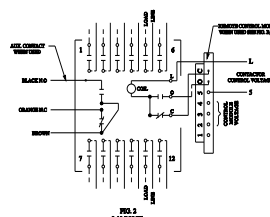
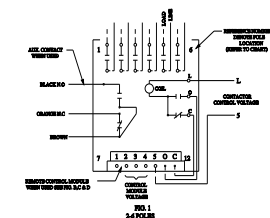
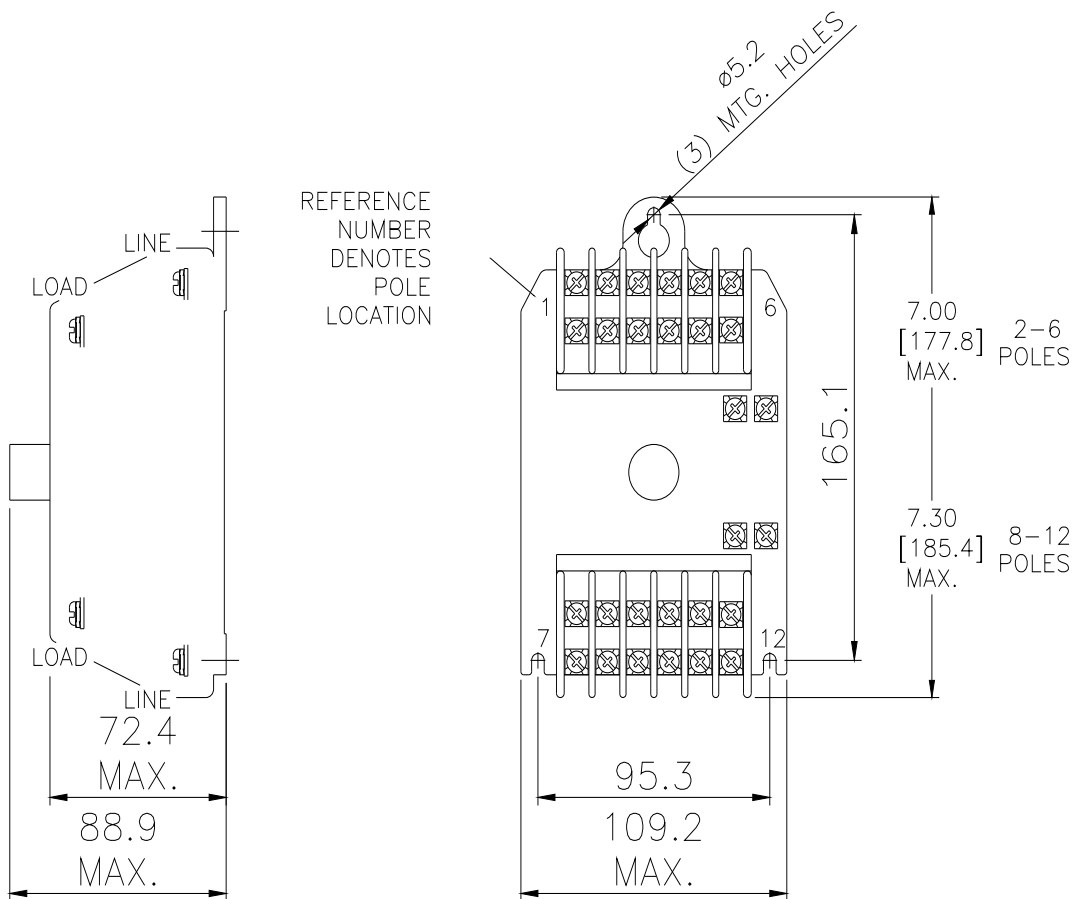




Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 4 N.O. poles, Non-combination type, Enclosure NEMA type (open), No enclosure

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	4
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	110 ... 120 V
• at AC at 60 Hz rated value	110 ... 120 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	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 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 (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
<b>Further information</b>	
<b>Industrial Controls - Product Overview (Catalogs, Brochures,...)</b> <a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a>	
<b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM42031">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM42031</a>	
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLM42031">https://support.industry.siemens.com/cs/US/en/ps/US2:CLM42031</a>	
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM42031&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM42031&amp;lang=en</a>	
<b>Certificates/approvals</b> <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:CLM42031/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:CLM42031/certificate</a>	



