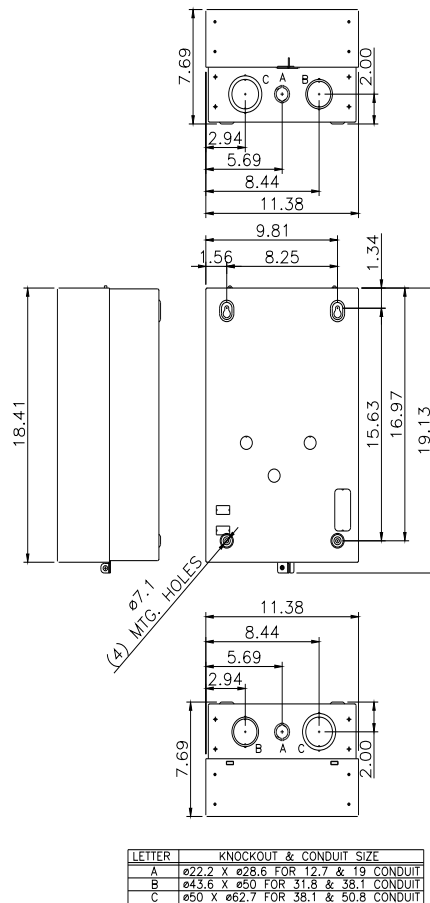




Mechanically held lighting contactor, Contactor amp rating 100A, 0 N.C. / 5 N.O. poles, 220VAC 50HZ/240VAC 60HZ coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

| | |
|--------------------------------------------------------------------------|-----------------------------------------|
| product brand name | Class CLM |
| design of the product | Magnetically latched lighting contactor |
| special product feature | Energy efficient; Quiet operation |
| General technical data | |
| weight [lb] | 25 lb |
| Height x Width x Depth [in] | 20 × 12 × 8 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 |
| Contactor | |
| size of contactor | 100 Amp |
| 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 (operating cycles) of the main contacts typical | 5000000 |
| contact rating of the main contacts of lighting contactor | |
| • at tungsten (1 pole per 1 phase) rated value | 100A @277V 1p 1ph |
| • at tungsten (2 poles per 1 phase) rated value | 100A @480V 2p 1ph |
| • at tungsten (3 poles per 3 phases) rated value | 100A @480V 3p 3ph |
| • at ballast (1 pole per 1 phase) rated value | 100A @347V 1p 1ph |
| • at ballast (2 poles per 1 phase) rated value | 100A @600V 2p 1ph |
| • at ballast (3 poles per 3 phases) rated value | 100A @600V 3p 3ph |
| • at resistive load (1 pole per 1 phase) rated value | 100A @347V 1p 1ph |
| • at resistive load (2 poles per 1 phase) rated value | 100A @600V 2p 1ph |
| • at resistive load (3 poles per 3 phases) rated value | 100A @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 |
| Coil | |
| type of voltage of the control supply voltage | AC |
| control supply voltage | |
| • at AC at 50 Hz rated value | 220 V |
| • at AC at 60 Hz rated value | 240 V |
| apparent pick-up power of magnet coil at AC | 1300 VA |
| apparent holding power of magnet coil at AC | 130 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Enclosure | |
| degree of protection NEMA rating of the enclosure | NEMA 1 enclosure |
| design of the housing | indoors, usable on a general basis |
| Mounting/wiring | |
| 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 | 90 ... 100 lbf-in |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 1x (6 ... 1/0 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 | 90 ... 100 lbf-in |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 1x (6 ... 1/0 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 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 (Icu) <ul style="list-style-type: none"> • at 240 V • at 480 V • at 600 V | 5 kA 5 kA 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 | |
| Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM1E05240 | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1E05240 | |
| 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:CLM1E05240&lang=en | |
| Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1E05240/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

