

Mechanically held lighting contactor, Contactor amp rating 20Amp  
 0NC - 10NO poles, 208-240V 50/60HZ coil, Non-combination type,  
 Enclosure NEMA type 12, Dust/drip proof for indoors



Figure similar

| General technical data                                       |                          |
|--|--------------------------|
| Weight [lb]  | 9 lb                     |
| Height x Width x Depth [in]                                  | 16 × 13 × 6 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   | 10  |
| 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   |   |
| <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> </ul> | <p>20A @250V 1p 1ph</p> <p>20A @250V 2p 1ph</p> <p>20A @250V 3p 3ph</p> |

|  |                  |
|--|------------------|
| • 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 |

### 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 DC rated value  | 0 ... 0 V     |
| • at AC at 60 Hz rated value   | 208 ... 240 V |
| • at AC at 50 Hz rated value   | 208 ... 240 V |
| Apparent pick-up power of magnet coil at AC                              | 600 V·A       |
| Apparent holding power of magnet coil at AC                              | 6 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 12 enclosure                     |
| Design of the housing                             | Dust tight and drip proof for indoors |

### Mounting/wiring

|  |                                   |
|--|-----------------------------------|
| (mounting position)  | Vertical                          |
| (mounting type)  | 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 at AWG conductors 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 at AWG conductors 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 at AWG conductors 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                   |

#### 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 (I <sub>cu</sub> )                                   |                                  |
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 5 kA<br>5 kA<br>5 kA             |

#### 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:CLM2B10208>

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

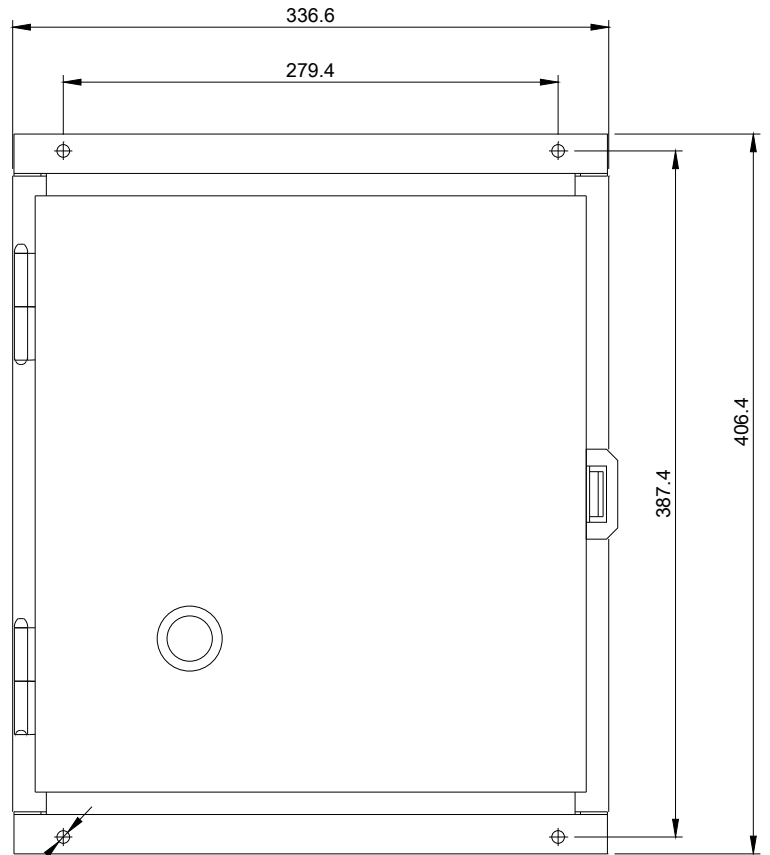
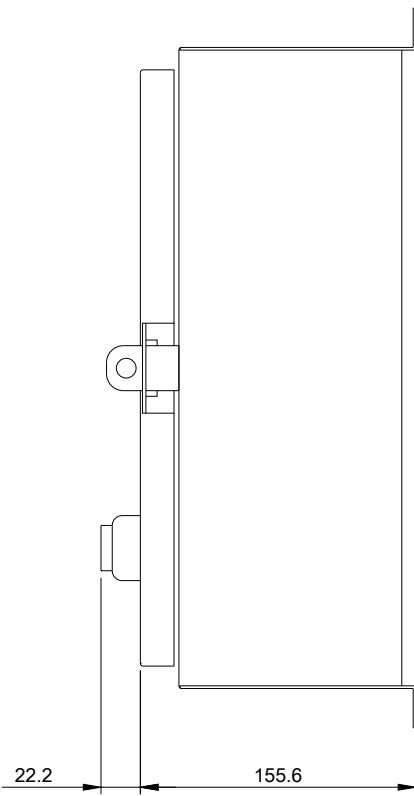
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2B10208>

