



Mechanically held lighting contactor. Contactor amp rating 20Amp 0NC _ 3NO 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 |
| General technical data | |
| 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 |
| Contactors | |
| 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 | 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 |
| Enclosure | |
| degree of protection NEMA rating of the enclosure | NEMA 4x 304 stainless steel enclosure |

| | |
|--|--|
| design of the housing | dustproof, waterproof & resistant to corrosion |
| 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 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 |
| 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 _{cu}) | |
| • 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:CLMSB03240>

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

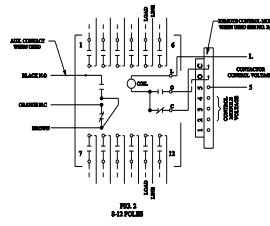
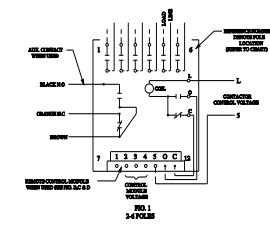
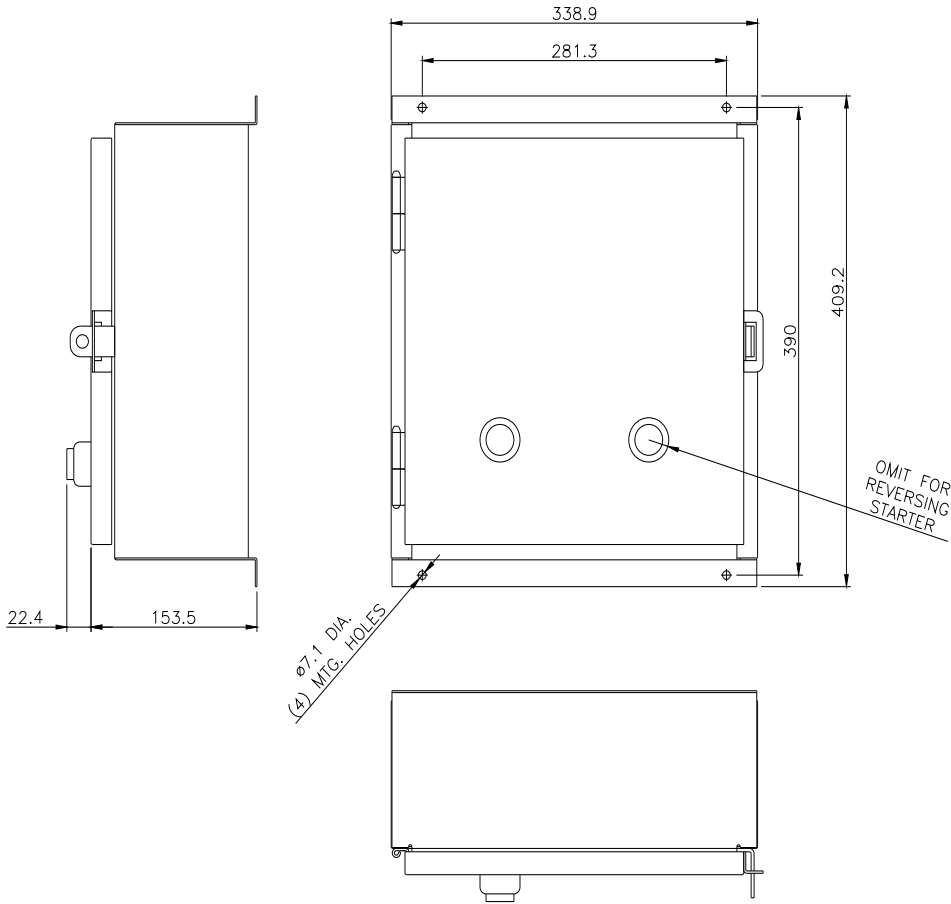
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB03240>

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:CLMSB03240&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB03240/certificate>



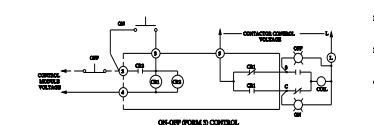
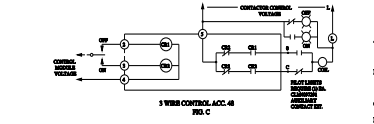
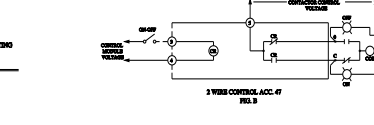
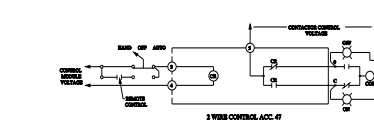
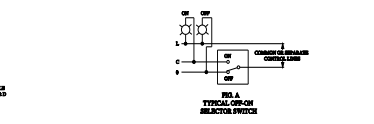
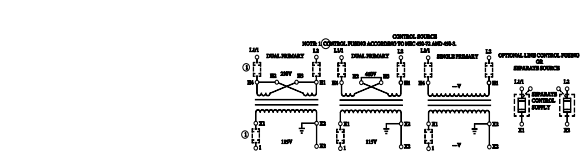
| POLES | LOCATION |
|-------|----------------|
| 1 | 2, 6, 2 |
| 2 | 2, 3, 8, 5 |
| 4 | 2, 3, 4, 8, 5 |
| 6 | 1-6 |
| 8 | 1-6, 8, 11 |
| 10 | 1-6, 8, 10, 11 |
| 12 | 1-12 |

| POLES TO LOAD | 2 POLES | AMPERES CONTINUOUS |
|---------------|---------|--------------------|
| 1 FOR 1 | 3 FOR 1 | |
| 20 AC | 20 AC | 50 |
| 277 AC | 480 AC | 30 |
| 480 AC | 60 AC | 10 |

127V DC MAX. 1 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 INTERRUPTING CAPABILITY IS LIMITED BY THE RATING OF THE CONTACTS. CONTACTS ARE NOT TO BE USED IN A CIRCUIT EXCEEDING THESE VALUES UNLESS SPECIFIED.

| MAXIMUM RMS AMPERES | MAXIMUM AC VOLTS |
|---------------------|------------------|
| 20,000 | 250 |
| 14,000 | 480 |
| 10,000 | 690 |



| 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 CONTACTOR |
| 7 | TERMINAL C ON CONTACTOR |

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

- GENERAL NOTES**
- A. WHEN CONTACTOR IS LINE VOLTAGE AND THE MAIN CONTACTOR CONTROL VOLTAGE CAN BE DERIVED FROM THE LINE POLES OF THE CONTACTOR UNIT.
 - B. MAIN CONTACTOR IS NOT TO BE USED WITH THE CONTROL LINE AS SHOWN. USE A FUSED BLOW-OUT SWITCH (SEE WITH CONTACTS CLOSED).
 - C. LINE & LOAD TERMINALS ARE REVERSIBLE.
 - D. CONTACTS ARE BREAK BEFORE MAKE WITH MECHANICALLY INTERLOCKED TRIP COIL OPERATOR. MECHANICALLY TRIP IN BOTH OPEN & CLOSED POSITIONS.
 - E. CONTACTOR CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 12 AWG TO 14 AWG COPPER WIRE THROUGH LUGS.
 - F. CONTACTOR CONNECTIONS TO ELECTRONIC MODULES (ACC. 45, 46, OR 49) WILL ACCEPT NO. 22 AWG TO 14 AWG COPPER WIRE THROUGH CONTACT TERMINALS TO 25 in. lb.
 - G. CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

24306100401

last modified:

1/25/2022

