SIEMENS

Data sheet US2:CLM0F05208



Mechanically held lighting contactor, Contactor amp rating 200A, 0 N.C. / 5 N.O. poles, 208VAC 60HZ coil, Non-combination type, Enclosure NEMA type (open), No enclosure

design of the product special product feature Energy efficient; Quiet operation General technical data weight (Ib) Height x Width x Depth (In) touch protection against electrical shock installation altitude (It) at height above sea level maximum country of origin country of origin size of contactor size of contactor size of contactor number of NC contacts for main contacts number of NC contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts of at tungsten (1 pole per 1 phase) rated value at tungsten (2 poles per 1 phase) rated value at ballast (2 poles per 1 phase) rated value at ballast (2 poles per 1 phase) rated value at tallast (2 poles per 1 phase) rated value at tesistive load (1 pole per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 phase) rated value at resistive load (3 poles per 4 pha	product brand name	Class CLM
weight [Ib] 29 lb Height x Width x Depth [in] 7.51 x 8.86 x 6.98 in touch protection against electrical shock Not finger-safe installation altitude (Fig at height above sea level maximum 6560 ft country of origin USA Contactor size of contactor 200 Amp number of NO contacts for main contacts 0 0 operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical 1 thungsten (1 pole per 1 phase) rated value 200A @277V 1p 1ph at thungsten (2 poles per 1 phase) rated value 200A @480V 2p 1ph at ballast (1 pole per 1 phase) rated value 200A @347V 1p 1ph at latlast (3 poles per 3 phases) rated value 200A @360V 2p 1ph at latlast (3 poles per 3 phases) rated value 200A @360V 2p 1ph at latlast (3 poles per 3 phases) rated value 200A @600V 2p 1ph at latlast (3 poles per 3 phases) rated value 200A @600V 2p 1ph at latlast (3 poles per 3 phases) rated value 200A @600V 2p 1ph at latlast (3 poles per 3 phases) rated value 200A @600V 2p 1ph at lesistive load (1 pole per 1 phase) rated value 200A @600V 2p 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 2p 1ph at resistive load (3 poles per 1 phase) rated value 200A @600V 3p 3ph at resistive load (3 poles per 1 phase) rated value 200A @600V 3p 3ph at resistive load (3 poles per 1 phase) rated value 200A @600V 3p 3ph Auxillary contact number of NO contacts for auxillary contacts 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	design of the product	Magnetically latched lighting contactor
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Height X Width x Depth [in] touch protection against electrical shock Installation altitude [ft] at height above sea level maximum fose of the country of origin USA Contactor size of contactor number of NO contacts for main contacts number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical contact rating of the main contacts of lighting contactor • at tungsten (1 pole per 1 phase) rated value • at tungsten (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at taballast (2 poles per 1 phase) rated value • at taballast (2 poles per 1 phase) rated value • at tresistive load (1 pole per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (5 poles per 1 phase) rated value • at resistive load (5 poles per 1 phase) rated value • at resistive load (5 poles per 1 phase) rated value • at Ca to 6 Hz rated value volumer of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts volumer of NO contacts for auxiliary contacts volumer of NO contacts for auxiliary contacts volumer of NO	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum (6560 ft (2500 tactor)) Contactor	weight [lb]	29 lb
installation altitude [ft] at height above sea level maximum country of origin USA Contactor size of contactor number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical contact rating of the main contacts of lighting contactor • at tungsten (1 pole per 1 phase) rated value • at tungsten (2 poles per 1 phase) rated value • at ballast (1 pole per 1 phase) rated value • at ballast (1 pole per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • Auxiliary contact number of NC contacts for auxiliary contacts at AC at 60 Hz rated value apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil	Height x Width x Depth [in]	7.51 × 6.86 × 6.98 in
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size of contactor number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical contact rating of the main contacts of lighting contactor • at tungsten (1 pole per 1 phase) rated value • at tungsten (2 poles per 1 phase) rated value • at tungsten (3 poles per 3 phases) rated value • at ballast (1 pole per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (3 poles per 3 phases) rated value • at ballast (3 poles per 3 phases) rated value • at ballast (3 poles per 1 phase) rated value • at ballast (3 poles per 3 phases) rated value • at ballast (3 poles per 1 phase) rated value • at ballast (3 poles per 3 phases) rated value • at resistive load (1 pole per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (2 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (4 poles per 1 phase) rated value • at resistive load (5 poles per 1 phase) rated value • at resistive load (6 poles per 1 phase) rated value • at resistive load (7 poles per 1 phase) rated value • at at resistive load (8 poles per 3 phases) rated value • at at resistive load (8 poles per 1 phase) rated value • at at resistive load (8 poles per 1 phase) rated value • at at resistive load (8 poles per 1 phase) rated value • at at resistive load (8 poles per 1 phase) rated value • at at resistive load (8 poles per 1 phase) rated value • at at resisti	country of origin	USA
