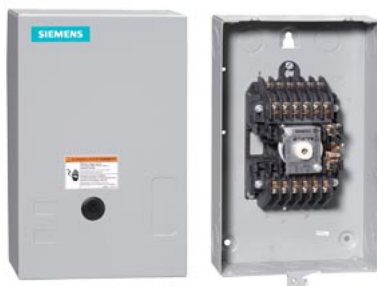
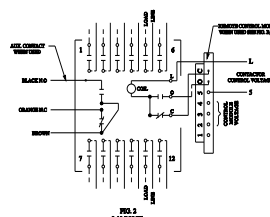
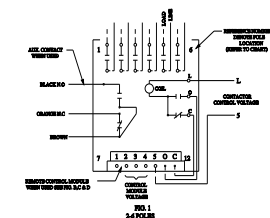
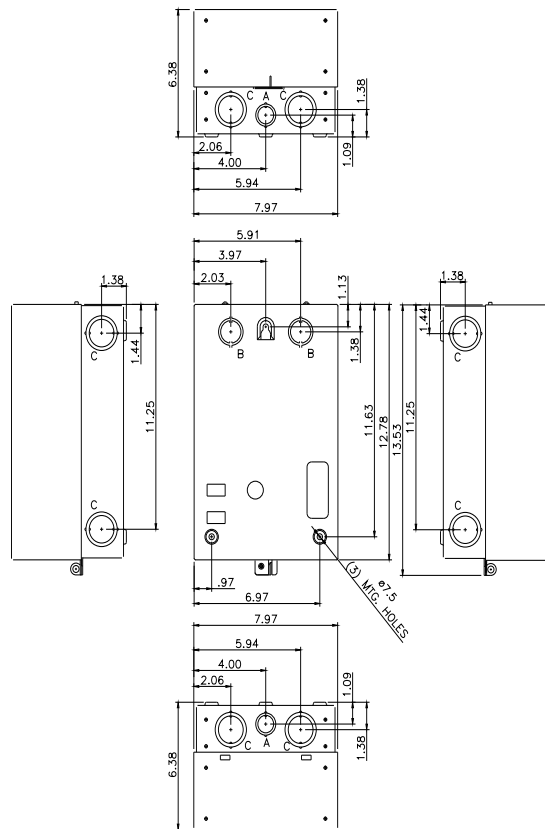


Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 4 N.O. poles, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



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]	14 × 8 × 7 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
Contactor	
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
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	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
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 1 enclosure

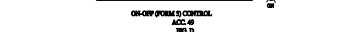
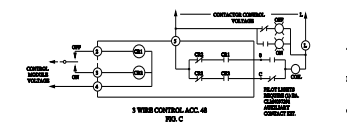
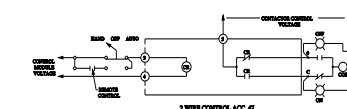
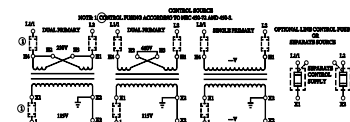
design of the housing	indoors, usable on a general basis
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply	18 ... 18 lbf·in
type of connectable 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 (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:CLM1B04120	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B04120	
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:CLM1B04120&lang=en	
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B04120/certificate	



POLE	LOCATION
2	2 & 5
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 LOAD		AMPERE CONTINUOUS	
1 FOR 1	2 FOR 1		
250 AC	250 AC	20	TUNGSTEN
277 AC	480 AC	20	BALLAST
480 AC	600 AC	20	GENERAL

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



CONNECTIONS TO CONTROL MODULES	
MODULE TERMINAL	CONNECT TO:
1	NOT USED
2	CONT. STATION FOR ACC. 48 & 49
3	CONT. STATION FOR ACC. 47 & 48
4	MODULE CONTROL VOLTAGE *
5	CONTACTOR CONTROL VOLTAGE
6	TERMINAL OF THE CONTACTOR
7	TERMINAL OF THE CONTACTOR

GENERAL NOTES

- A. WIRE CONTACTOR & LINE VOLTAGE ARE THE SAME, THE CONTACTOR CONTACTS, VOLTAGE CAN BE DERIVED FROM THE VOLTAGE OF THE CONTACTOR.
- B. MAIN CONTACTS ARE BROKEN IN FIRST POSITION WITH CONTACT LINE DS-BEING OPENED. SEE RATHON BELOW. (SWITCH SEPARATED WITH CONTACTS CLOSED)
- C. LINE & LOAD TERMINALS ARE REVERSIBLE.
- D. CONTACTS ARE SINGLE THROW, DOUBLE BREAKER, WITH MOMENTARILY BROKEN SINGLE COIL OPERATOR. (SWITCH LINE DS-BEING OPENED)
- E. CONTACTOR CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 10AWG TO 10AWG COPPER WIRE, THOROUGH LINE COIL CONNECTION TO 1 in. h.
- F. CUSTOMER CONNECTIONS TO ELECTRONIC MODULES (ACC. 4), & OR, WIRE WILL ACCEPT NO. 10AWG TO 10AWG COPPER WIRE, THOROUGH CONTACT TERMINALS TO 1 in. h.
- G. CONTROL MODULE & LINE WIRE SUPPLIED BY CUSTOMER.

Mouser Electronics

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Siemens:

[CLM1B04120](#)