

Mechanically held lighting contactor, Contactor amp rating 20Amp
 0NC _ 3NO poles, 208-240V 50/60HZ coil, Non-combination type,
 Enclosure NEMA type 1, Indoor general purpose use



Figure similar

| General technical data | |
|---|--|
| Weight [lb] | 8 lb |
| Height x Width x Depth [in] | 14 × 8 × 7 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 | 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 | |
| <ul style="list-style-type: none"> • at tungsten (1 pole per 1 phase) rated value • at tungsten (2 poles per 1 phase) rated value • at tungsten (3 poles per 3 phases) rated value | 20A @250V 1p 1ph 20A @250V 2p 1ph 20A @250V 3p 3ph |

- at ballast (1 pole per 1 phase) rated value
- at ballast (2 poles per 1 phase) rated value
- at ballast (3 poles per 3 phases) rated value
- at resistive load (1 pole per 1 phase) rated value
- at resistive load (2 poles per 1 phase) rated value
- at resistive load (3 poles per 3 phases) rated value

20A @347V 1p 1ph
 20A @600V 2p 1ph
 20A @600V 3p 3ph
 30A @347V 1p 1ph

 30A @600V 2p 1ph

 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 | |
| <ul style="list-style-type: none"> • at DC rated value • at AC at 60 Hz rated value • at AC at 50 Hz rated value | 0 ... 0 V 208 ... 240 V 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 1 enclosure |
| Design of the housing | Indoor general purpose use |

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 (Icu) <ul style="list-style-type: none"> • at 240 V • at 480 V • at 600 V | 5 kA 5 kA 5 kA |

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:CLM1B03208>

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

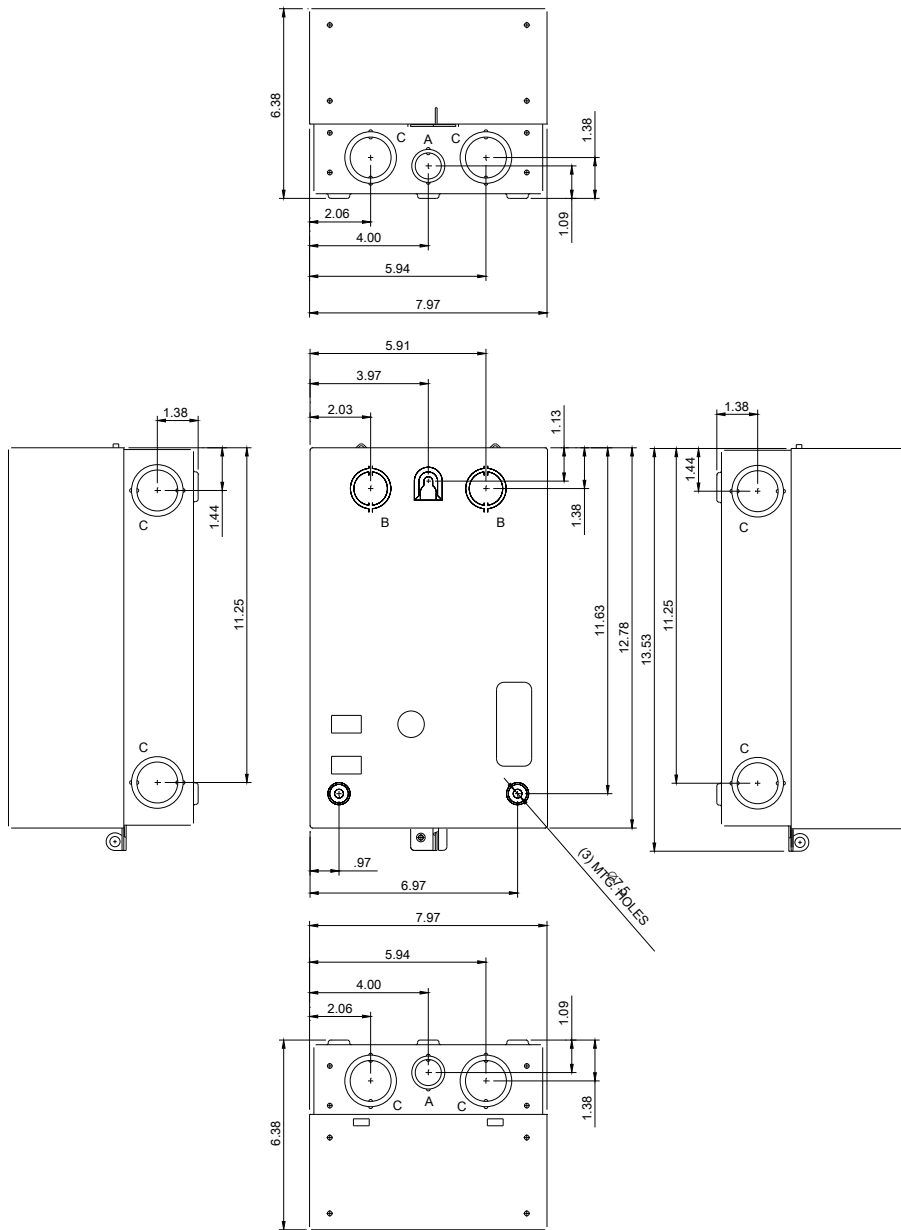
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B03208>

