



Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 3 N.O. poles, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

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	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 12 enclosure

design of the housing	dustproof and drip-proof for indoor use
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:CLM2B03120>

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

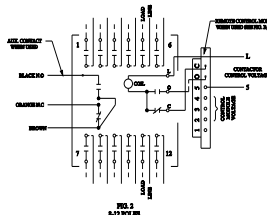
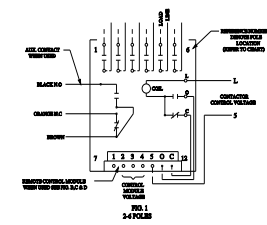
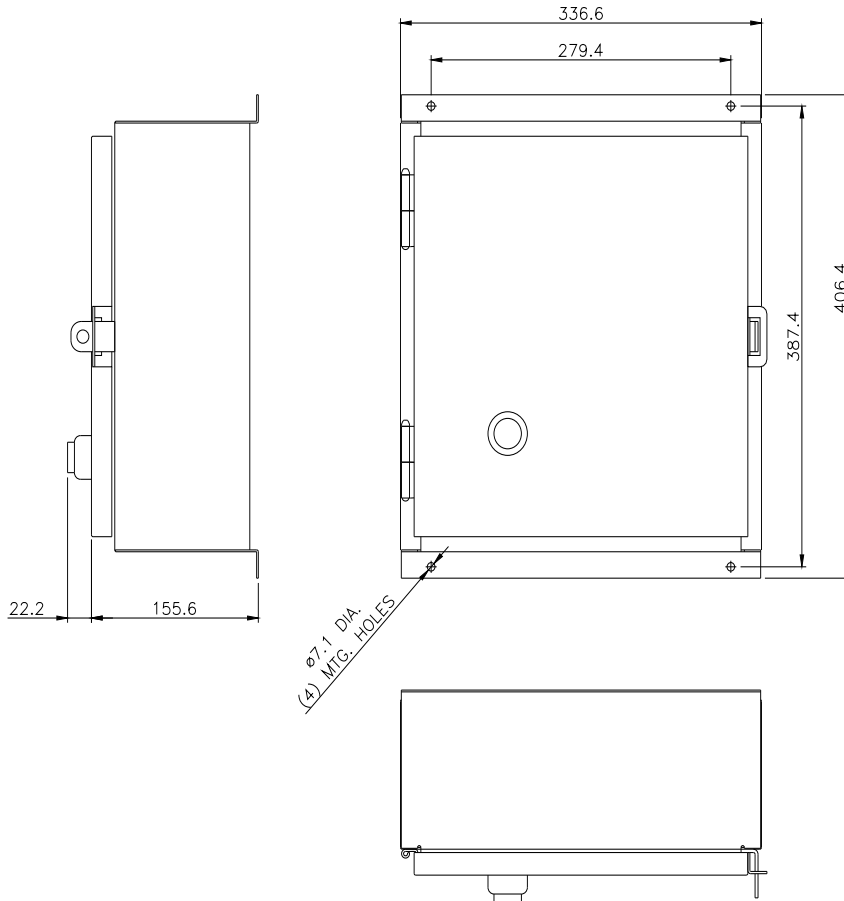
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2B03120>

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:CLM2B03120&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2B03120/certificate>



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

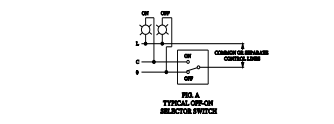
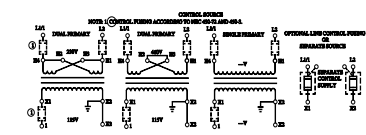
MAIN CONTACT MATRIX VOLTAGE RANGES OR CLASS		
POLES TO LOAD	2 FOR 1	AMPERES CONTINUOUS
20 AC	20 AC	50
27 AC	27 AC	30
48 AC	48 AC	15
60 AC	60 AC	10

127V DC MAX. 3 POLES IN SERIES
20V DC GENERAL

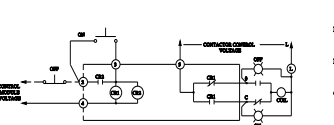
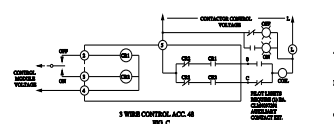
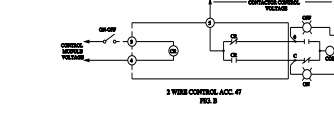
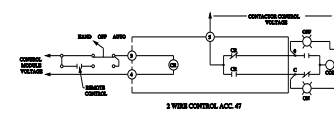
SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF INTERRUPTING NOT MORE THAN THE RATED STATIONARY CURRENT AT THE MAXIMUM VOLTAGE SHOWN BELOW. THIS IS LIMITED BY A 30 AMP CIRCUIT BREAKER. EXCEEDING THESE VALUES MAY BE DANGEROUS TO THE USER.

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

(4) 7.1 DIA. MTC HOLES



MODULE TERMINAL	CONNECT TO
1	NOT USED
2	CONT. STATION FOR ACC. 4 & 6
3	CONT. STATION FOR ACC. 6 & 8
4	MODULE CONTROL VOLTAGE
5	CONTRACTOR CONTROL VOLTAGE
6	TERMINAL O OF CONTRACTOR
7	TERMINAL C OF CONTRACTOR



- GENERAL NOTES**
- A. WHEN CONTACTS & LINE VOLTAGE ARE THE SAME, THE CONTACTOR CONTROL VOLTAGE CAN BE DERIVED FROM THE LINE POLES OF THE CONTACTOR FRAME.
 - B. MAIN CONTACTOR ARE SHOWN BY CONDUCTIVITY WITH CONTROL LINES AS SHOWN. USE A LAMP BELOW SWITCHES (SWITCHES SHOWN WITH CONTACTS CLOSED).
 - C. LINE & LOAD TERMINALS ARE REVERSIBLE.
 - D. CONTACTS ARE BREAK BEFORE MAKE WITH MOMENTARILY INCREASED TRIP & COIL OPERATOR MECHANICALLY TRIP IN BOTH OPEN & CLOSED POSITIONS.
 - E. CONTACTS CONNECTED TO LINE & LOAD WILL ACCEPT 100, 100, 100 TO 1000V AC, 50/60 HZ, 1000V DC.
 - F. CONTACTS CONNECTED TO ELECTRONIC MODULES (ACC. 45, 46, 48, 49) WILL ACCEPT NO. 22 AWG TO 12 AWG COPPER WIRE. TORQUE CONTACT TERMINALS TO 2.5 IN. LB.
 - G. CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

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last modified:

1/25/2022

