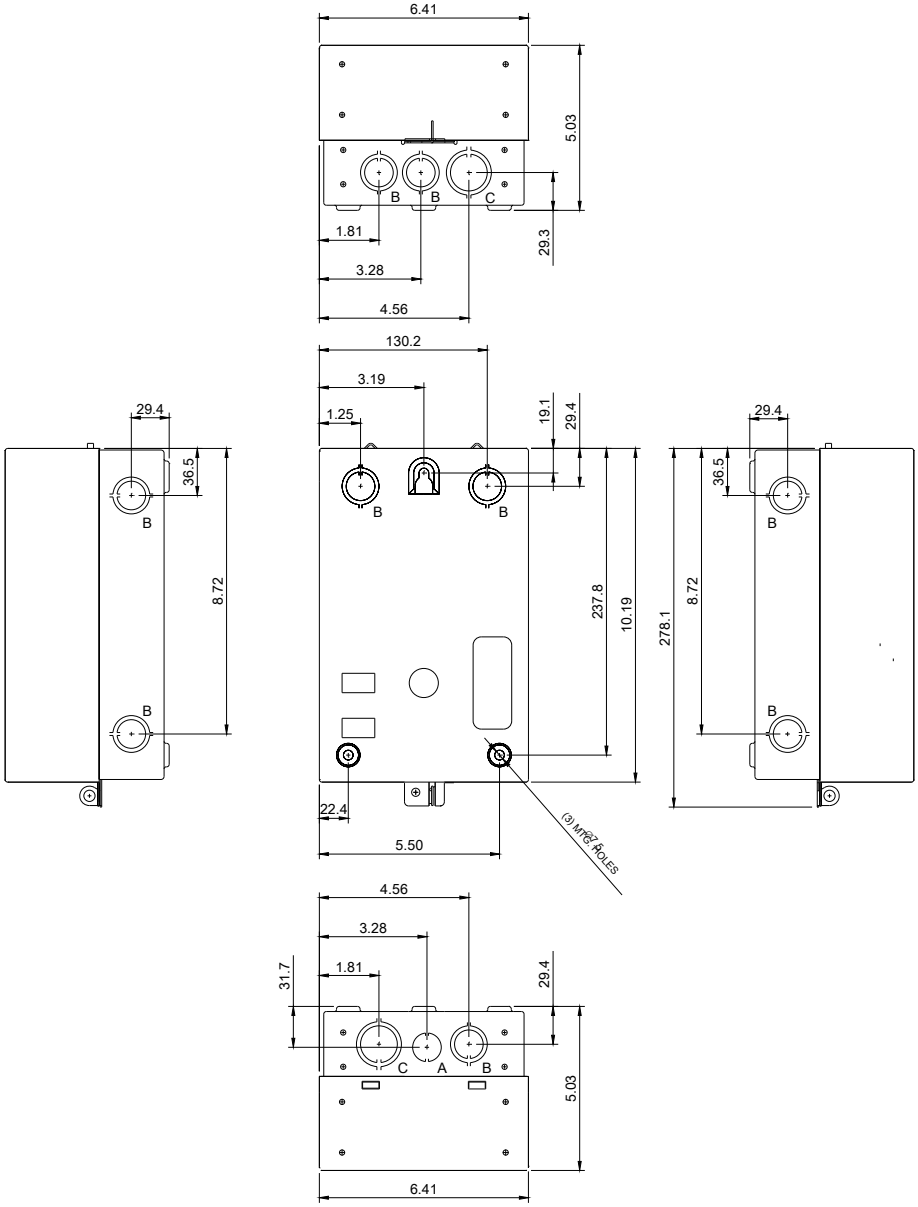


| LETTER | KNOCKOUT & CONDUIT SIZE |
|---|---|
| A | %%C22.2 FOR 12.7 CONDUIT |
| B | %%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT |
| C | %%C28.6 X %%C34.9 FOR 19 & 25.4 CONDUIT |


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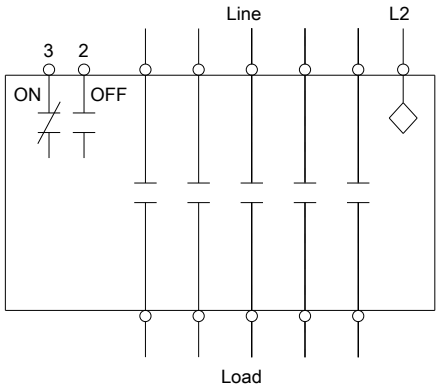
Wiring Diagram Class CLM
30-200 Amp 2. 3. 4 and 5 Pole




Notes:

1. Dotted lines represent additional poles.
   Contactor may have 2. 3. 4 or 5 poles.
2. Optional auxiliary contacts are not shown.

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