



Mechanically held lighting contactor, Contactor amp rating 200A, 3 normally open poles, 110VAC 50HZ/120VAC 60HZ Coil, Combination type, 200A Circuit breaker, Enclosure NEMA type 12, Dust/drip proof for indoors

product brand name	Class CM
design of the product	Magnetically latched lighting contactor with circuit breaker
special product feature	Energy efficient; Quiet operation
<b>General technical data</b>	
weight [lb]	215 lb
Height x Width x Depth [in]	46 × 20 × 10 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
<b>Contactor</b>	
size of contactor	200 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
mechanical service life (operating 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	200A @277V 1p 1ph
• at tungsten (2 poles per 1 phase) rated value	200A @480V 2p 1ph
• at tungsten (3 poles per 3 phases) rated value	200A @480V 3p 3ph
• at ballast (1 pole per 1 phase) rated value	200A @347V 1p 1ph
• at ballast (2 poles per 1 phase) rated value	200A @600V 2p 1ph
• at ballast (3 poles per 3 phases) rated value	200A @600V 3p 3ph
• at resistive load (1 pole per 1 phase) rated value	200A @347V 1p 1ph
• at resistive load (2 poles per 1 phase) rated value	200A @600V 2p 1ph
• at resistive load (3 poles per 3 phases) rated value	200A @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	900 VA
apparent holding power of magnet coil at AC	200 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
Circuit Breaker	
type of the motor protection	Circuit breaker with thermal and fixed magnetic trip
operational current of motor circuit breaker rated value	200 A
adjustable current response value current of instantaneous short-circuit trip unit	1100 ... 2500 A
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (6 AWG ... 350 Kcmil) or 1x (4 AWG ... 350 Kcmil)
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	275 ... 300 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	1x (4 AWG ... 300 kcmil)
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 for AWG cables 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 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](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CMBF20120>

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

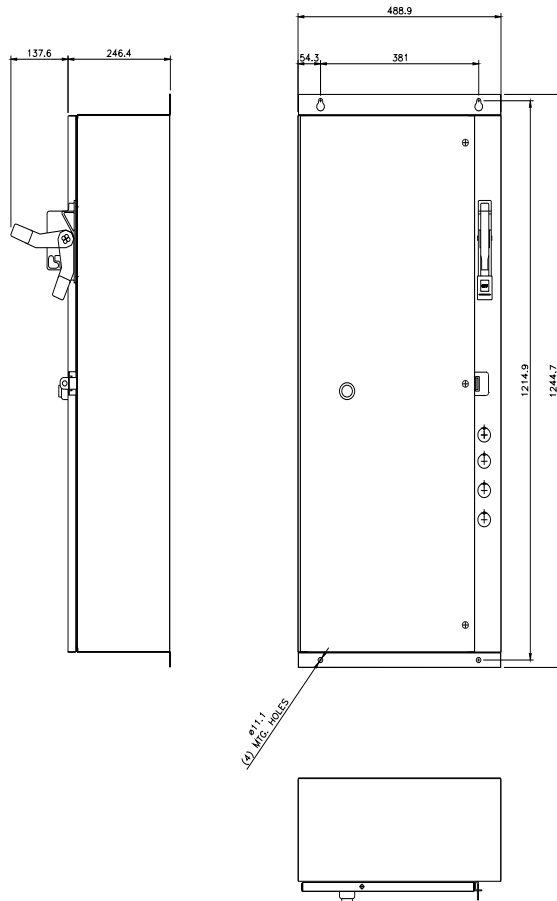
<https://support.industry.siemens.com/cs/US/en/ps/US2:CMBF20120>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

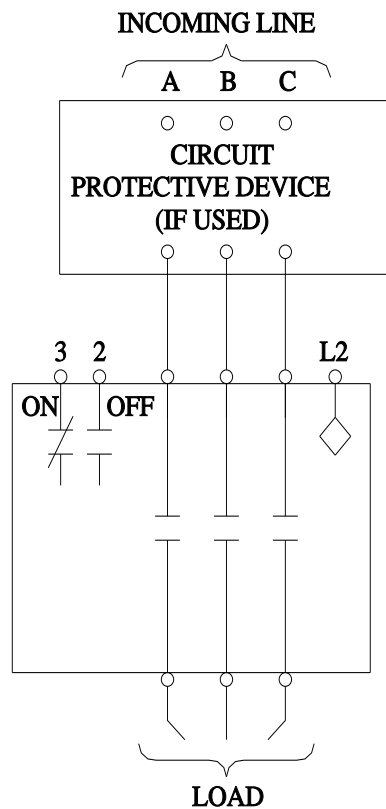
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:CMBF20120&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CMBF20120&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:CMBF20120/certificate>



# Wiring Diagram Class CLM Combination Type 30-300 Amp 3 Pole



E87010-A0412-T009-A1-CLM

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