SIEMENS

Data sheet US2:CLM1F03024



Mechanically held lighting contactor, Contactor amp rating 200A, 0 N.C. / 3 N.O. poles, 24VAC 60HZ coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

design of the product special product feature Energy efficient; Quiet operation General technical data weight [ib] 113 lb 115 lb	product brand name	Class CLM
Weight [b] 113 lb	design of the product	Magnetically latched lighting contactor
weight [lb] Height x Width x Depth [in] 25 x 14 x 9 in touch protection against electrical shock Installation altitude [ft] at height above sea level maximum 6500 ft country of origin USA Contactor size of 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 mechanical service life (operating cycles) of the main contacts vipical 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 ballast (1 pole per 1 phase) rated value 200A @480V 2p 1ph • at ballast (2 poles per 1 phase) rated value 200A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 200A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 200A @600V 3p 3ph • at resistive load (1 pole per 1 phase) rated value 200A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 200A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 200A @600V 3p 3ph • at resistive load (3 poles per 3 phases) rated value 200A @600V 3p 3ph Auxiliary contact number of NO contacts for auxiliary contacts 0 1 NA Coll type of voltage of the control supply voltage • at AC at 60 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value at AC at 60 Hz rated	special product feature	Energy efficient; Quiet operation
Height x Width x Depth [in] touch protection against electrical shock An for enclosed products installation altitude [ft] at height above sea level maximum 6580 ft country of origin USA USA Contactor size of 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 \$0000000 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 theilast (3 poles per 3 phases) rated value • at theilast (3 poles per 3 phases) rated value • at ballast (2 poles per 1 phase) rated value • at theilast (3 poles per 3 phases) rated value • at theilast (3 poles per 3 phases) rated value • at theilast (2 poles per 1 phase) rated value • at resistive load (1 pole per 1 phase) rated value • at resistive load (2 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 (3 poles per 3 phase) rated value • at resistive load (3 poles per 3 phase) rated value • at resistive load (5 poles per 4 phase) rated value • at a resistive load (6 poles per 4 phase) rated value • at a resistive load (7 pole per 4 phase) rated value • at a resistive load (8 poles per 3 phase) rated value • at a resistive load (9 poles per 4 phase) rated value • at a resistive load (9 poles per 4 phase) rated value • at a resistive load (9 poles per 4 phase) rated value • at a resistive load (9 poles p	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum country of origin USA Contactor size of contactor size of 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 3 phases) rated value at tensistive 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 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 (5 poles per 3 phases) rated value at resistive load (5 poles per 3 phases) rated value at resistive load (5 poles per 3 phases) rated value at resistive load (6 poles per 3 phases) rated value at resistive load (6 poles per 4 phase) rated value at resistive load (6 poles per 5 phases) rated value at resistive load (6 poles per 6 phase) rated value at resistive load (7 poles per 7 phase) rated value at resistive load (8 poles per 7 phase) rated value at resistive load (9 poles per 6 phase) rated value at resistive load (8 poles per 7 phase) rated value Auxiliary contact number of NO contacts for auxiliary contacts onumber of NO contact	weight [lb]	113 lb
installation altitude [ft] at height above sea level maximum Contactor size of 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 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 tesistive load (1 pole per 1 phase) rated value • at tesistive load (1 pole per 1 phase) rated value • at tesistive load (1 pole per 1 phase) rated value • at resistive load (1 pole per 1 phase) rated value • at resistive load (1 pole 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 • 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 0 number of NO contacts for auxiliary contacts 0 0 0 0 0 0 0 0 0 0 0 0 0	Height x Width x Depth [in]	25 × 14 × 9 in
country of origin Contactor size of contactor number of NC contacts for main contacts number of NC contacts for main current circuit at AC at 60 Hz maximum mechanical service life (operating cycles) of the main contacts typical mechanical service life (operating cycles) of the main contacts typical eat tungsten (1 pole per 1 phase) rated value eat tungsten (2 poles per 1 phase) rated value eat tungsten (2 poles per 1 phase) rated value eat tungsten (3 poles per 3 phases) rated value eat ballast (1 pole per 1 phase) rated value eat ballast (1 pole per 1 phase) rated value eat ballast (2 poles per 1 phase) rated value eat ballast (3 poles per 3 phases) rated value eat ballast (3 poles per 3 phases) rated value eat resistive load (1 pole per 1 phase) rated value eat resistive load (2 poles per 1 phase) rated value eat resistive load (2 poles per 1 phase) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (3 poles per 3 phases) rated value eat resistive load (4 pole per 1 phase) rated value eat RC at 60 Hz rated value eat RC	touch protection against electrical shock	NA for enclosed products
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size of contactor number of NO 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 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 (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 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 • 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 4 phase) rated value • at resistive load (6 poles per 5 phases) rated value • at Resistive load (7 poles per 6 phases) rated value • at Resistive load (8 poles per 7 phases) rated value • at Resistive load (9 poles per 8 phases) rated value • at AC at 60 Hz rated value at AC • 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	country of origin	USA
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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 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 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 ballast (3 poles per 3 phases) 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 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 (5 poles per 1 phase) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (6 poles per 3 phases) rated value • at resistive load (7 poles per 3 phases) rated value • at AC at 6 Poles per 3 phases or at a value volumer of NC contacts for auxiliary contacts unmber of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of voltage of the control supply voltage • at AC at 60 Hz rated value apparent policy power of magnet coil at AC apparent policy power of magnet coil at AC operating range factor control supply	size of contactor	200 Amp
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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 ballast (3 poles per 3 phases) rated value • at at lates (3 poles per 3 phases) rated value • at resistive load (1 pole 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 (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 (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 mumber of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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 • at AC at 60 Hz rated value • at AC at 60 Hz rated value 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		600 V
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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 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 (3 poles per 3 phases) 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 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 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	 at tungsten (2 poles per 1 phase) rated value 	200A @480V 2p 1ph
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 operating range factor control supply voltage rated value of magnet coil 000 @600V 2p 1ph 200A @600V 3p 3ph 200A	 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 (2 poles per 1 phase) 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 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 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 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 onerating range factor control supply voltage rated value of magnet coil 	 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 operating range factor control supply voltage rated value of magnet coil 0.85 1.1	 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 operating range factor control supply voltage rated value of magnet coil 0 AC 200 VA 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 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 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 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 0 0 0 0 0 0 0 0 0 0 0 0	 at resistive load (3 poles per 3 phases) rated value 	200A @600V 3p 3ph
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contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage output 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 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 total auxiliary contacts maximum	4
type of voltage of the control supply voltage output 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 apparent coil AC 24 V 2900 VA 200 VA 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 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 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 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 0.85 1.1	at AC at 60 Hz rated value	24 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	900 VA
magnet coil	apparent holding power of magnet coil at AC	200 VA
		0.85 1.1
Enclosure	Enclosure	

