



Figure similar

Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 2 N.O. poles, Non-combination type, Enclosure NEMA type (open), No enclosure

|  |  |
|--|--|
| 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]  | 2 lb   |
| Height x Width x Depth [in]  | 7.3 × 4.3 × 3.5 in   |
| touch protection against electrical shock  | Not finger-safe  |
| installation altitude [ft] at height above sea level maximum   | 6560 ft  |
| country of origin  | Mexico   |
| <b>Contactor</b>   |  |
| size of contactor  | 20 Amp   |
| number of NO contacts for main contacts  | 2  |
| 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> <li>• at ballast (1 pole per 1 phase) rated value</li> <li>• at ballast (2 poles per 1 phase) rated value</li> <li>• at ballast (3 poles per 3 phases) rated value</li> <li>• at resistive load (1 pole per 1 phase) rated value</li> <li>• at resistive load (2 poles per 1 phase) rated value</li> <li>• at resistive load (3 poles per 3 phases) rated value</li> </ul> | 20A @250V 1p 1ph<br>20A @250V 2p 1ph<br>20A @250V 3p 3ph<br>20A @347V 1p 1ph<br>20A @600V 2p 1ph<br>20A @600V 3p 3ph<br>30A @347V 1p 1ph<br>30A @600V 2p 1ph<br>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   |  |
| <ul style="list-style-type: none"> <li>• at AC at 50 Hz rated value</li> <li>• at AC at 60 Hz rated value</li> </ul>   | 265 ... 277 V<br>265 ... 277 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                         |
| <b>Enclosure</b>  |                                      |
| degree of protection NEMA rating of the enclosure   | Open device (no enclosure)           |
| design of the housing   | NA                                   |
| <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 at 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 at 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 at 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     |
| breaking capacity maximum short-circuit current (Icu)   |                                      |
| • 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:CLM22071>

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

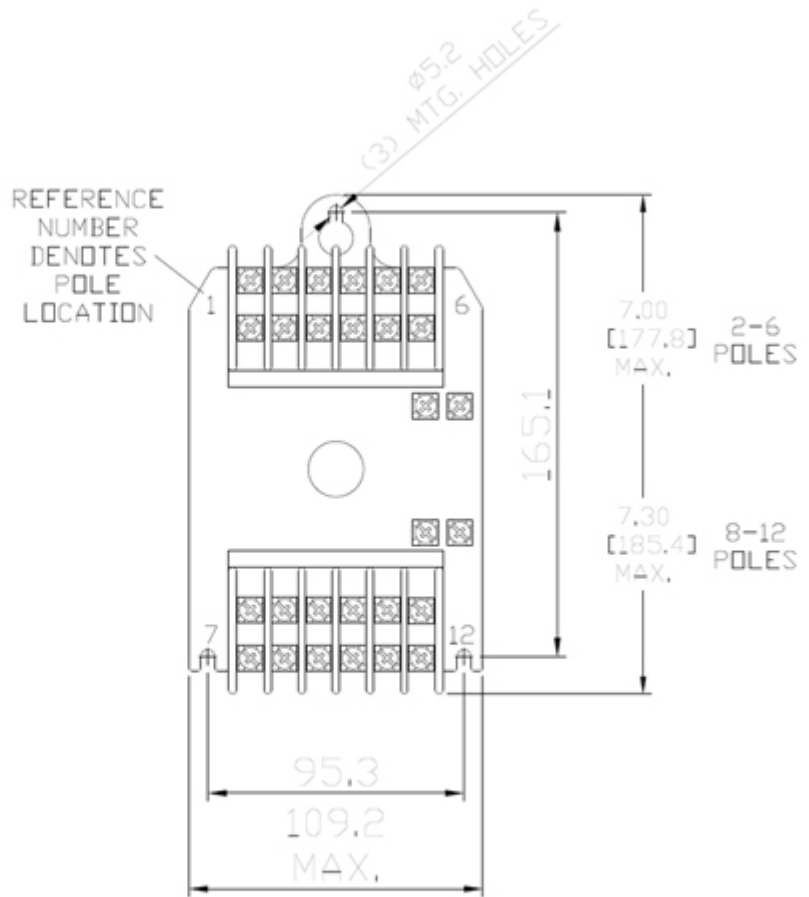
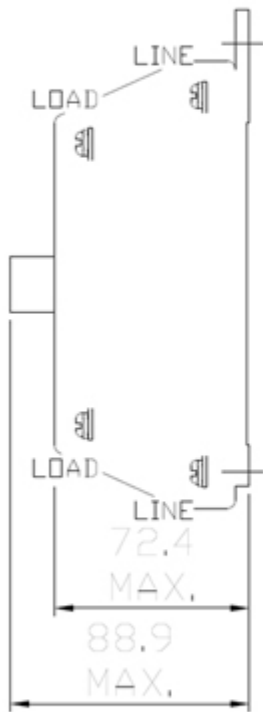
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM22071>

