



Figure similar

Mechanically held lighting contactor, Contactor amp rating 20Amp 0NC _
3NO poles, 265-277V 50/60HZ coil, 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 |
| General technical data | |
| 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 |
| Contactor | |
| size of contactor | 20 Amp |
| number of NO contacts for main contacts | 3 |
| 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 |
| 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 | 265 ... 277 V |
| • at AC at 60 Hz rated value | 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 |
| Enclosure | |
| degree of protection NEMA rating of the enclosure | Open device (no enclosure) |
| design of the housing | NA |
| Mounting/wiring | |
| 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 |
| 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 |
| 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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM32071>

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

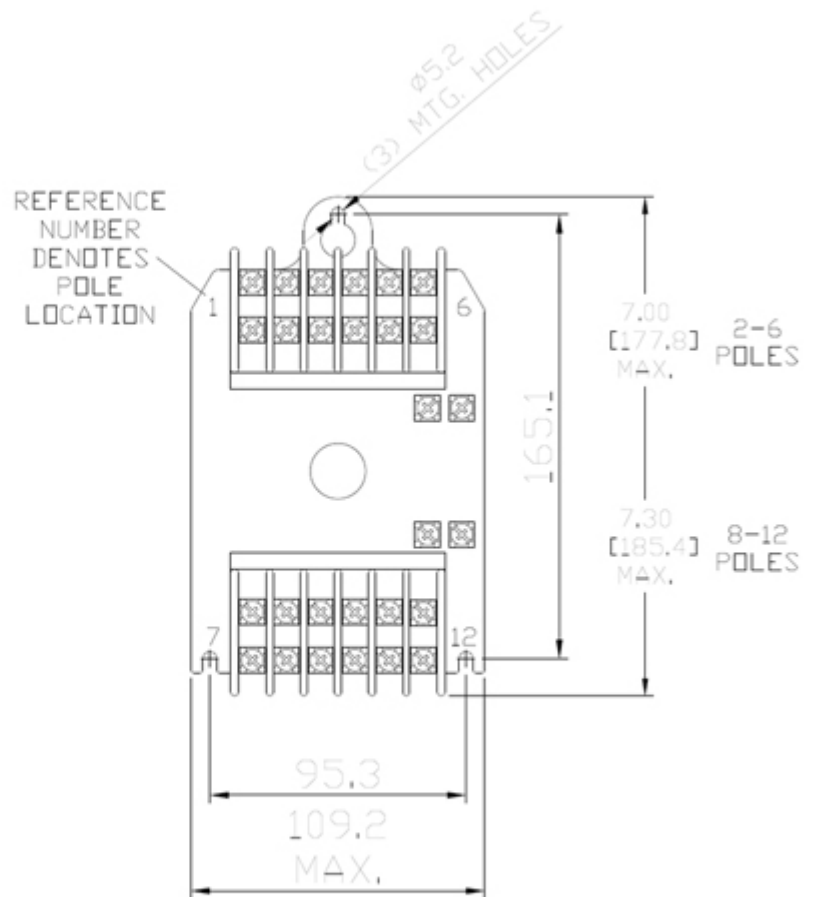
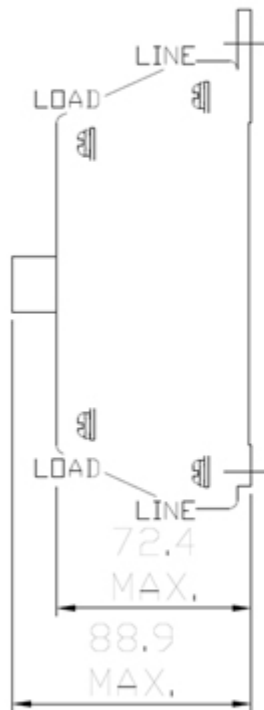
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM32071>

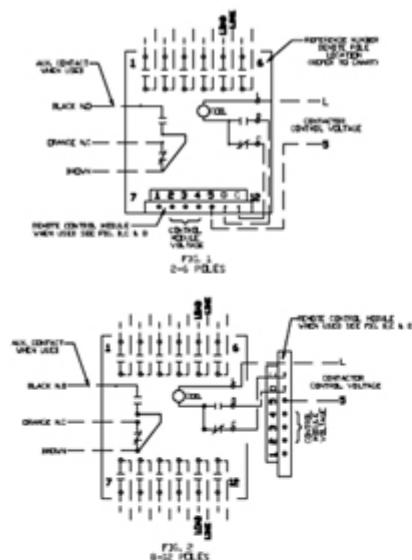
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM32071&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM32071/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 |

MAIN CONTACT MAXIMUM VOLTAGE RATINGS OPEN OR CLOSED

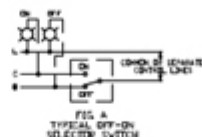
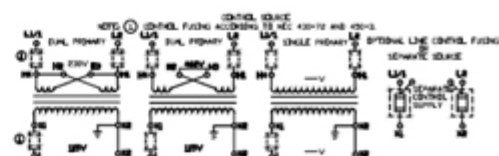
| POLES TO LINE | 2 FOR 1A | 3 FOR 3A | AMPERE CONTINUOUS |
|---------------|----------|----------|-------------------|
| 250 AC | 250 AC | 20 | TUNGSTEN |
| 277 AC | 480 AC | 20 | BALLAST |
| 347 AC | 600 AC | 30 | GENERAL |

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 |
|---------------------|--------------------|
| 20,000 | 250 |
| 14,000 | 480 |
| 10,000 | 600 |

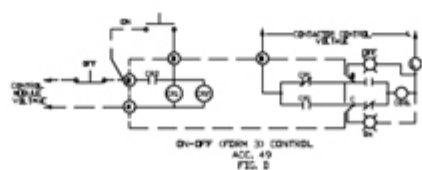
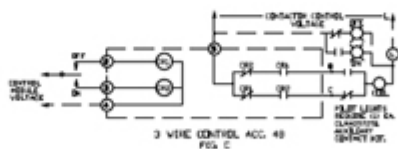
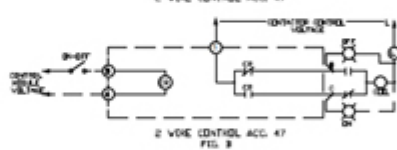
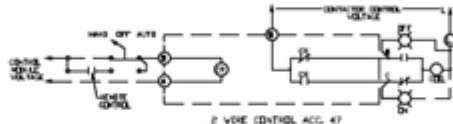
AUXILIARY CONTACT RATING
ACC. CUMULATIVE (C/PST)
ACC. CUMULATIVE (C/PST)
10A, 1/2 HP
277 VAC
25A, 250VDC
25A, 250VDC



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 'D' 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 SHOWN WITH CONTACTS CLOSED)
- LINE & LOAD TERMINALS ARE REVERSIBLE.
- CONTACTS ARE SINGLE THROW, DOUBLE BREAK, WITH MOMENTARILY ENERGIZED SINGLE COIL OPERATOR MECHANICALLY HELD IN BOTH OPEN & CLOSED POSITIONS.
- CUSTOMER CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 10-18 TO 18 AWG COPPER WIRE. TONGUE LINE POLE CONNECTION TO 18 IN. IN.
- CUSTOMER CONNECTIONS TO ELECTRONIC MODULE (ACC. 47, 48, OR 49) WILL ACCEPT NO. 18-22 TO 22 AWG COPPER WIRE. TONGUE CONTROL TERMINALS TO 12 IN. IN.
- CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

last modified:

5/29/2020