



Mechanically held lighting contactor. Contactor amp rating 20Amp 0NC \_ 4NO poles, 208-240V 50/60HZ coil, Non-combination type, Encl NEMA type 4X 304 S-steel Water/dust tight noncorrosive

|  |                                       |
|--|---------------------------------------|
| 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]  | 16 × 13 × 6 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>Contactors</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   | 208 ... 240 V                         |
| • at AC at 60 Hz rated value   | 208 ... 240 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 4x 304 stainless steel enclosure |

|  |  |
|--|--|
| design of the housing  | dustproof, waterproof & resistant to corrosion |
| <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:CLMSB04208>

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

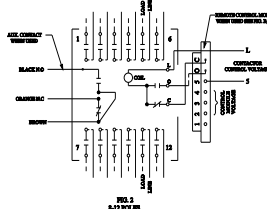
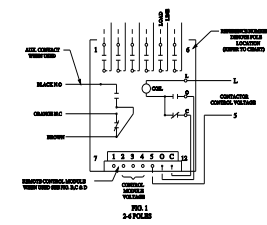
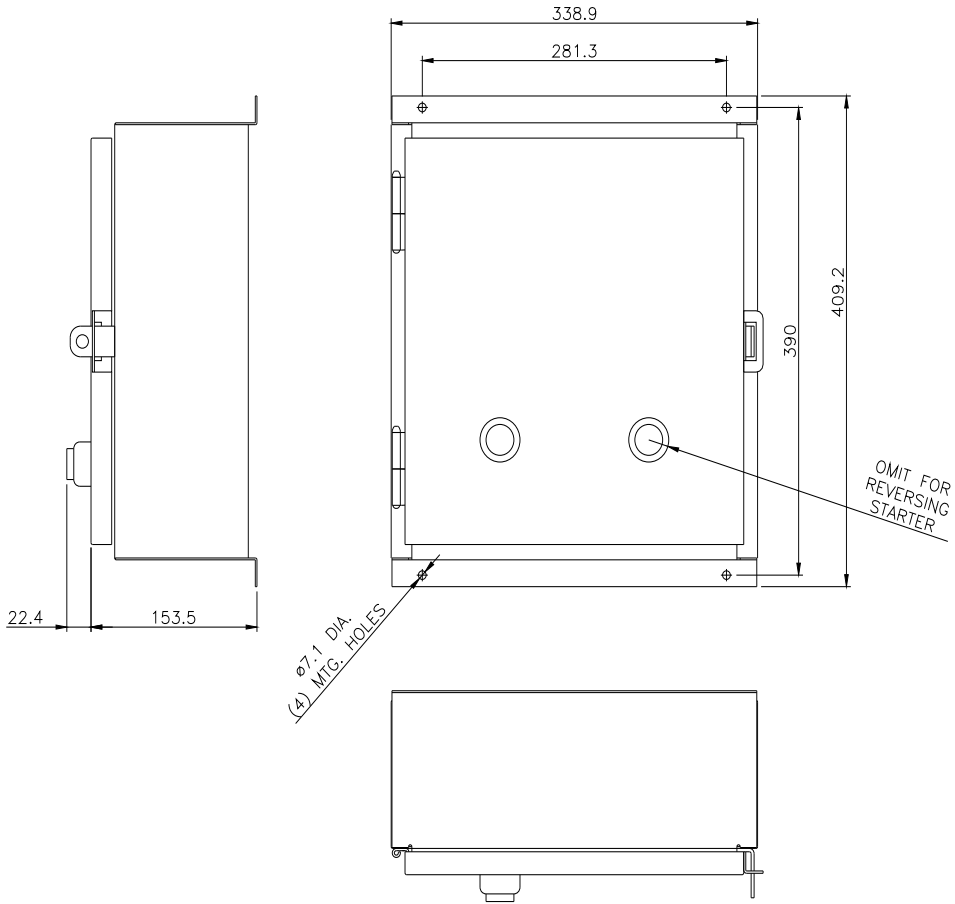
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB04208>