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, 10 & 11
12	1-12

MAIN CONTACT MAXIMUM VOLTAGE  
RATINGS (OPEN OR CLOSED)

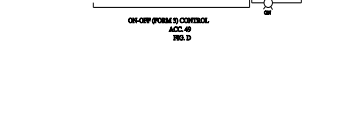
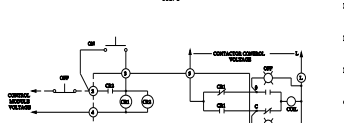
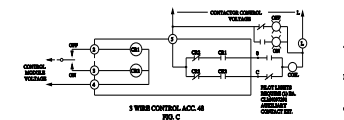
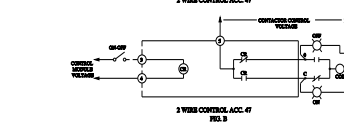
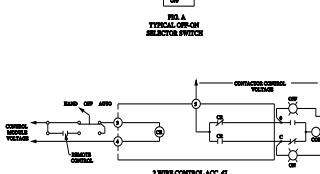
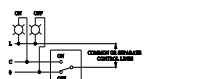
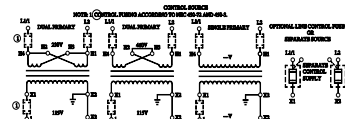
POLES TO LOAD	AMPERES CONTINUOUS
1 POLE 1	
2 POLE 1	
20 AC	200 AC
277 AC	400 AC
240 AC	600 AC

POLES TO LOAD	AMPERES CONTINUOUS
1 POLE 1	
2 POLE 1	
20 AC	200 AC
277 AC	400 AC
240 AC	600 AC

30 AMP. DC  
GENERAL 125V DC MAX. 1 POLE IN SERIES  
200V DC MAX. 1 POLE IN SERIES

SWITCH IS SUITABLE FOR USE IN A CIRCUIT  
CAPABLE OF DELIVERING NOT MORE THAN THE  
RMS SYMMETRICAL CURRENT AT THE MAXIMUM  
VOLTAGE INDICATED. WHEN USED IN A  
CIRCUIT WITH A SHORT CIRCUIT CURRENT  
EXCEEDING THE RATING OF THE LINE TRIP  
VALVES SHOULD BE USED.

MAXIMUM TIME	MAXIMUM AC
AMPERES	VOLTS
25,000	250
15,000	400
10,000	600



MODULE TERMINAL	CONNECT TO
1	NOT USED
2	CONTROL VOLTAGE FOR ACC. 48 & 49
3	CONTROL VOLTAGE FOR ACC. 48 & 49
4	CONTROL VOLTAGE FOR ACC. 48 & 49
5	CONTROL VOLTAGE FOR ACC. 48 & 49
6	CONTROL VOLTAGE FOR ACC. 48 & 49
7	CONTROL VOLTAGE FOR ACC. 48 & 49
8	CONTROL VOLTAGE FOR ACC. 48 & 49
9	CONTROL VOLTAGE FOR ACC. 48 & 49
10	CONTROL VOLTAGE FOR ACC. 48 & 49
11	CONTROL VOLTAGE FOR ACC. 48 & 49
12	CONTROL VOLTAGE FOR ACC. 48 & 49

\* 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 POLS OF THE CONTACTOR SWITCH.
- MAIN CONTACTS ARE SHOWN IN OPEN POSITION WITH  
CONTROL LINE DISCONNECTED. SEE 24 VDC RELAY  
(SWITCH SHOWN WITH CONTACTS CLOSED).
- LINE & LOAD TERMINALS ARE REVERSIBLE.
- CONTACTS ARE BREAK BEFORE, DOUBLE BREAK, WITH  
MOMENTARILY INTERRUPTED, DOUBLE COIL, OPERATOR  
MECHANICALLY HELD IN BOTH OPEN & CLOSED POSITIONS.
- CONTROL CONNECTIONS TO LINE & LOAD WILL ACCEPT  
NO. 10 AWG TO 14 AWG COPPER WIRE. TORQUE LINE  
POLE CONNECTION TO 18 IN. IN.
- CONTROL CONNECTIONS TO ELECTRONIC MODULES (ACC.  
48, 49, OR 49) WILL ACCEPT NO. 22 AWG TO 24 AWG  
COPPER WIRE. TORQUE CONTROL TERMINALS TO 21 IN. IN.
- CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

24306100401

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