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

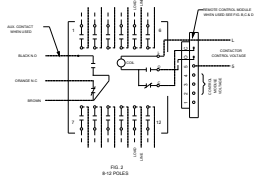
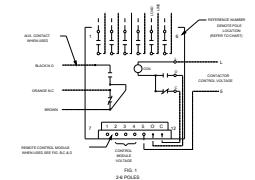
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1B03208&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B03208/certificate>



| LETTER | KNOCKOUT & CONDUIT SIZE |
|--------|---|
| A | %%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT |
| B | %%C28.6 X %%C34.9 FOR 19 & 25.4 CONDUIT |
| C | %%C34.9 X %%C43.6 FOR 25.4 & 31.8 CONDUIT |



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. CUMMERBUYS (SPST)
 ACC. CUMMERBUYS (SPDT)

10A, 250V AC
 10A, 250V DC
 3A, 250V AC

MAIN CONTACT MAINLINE VOLTAGE RATINGS OPEN OR CLOSED

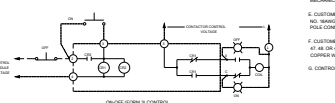
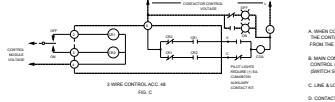
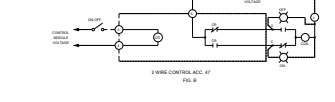
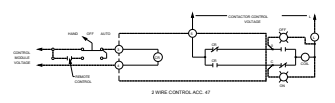
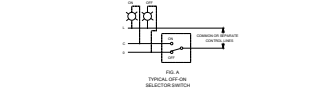
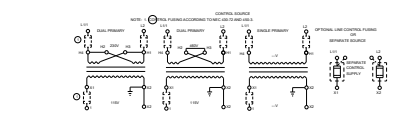
| POLES | 1 FOR 1/2 AC | 2 FOR 1/2 AC | 3 FOR 1/2 AC | 4 FOR 1/2 AC | 5 FOR 1/2 AC | 6 FOR 1/2 AC |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|
| 250V AC | 250V AC | 250V AC | 250V AC | 250V AC | 250V AC | 250V AC |
| 500V AC | 500V AC | 500V AC | 500V AC | 500V AC | 500V AC | 500V AC |
| 690V AC | 690V AC | 690V AC | 690V AC | 690V AC | 690V AC | 690V AC |

20 AMP, DC
 200V DC MAX. 2 POLES IN SERIES

20 AMP, AC
 250V AC MAX. 2 POLES IN SERIES

SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN THE RATED INTERRUPTING CAPACITY AT THE NOMINAL VOLTAGE SHOWN. THESE RATING INDICATORS BY A 50 AMP CIRCUIT BREAKER WIRING AS INDICATED IN THE WIRING OF NOT LESS THAN VOLTAGE SHOWN.

| ORDERING CODE | NO. OF POLES |
|---------------|--------------|
| 100000 | 24 |
| 100001 | 12 |
| 100002 | 6 |



CONNECTIONS TO CONTROL MODULES

| MODULE TERMINAL | CONNECT TO |
|-----------------|--------------------------------|
| 1 | NOT USED |
| 2 | CONTROL STOP FOR ACC. 47 |
| 3 | CONTROL STOP FOR ACC. 47 OR 48 |
| 4 | MODULE CONTROL VOLTAGE |
| 5 | CONTROL STOP FOR ACC. 47 OR 48 |
| 6 | TERMINAL 1 OF CONTROL MODULE |
| 7 | TERMINAL 2 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 UNDESIRABLY ENERGIZED SINGLE COIL OPERATOR MECHANICAL FULLY REVERSE OPEN & CLOSED POSITIONS.
 - CUSTOMER CONNECTIONS TO LINE & LOAD WILL ACCEPT THE SHOWN TO SHOWN CONTACT LINE. TORQUE LINE POLE CONNECTION TO 18 & 19.
 - CUSTOMER CONNECTIONS TO ELECTRONIC MODULES (ACC. 47 & 48) WILL ACCEPT ONLY 2-WIRE TO 2-WIRE CONTROL WIRE. TORQUE CONTROL TERMINALS TO 21 & 22.
 - CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

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