**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:CLMSB04208&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLMSB04208&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB04208/certificate>



| POLES | LOCATION       |
|-------|----------------|
| 2     | 2, 8, 5        |
| 3     | 2, 9, 8, 5     |
| 4     | 2, 9, 8, 5     |
| 6     | 1-6            |
| 8     | 1-6, 8, 11     |
| 10    | 1-6, 8, 10, 11 |
| 12    | 1-12           |

| MAIN CONTACT MATRIX VOLTAGE RANGES OR CIRCUIT |         |                    |
|---|---------|--------------------|
| POLES TO LOAD                                 | 2 FOR 1 | AMPERES CONTINUOUS |
| 3 FOR 1 <td></td> <td></td>                   |         |                    |
| 20 AC   | 20 AC   | 50                 |
| 27 AC   | 27 AC   | 30                 |
| 27 AC   | 48 AC   | 20                 |
| 27 AC   | 60 AC   | 10                 |
|   | 00 AC   | 00                 |

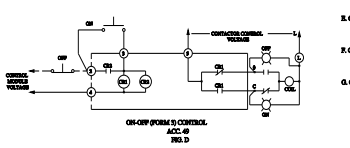
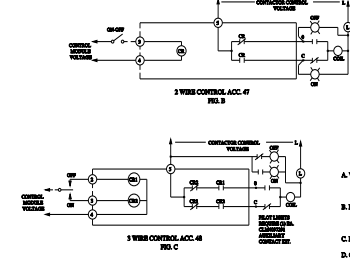
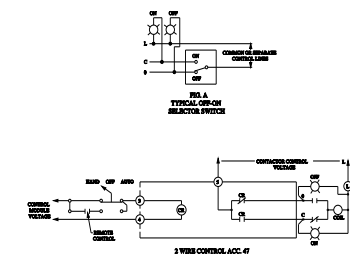
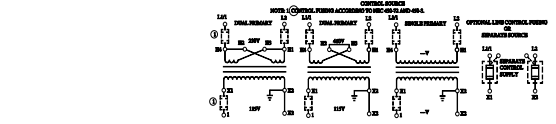
127V DC MAX. 3 POLES IN SERIES  
 20V DC MAX. 3 POLES IN SERIES

SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF INTERRUPTING NOT MORE THAN THE RMS SYMMETRICAL CURRENT AT THE MAXIMUM VOLTAGE SHOWN BELOW. THIS IS LIMITED BY A 50 AMP CIRCUIT BREAKER. EXCEEDING THESE VALUES MAY BEATINGS OF HOT LINES TRIP VALUES APPLY.

| MAXIMUM RMS AMPERE | MAXIMUM AC VOLTAGE |
|--------------------|--------------------|
| 25,000             | 250                |
| 14,000             | 400                |
| 10,000             | 600                |

ASSEMBLY CONTACT RATING  
 ACC. CLASSIFIER (RATED)  
 ACC. CLASSIFIER (DEVT)

10A, 10 HP  
 277 VAC  
 65A, 60 HP  
 65A, 60 HP



| MODULE TERMINAL | CONNECT TO                     |
|-----------------|--------------------------------|
| 1               | NOT USED                       |
| 2               | CONT. STATION FOR ACC. 48 & 49 |
| 3               | CONT. STATION FOR ACC. 48 & 49 |
| 4               | MODULE CONTROL VOLTAGE *       |
| 5               | CONTRACTOR CONTROL VOLTAGE     |
| 6               | TERMINAL O ON CONTRACTOR       |
| 7               | TERMINAL C OFF CONTRACTOR      |

\* FOR 24 VDC CONTROL MODULES CONNECT TERMINAL 4 TO NEGATIVE (-)

- GENERAL NOTES
- WBS CONTACTS & LINE VOLTAGE ARE THE SAME. THE CONTRACTOR CONTROL VOLTAGE CAN BE DERIVED FROM THE LINE POLES OF THE CONTRACTOR SWITCH.
  - MAIN CONTRACTOR LINE SHOULD BE CONNECTED WITH CONTROL LINE AS SHOWN. USE A FUSED BLOW-OUT SWITCH (SEE WITH CONTACTS CLOSED).
  - LINE & LOAD TERMINALS ARE REVERSIBLE.
  - CONTACTS ARE BRUSH TYPE. AVOID BRUSH WITH MOMENTARILY INCREASED BRUSH COIL OPERATOR MECHANICALLY TRIP IN BOTH OPEN & CLOSED POSITIONS.
  - CONTROL CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 18 AWG TO 14 AWG COPPER WIRE THROUGH LINE POLE CONNECTION TO 18 in. ft.
  - CONTROL CONNECTIONS TO ELECTRONIC MODULES (ACC. 45, 46, OR 49) WILL ACCEPT NO. 22 AWG TO 14 AWG COPPER WIRE THROUGH CONTACT TERMINALS TO 24 in. ft.
  - CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

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