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

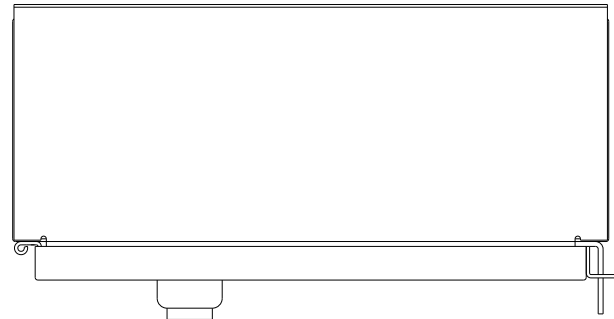
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CLM2B10208&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM2B10208&lang=en)

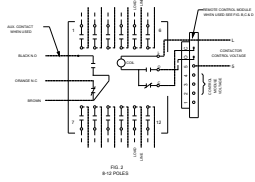
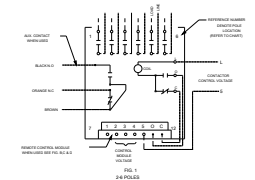
##### Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2B10208/certificate>



(4) M7C HOLES





**CONTACT PAIR LOCATION CHART**

| PAIR | LOCATION |
|------|----------|
| 1    | 1 & 2    |
| 2    | 3 & 4    |
| 3    | 5 & 6    |
| 4    | 7 & 8    |
| 5    | 9 & 10   |
| 6    | 11 & 12  |

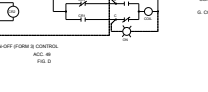
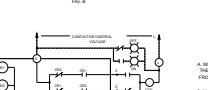
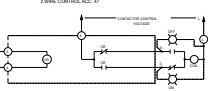
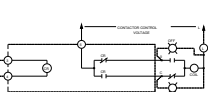
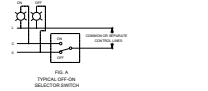
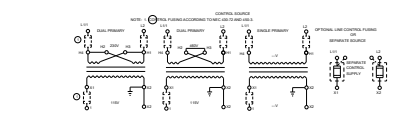
**AUXILIARY CONTACT RATINGS**  
 ACC. CLAMPER (SPST)  
 ACC. CLAMPER (SPDT)

**MAIN CONTACT MAINLINE VOLTAGE RATINGS OPEN OR CLOSED**

| POLES   | 1 FOR 1/2 AC | 2 FOR 1/2 AC | 3 FOR 1/2 AC | 4 FOR 1/2 AC |
|---------|--------------|--------------|--------------|--------------|
| 200V AC | 200 AC       | 200 AC       | 200 AC       | 200 AC       |
| 277V AC | 277 AC       | 277 AC       | 277 AC       | 277 AC       |
| 480V AC | 480 AC       | 480 AC       | 480 AC       | 480 AC       |

**SPST IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF DEVELOPING NOT MORE THAN THE RATED INTERRUPTING CAPACITY OF THE MAINLINE VOLTAGE RATINGS. THIS LIMIT IS INDICATED BY A 50 AMP CIRCUIT BREAKER SYMBOL IN THE INTERRUPTING CAPACITY OF NOT LESS THAN VALUES SHOWN.**

| AMPERES | VOLTS |
|---------|-------|
| 50      | 250   |
| 100     | 480   |
| 1000    | 600   |



**CONNECTIONS TO CONTROL MODULES**

| MODULE TERMINAL | CONNECT TO                       |
|-----------------|----------------------------------|
| 1               | NOT USED                         |
| 2               | CONTROL STATION FOR ACC. 47 & 49 |
| 3               | CONTROL STATION FOR ACC. 47 & 49 |
| 4               | MODULE CONTROL VOLTAGE           |
| 5               | CONTROL STATION FOR ACC. 47 & 49 |
| 6               | TERMINAL 1 OF CONTROL MODULE     |
| 7               | TERMINAL 2 OF CONTROL MODULE     |
| 8               | TERMINAL 3 OF CONTROL MODULE     |

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

- GENERAL NOTES**
- WHEN CONTACTOR & LINE VOLTAGE ARE THE SAME, THE CONTACTOR CONTROL VOLTAGE LINE SHOULD BE DERIVED FROM THE LINE POLES OF THE CONTACTOR SWITCH.
  - MAIN CONTACTS ARE SHOWN IN OPEN POSITION WITH CONTROL LINE DE-ENERGIZED. SEE RATINGS BELOW SWITCH (SHIPPED WITH CONTACTS CLOSED).
  - LINE & LINE TERMINALS ARE INTERCHANGEABLE.
  - CONTACTS ARE SINGLE THROW DOUBLE BREAK, WITH MECHANICALLY ENERGIIZED SINGLE COIL OPERATOR MECHANICALLY FULLY REPOSITIONS & CLOSED POSITIONERS.
  - CUSTOMER CONNECTIONS TO LINE & LOAD WILL ACCEPT 50 AMP. SHOWN TO SHOW CONFORMS TO TONGUE LINE POLE CONNECTION TO 18 & 19.
  - CUSTOMER CONNECTIONS TO ELECTRONIC MODULES (ACC. 47 & 49) WILL ACCEPT ONLY 250V TO 277V CONTROL VOLTAGE. TYPICAL CONTROL TERMINALS TO 21 & 22.
  - CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

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