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operating voltage for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical contact rating of the main contacts of lighting contactor • at tungsten (1 pole per 1 phase) rated value • at tungsten (2 poles per 1 phase) rated value • at tungsten (2 poles per 3 phases) rated value • at tungsten (3 poles per 3 phases) rated value • at ballast (1 pole per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at ballast (2 poles per 1 phase) rated value • at resistive load (1 pole per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (2 poles per 1 phase) rated value • at resistive load (3 poles per 1 phase) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (3 poles per 3 phases) rated value • at resistive load (5 poles per 1 phase) rated value • at resistive load (6 poles per 1 phase) rated value • at resistive load (6 poles per 1 phase) rated value • at resistive load (7 poles per 1 phase) rated value • at resistive load (8 poles per 3 phases) rated value • at resistive load (8 poles per 3 phases) rated value • at resistive load (8 poles per 3 phases) rated value • at resistive load (8 poles per 3 phases) rated value • at resistive load (8 poles per 1 phase) rated value • at Resistive load (8 poles per 1 phase) rated value • at Resistive load (8 poles per 1 phase) rated value • at Resistive load (8 poles per 1 phase) rated value • at Resistive load (8 poles per 1 phase) rated value • at Resistive load (8 poles per 1 phase) rated value • at resistive load (8 poles per 1 phase) rated value • at resistive load (8 poles per 1 phase) rated value • at resistive load (8 poles per 1 phase) rated value • at resistive load (8 poles per 1 phase) rated value • at resistive	number of NO contacts for main contacts	5
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at ballast (2 poles per 1 phase) rated value at ballast (3 poles per 3 phases) rated value at resistive load (1 pole per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value 200A @600V 2p 1ph at resistive load (3 poles per 3 phases) rated value 200A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil	 at tungsten (3 poles per 3 phases) rated value 	200A @480V 3p 3ph
at ballast (3 poles per 3 phases) rated value at resistive load (1 pole per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value 200A @600V 2p 1ph at resistive load (3 poles per 3 phases) rated value 200A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil	 at ballast (1 pole per 1 phase) rated value 	200A @347V 1p 1ph
 at resistive load (1 pole per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value 200A @600V 2p 1ph at resistive load (3 poles per 3 phases) rated value 200A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.85 1.1 	 at ballast (2 poles per 1 phase) rated value 	200A @600V 2p 1ph
at resistive load (2 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value 200A @600V 2p 1ph 200A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil nate value 200A @600V 2p 1ph 200A @600V 3p 3ph AC AC 0 0 10 10 10 10 10 10 10 10	 at ballast (3 poles per 3 phases) rated value 	200A @600V 3p 3ph
 at resistive load (3 poles per 3 phases) rated value Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.85 1.1 	 at resistive load (1 pole per 1 phase) rated value 	200A @347V 1p 1ph
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 AC • at AC at 60 Hz rated value 208 V apparent pick-up power of magnet coil at AC 1300 VA apparent holding power of magnet coil at AC 130 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1	 at resistive load (2 poles per 1 phase) rated value 	200A @600V 2p 1ph
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0 10 10 10 10 10 10 10 10 10	 at resistive load (3 poles per 3 phases) rated value 	200A @600V 3p 3ph
number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil number of NO contacts for auxiliary contacts 0 NA Coil NA 208 V 1300 VA 1300 VA 1300 VA 085 1.1	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage o at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil number of total auxiliary contacts maximum AC NA 208 V 1300 VA 1300 VA 1300 VA 1300 VA 0085 1.1	number of NC contacts for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.85 1.1	number of NO contacts for auxiliary contacts	0
type of voltage of the control supply voltage out AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil aC 0.85 1.1	number of total auxiliary contacts maximum	4
type of voltage of the control supply voltage out of the control supply voltage out of the control supply voltage out of the control supply voltage 208 V apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.85 1.1	contact rating of auxiliary contacts of contactor according to UL	NA
control supply voltage • at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil magnet coil 208 V 1300 VA 130 VA 0.85 1.1	Coil	
 at AC at 60 Hz rated value apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.85 1.1 	type of voltage of the control supply voltage	AC
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 130 VA 0.85 1.1	control supply voltage	
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 130 VA 0.85 1.1	at AC at 60 Hz rated value	208 V
operating range factor control supply voltage rated value of magnet coil 0.85 1.1	apparent pick-up power of magnet coil at AC	1300 VA
magnet coil	apparent holding power of magnet coil at AC	130 VA
Enclosure		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
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
tightening torque [lbf·in] for supply	275 300 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1x (4 AWG 300 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 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	10 kA
• at 480 V	10 kA
• at 600 V	10 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:CLM0F05208

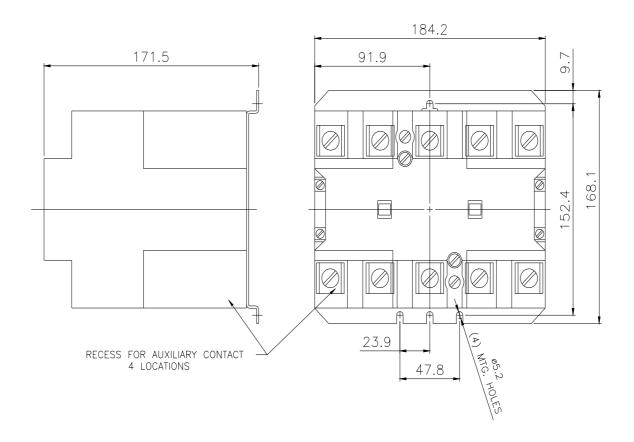
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0F05208

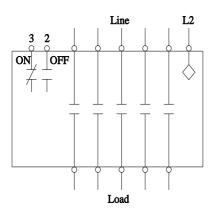
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM0F05208&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:CLM0F05208/certificate



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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