degree of protection NEMA rating of the enclosure	NEMA 1 enclosure
design of the housing	indoors, usable on a general basis
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 (lcu)	
• 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:CLM1F03024

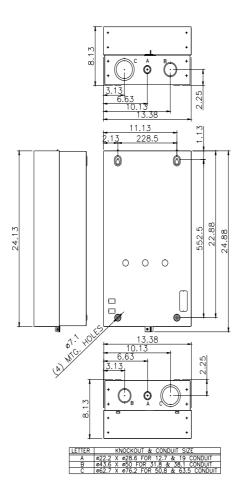
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1F03024

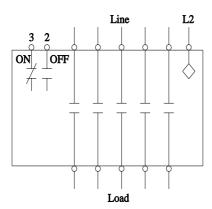
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM1F03024&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1F03024/certificate



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

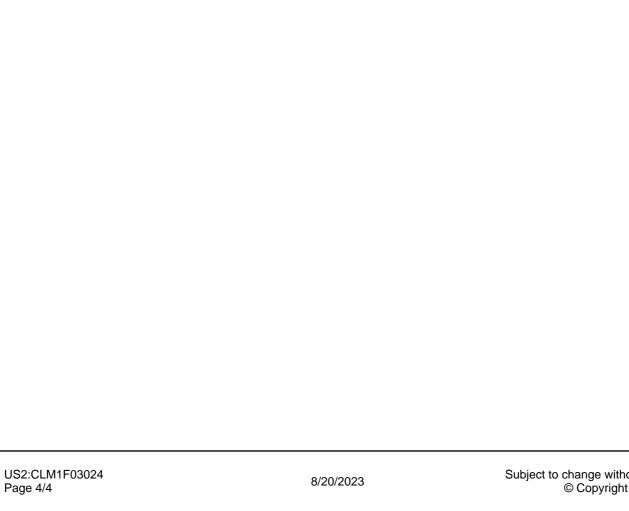


Notes:

- 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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