

Mechanically held lighting contactor, Contactor amp rating 30Amp 0NC \_ 8NO poles, 110VAC 50HZ/120VAC 60HZ coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



Figure similar

Product brand name	Class CLM
Design of the product	Magnetically latched lighting contactor
Special product feature	Energy efficient; Quiet operation
<b>General technical data</b>	
Weight [lb]	20 lb
Height x Width x Depth [in]	16 x 17 x 8 in
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	30 Amp
Number of NO contacts for main contacts	8
Number of NC contacts for main contacts	0
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Mechanical service life (switching cycles) of the main contacts typical	10000000

Contact rating of the main contacts of lighting contactor	<ul style="list-style-type: none"> <li>• at tungsten (1 pole per 1 phase) rated value</li> <li>• at tungsten (2 poles per 1 phase) rated value</li> <li>• at tungsten (3 poles per 3 phases) rated value</li> <li>• at ballast (1 pole per 1 phase) rated value</li> <li>• at ballast (2 poles per 1 phase) rated value</li> <li>• at ballast (3 poles per 3 phases) rated value</li> <li>• at resistive load (1 pole per 1 phase) rated value</li> <li>• at resistive load (2 poles per 1 phase) rated value</li> <li>• at resistive load (3 poles per 3 phases) rated value</li> </ul>	30A @277V 1p 1ph 30A @480V 2p 1ph 30A @480V 3p 3ph 30A @347V 1p 1ph 30A @600V 2p 1ph 30A @600V 3p 3ph 30A @347V 1p 1ph 30A @600V 2p 1ph 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 V	
• at AC at 60 Hz rated value	120 V	
Apparent pick-up power of magnet coil at AC	820 V·A	
Apparent holding power of magnet coil at AC	80 V·A	
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 1 enclosure	
Design of the housing	Indoor general purpose use	
<b>Mounting/wiring</b>		
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 ... 20 lbf·in	
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	2x (14 ... 8 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 ... 20 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	2x (14 ... 8 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	8 ... 12 lbf·in
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded	2x (16 ... 12 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 508A

#### 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:CLM1C08120>

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

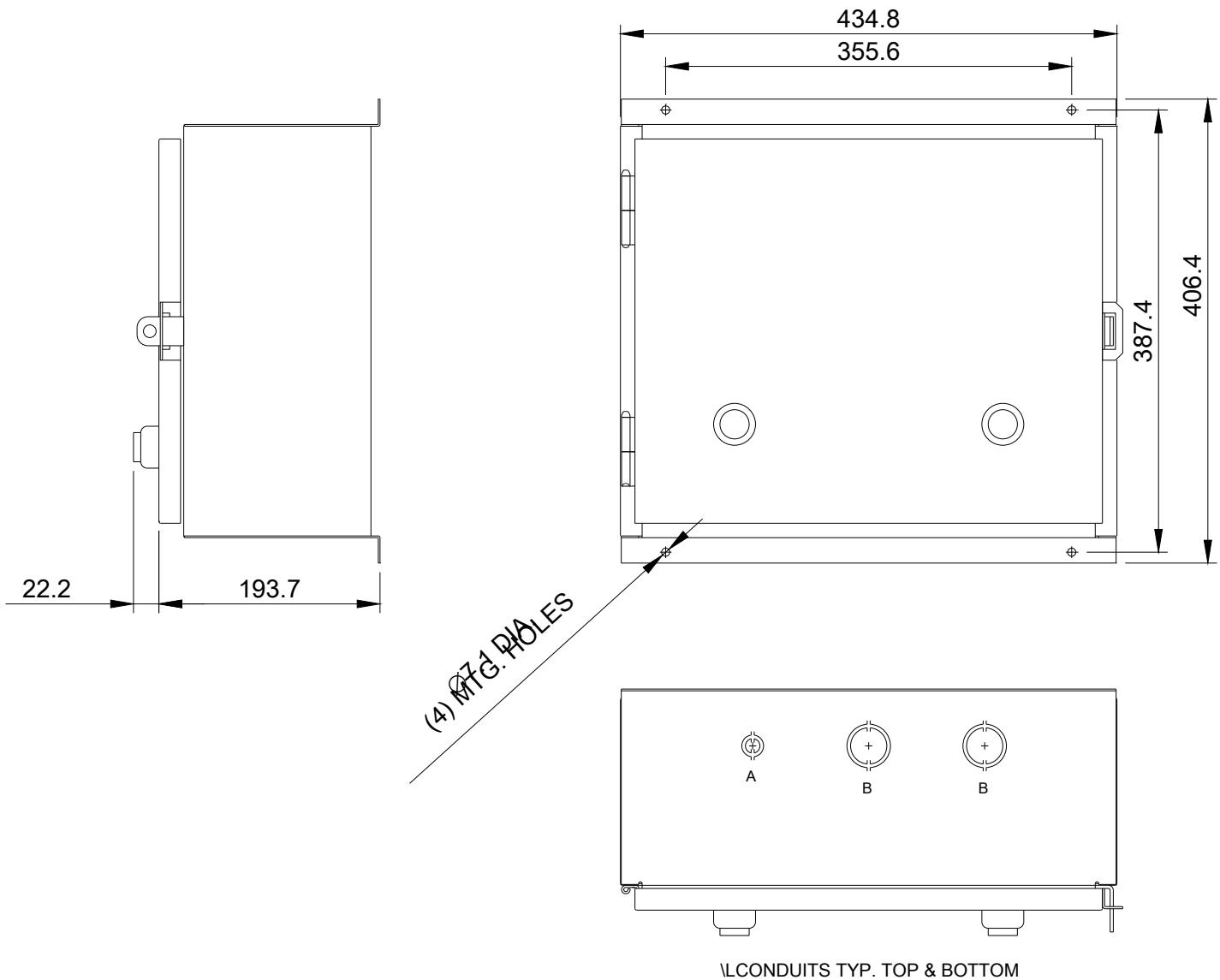
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1C08120>

**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:CLM1C08120&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1C08120&lang=en)

**Certificates/approvals**

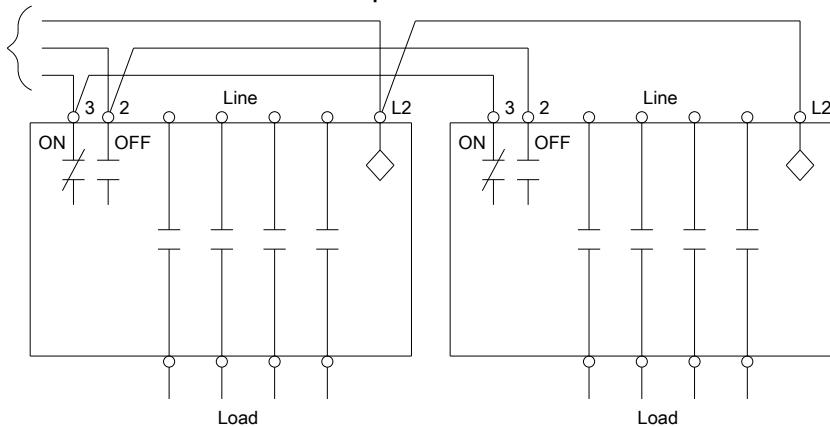
<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1C08120/certificate>



LETTER	CONDUIT SIZE
A	Ø12.7 & Ø19 CONDUIT
B	Ø31.8 & Ø38.1 CONDUIT

To  
Control  
Devices

Wiring Diagram Class CLM  
30-60 Amp 8 Pole



Optional auxiliary contacts are not shown.

E87010-A0410-T009-A1-CLM-3

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