



Mechanically held lighting contactor, Contactor amp rating 20Amp 0NC - 10NO 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
<b>General technical data</b>	
weight [lb]	9 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
<b>Contactor</b>	
size of contactor	20 Amp
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	
• 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
<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	
• 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
<b>Enclosure</b>	
degree of protection NEMA rating of the enclosure	NEMA 4x 304 stainless steel enclosure

design of the housing	dustproof, waterproof & resistant to corrosion
<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 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
<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
maximum short-circuit current breaking capacity (I <sub>cu</sub> )	
• 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:CLMSB10208>

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

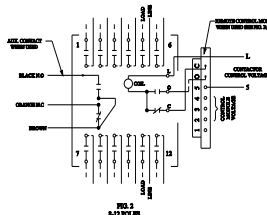
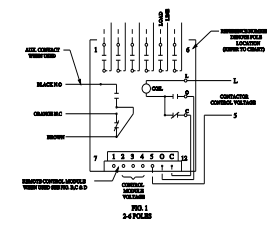
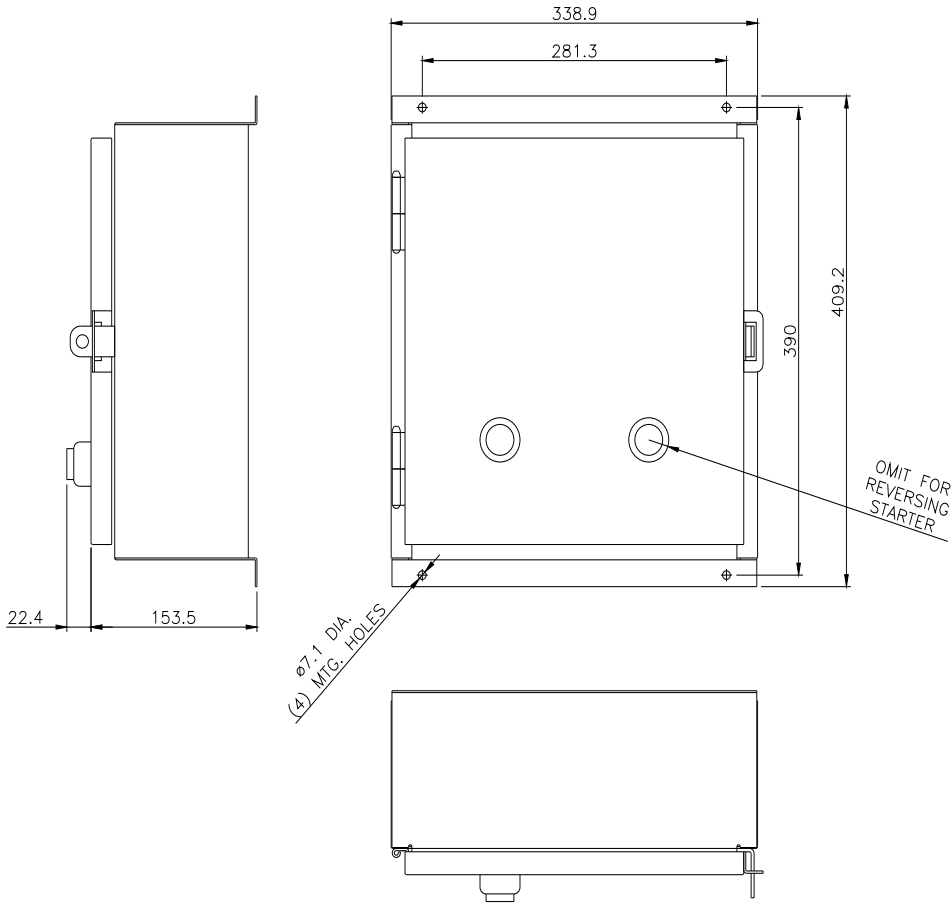
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB10208>

**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:CLMSB10208&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLMSB10208&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLMSB10208/certificate>



**CONTACT POLES LOCATION CHART**

POLES	LOCATION
1	2, 5, 8
2	3, 7, 9, 5
4	2, 3, 4, 8, 5
6	1-6
8	1-6, 8, 11
10	1-6, 8, 10, 11
12	1-12

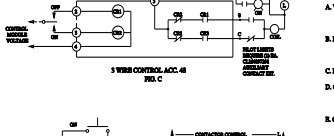
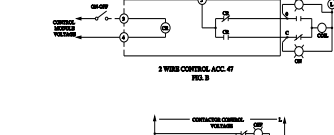
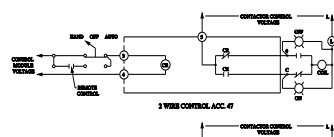
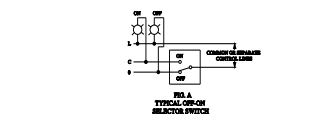
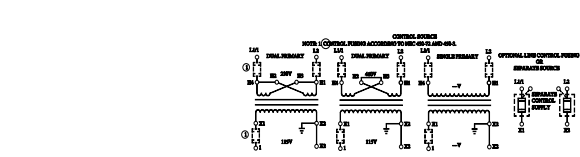
**MAIN CONTACT MAXIMUM VOLTAGE RATING OR CIRCUIT**

1 FOR 1	2 FOR 1	AMPERES CONTINUOUS
1 FOR 1	3 FOR 1	
250 AC	250 AC	50
277 AC	480 AC	30
480 AC	600 AC	20
600 AC	600 AC	10

125V DC MAX. 1 POLES IN SERIES  
 250V DC MAX. 3 POLES IN SERIES

SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF INTERRUPTING NOT MORE THAN THE RATED INTERRUPTING CAPACITY AT THE MAXIMUM VOLTAGE SHOWN BELOW. THIS INTERRUPTING CAPACITY IS A 50 AMP CIRCUIT BREAKER. EXCEEDING THESE INTERRUPTING RATINGS OF POLES IN SERIES VALUES APPLY.

MAXIMUM RMS AMPERES	MAXIMUM AC VOLTS
25,000	250
14,000	480
10,000	600



**CONNECTIONS TO CONTROL MODULES**

MODULE TERMINAL	CONNECT TO
1	NOT USED
2	CONT. STATION FOR ACC. 48 & 49
3	CONT. STATION FOR ACC. 48 & 49
4	INDETERMINATE VOLTAGE*
5	CONTRACTOR CONTROL VOLTAGE
6	TERMINAL O OF CONTACTOR
7	TERMINAL C OF CONTACTOR

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

- GENERAL NOTES**
- WIRE CONTACTOR & LINE VOLTAGE ARE THE SAME. THE CONTACTOR CONTROL VOLTAGE CAN BE DERIVED FROM THE LINE POLES OF THE CONTACTOR FRAME.
  - MAIN CONTACTOR AND STOP/REVERSE CONTACTOR CONTROL LINES AS SHOWN. USE A FUSED BLOW-OUT SWITCH (SEE WITH CONTACTOR CLOSING).
  - LINE & LOAD TERMINALS ARE REVERSIBLE.
  - CONTACTOR AND BREAKER TERMINAL BLOCKS WITH MOMENTARILY INCREASED SINGLE COIL OPERATOR MECHANICALLY TRIP IN BOTH OPEN & CLOSED POSITIONS.
  - CONTROL CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 18 AWG TO 14 AWG COPPER WIRE THROUGH LUGS.
  - CONTROL CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 14, 16, OR 18 AWG COPPER WIRE THROUGH LUGS. COPPER WIRE THROUGH CONTACT TERMINALS TO 21 in. in.
  - CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

24306100401

last modified:

1/25/2022

