SIEMENS

Data sheet US2:CLM0E03120

Mechanically held lighting contactor, Contactor amp rating 100Amp 0NC _ 3NO poles, 110VAC 50HZ/120VAC 60HZ coil, Non-combination type, Enclosure NEMA type open, No enclosure

Figure similar

General technical data	
Weight [lb]	7 lb
Height x Width x Depth [in]	6.86 × 4.78 × 6.98 in
Protection against electrical shock	Not finger-safe
Installation altitude [ft] at height above sea level maximum	6560 ft
Country of origin	USA

Contactor	
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
Mechanical service life (switching cycles) of the main contacts typical	5000000
Contact rating of the main contacts of lighting contactor	
• at tungsten (1 pole per 1 phase) rated value	100A @277V 1p 1ph
• at tungsten (2 poles per 1 phase) rated value	100A @480V 2p 1ph

• at tungsten (3 poles per 3 phases) rated value	100A @480V 3p 3ph
• at ballast (1 pole per 1 phase) rated value	100A @347V 1p 1ph
• at ballast (2 poles per 1 phase) rated value	100A @600V 2p 1ph
• at ballast (3 poles per 3 phases) rated value	100A @600V 3p 3ph
• at resistive load (1 pole per 1 phase) rated value	100A @347V 1p 1ph
• at resistive load (2 poles per 1 phase) rated value	100A @600V 2p 1ph
• at resistive load (3 poles per 3 phases) rated value	100A @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 DC rated value	0 ... 0 V
• at AC at 60 Hz rated value	120 ... 120 V
• at AC at 50 Hz rated value	110 ... 110 V
Apparent pick-up power of magnet coil at AC	900 V·A
Apparent holding power of magnet coil at AC	200 V·A
Operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1

Enclosure	
Degree of protection NEMA rating of the enclosure	Open device (no enclosure)
Design of the housing	NA

Mounting/wiring	
Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage line-side	Box lug
Tightening torque [lbf·in] for supply	90 ... 100 lbf·in
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	1x (6 ... 1/0 AWG)
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	AL or CU
Type of electrical connection for load-side outgoing feeder	Box lug

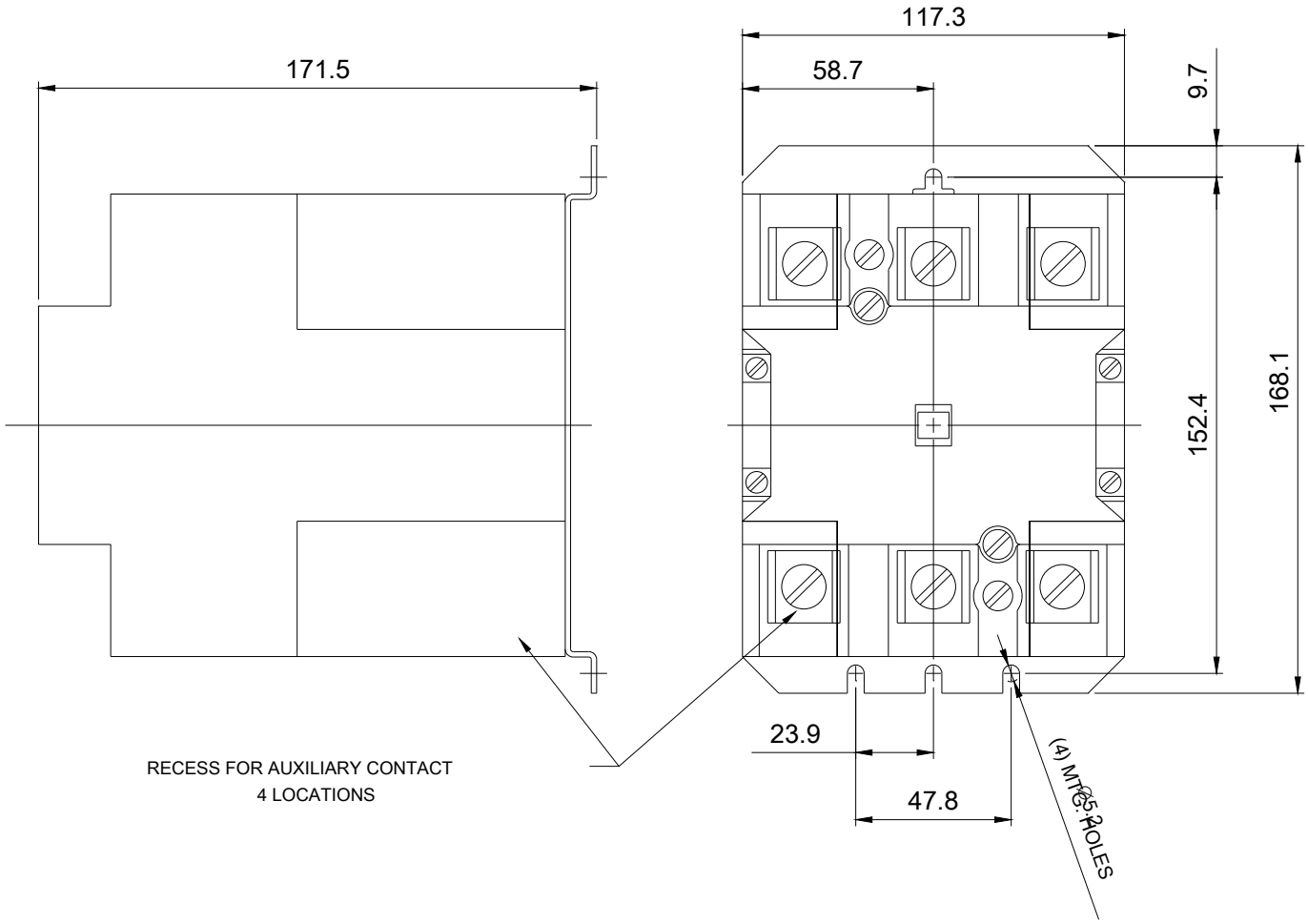
Tightening torque [lbf·in] for load-side outgoing feeder	90 ... 100 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (6 ... 1/0 AWG)
Temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder	AL or 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

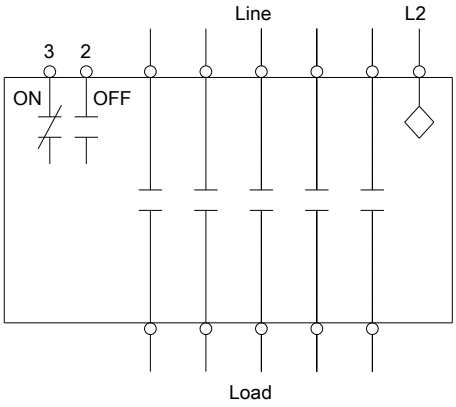
Design of the fuse link for short-circuit protection of the main circuit required	none
Design of the short-circuit trip	Thermal magnetic circuit breaker
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	5 kA
• at 480 V	5 kA
• at 600 V	5 kA

Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0E03120



Wiring Diagram Class CLM
30-200 Amp 2. 3. 4 and 5 Pole



Notes:

1. Dotted lines represent additional poles.
   Contactor may have 2. 3. 4 or 5 poles.
2. Optional auxiliary contacts are not shown.

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last modified: 08/07/2017