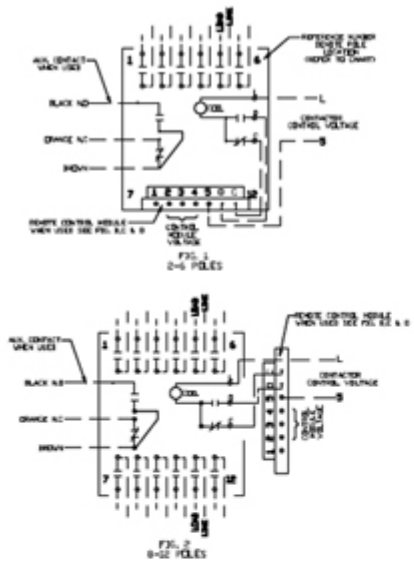
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CLM22071&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM22071&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM22071/certificate>





**CONTACT POLE LOCATION CHART**

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

**AUXILIARY CONTACT RATING**  
 ACC. CUMULATIVE (C/P/ET)  
 ACC. CUMULATIVE (C/P/ET)

10A 1/2 HP  
 277 VAC  
 25A 200VDC  
 125A 250VDC

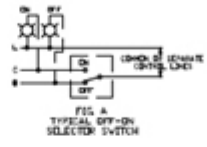
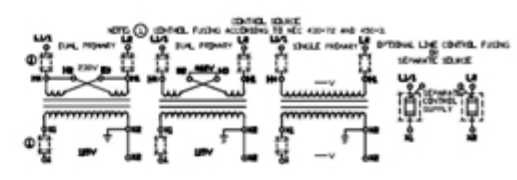
**MAIN CONTACT MAXIMUM VOLTAGE RATINGS OPEN OR CLOSED**

| POLES TO LOAD | 2 FOR 1P | 3 FOR 3P | AMPERE CONTINUOUS |
|---------------|----------|----------|-------------------|
| 250 AC        | 250 AC   | 20       | TUNGSTEN          |
| 277 AC        | 480 AC   | 20       | BALLAST           |
| 347 AC        | 600 AC   | 30       | GENERAL           |

20 AMP. DC 125V DC MAX. 2 POLES IN SERIES  
 GENERAL 125V DC MAX. 3 POLES IN SERIES

SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN THE RMS SYMMETRICAL CURRENT AT THE MAXIMUM VOLTAGE SHOWN BELOW, WHEN PROTECTED BY A 30 AMP CIRCUIT BREAKER HAVING AN INTERRUPTING RATING OF NOT LESS THAN VALUES SHOWN.

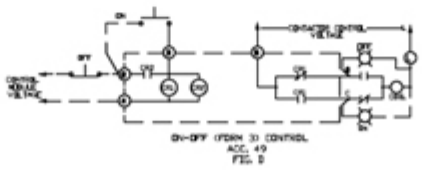
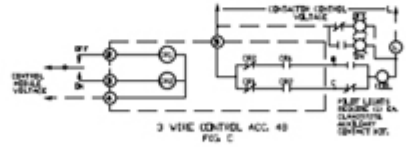
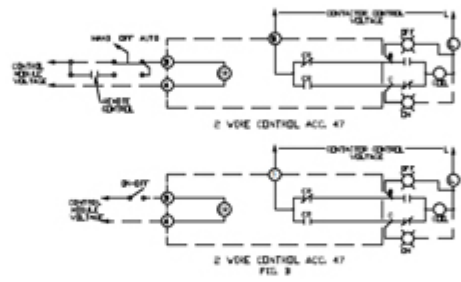
| MAXIMUM RMS AMPERES | MAXIMUM AC VOLTAGE |
|---------------------|--------------------|
| 22,000              | 250                |
| 14,000              | 480                |
| 10,000              | 600                |



**CONNECTIONS TO CONTROL MODULES**

| MODULE TERMINAL | CONNECT TO                        |
|-----------------|-----------------------------------|
| 1               | NOT USED                          |
| 2               | LINE STATION FOR ACC. 48 & 49     |
| 3               | LINE STATION FOR ACC. 47, 48 & 49 |
| 4               | MODULE CONTROL VOLTAGE *          |
| 5               | CONTACTOR CONTROL VOLTAGE         |
| 6               | TERMINAL 'O' ON CONTACTOR         |
| 7               | TERMINAL 'C' ON CONTACTOR         |

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



- GENERAL NOTES**
- WHEN CONTACTOR & LINE VOLTAGE ARE THE SAME, THE CONTACTOR CONTROL VOLTAGE CAN 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 & LOAD TERMINALS ARE REVERSIBLE.
  - CONTACTS ARE SINGLE THROW, DOUBLE BREAK, WITH MOMENTARILY ENERGIZED SINGLE COIL SPOKATOR MECHANICALLY HELD IN BOTH OPEN & CLOSED POSITIONS.
  - CUSTOMER CONNECTIONS TO LINE & LOAD WILL ACCEPT NO DRAW TO DRAW COVER WIRE. TORQUE LINE POLE CONNECTION TO 18 IN. IN.
  - CUSTOMER CONNECTIONS TO ELECTRONIC MODULE (ACC. 47, 48, OR 49) WILL ACCEPT NO DRAW TO DRAW COVER WIRE. TORQUE CONTROL TERMINALS TO 12 IN. IN.
  - CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

last modified:

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