

Mechanically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 6 N.O. poles, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



Figure similar

product brand name	Class CLM
design of the product	Mechanically held lighting contactor
special product feature	Energy efficient; Quiet operation
General technical data	
weight [lb]	8 lb
Height x Width x Depth [in]	14 × 8 × 7 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
Contactor	
size of contactor	20 Amp
number of NO contacts for main contacts	6
number of NC contacts for main contacts	0
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
contact rating of the main contacts of lighting contactor	
<ul style="list-style-type: none"> ● 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 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 	20A @250V 1p 1ph 20A @250V 2p 1ph 20A @250V 3p 3ph 20A @347V 1p 1ph 20A @600V 2p 1ph 20A @600V 3p 3ph 30A @347V 1p 1ph 30A @600V 2p 1ph 30A @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	
<ul style="list-style-type: none"> ● at AC at 50 Hz rated value ● at AC at 60 Hz rated value 	208 ... 240 V 208 ... 240 V
apparent pick-up power of magnet coil at AC	600 VA
apparent holding power of magnet coil at AC	6 VA
operating range factor control supply voltage rated value	0.85 ... 1.1

of magnet coil	
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	Screw-type terminals
tightening torque [lbf-in] for supply	18 ... 18 lbf-in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	2x (18 ... 10 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 ... 18 lbf-in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	2x (18 ... 10 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	18 ... 18 lbf-in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (18 ... 10 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
breaking capacity maximum short-circuit current (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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:CLM1B06208>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B06208>

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:CLM1B06208&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:CLM1B06208/certificate>

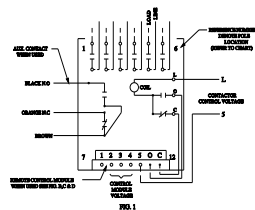


FIG. 1
24 POLES

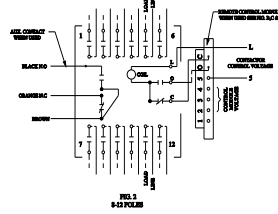


FIG. 2
8-12 POLES

CONTACT POLE LOCATION CHART

POLES	LOCATION
2	2 & 5
3	2, 3 & 5
4	2, 3, 4 & 5
6	1-4
8	1-6, 8 & 11
10	1-6, 8, 9, 10 & 11
12	1-12

**AUXILIARY CONTACT RATING
ACC. CLAMPING (SDT)
ACC. CLAMPING (SDT)
ACC. CLAMPING (SDT)**

10A, 10 EP
277VAC
65A, 10TDC
65A, 20VDC

**MAIN CONTACT MAXIMUM VOLTAGE
RATINGS OPEN OR CLOSED**

POLES TO LOAD	1 POLE	NUMBER CONTACTS
FOR 1	3POLE	
250 AC	250 AC	20
277 AC	400 AC	20
347 AC	480 AC	20

10 AMP, 250V AC
GENERAL
SDT DC MAX. 5 POLES IN SERIES

NOTES IN ADDITION TO THIS IN A CIRCUIT
CANNOT BE BELIEVED NOT MORE THAN FIVE
AND SYMMETRICAL CURRENT AT THE MAXIMUM
VOLTAGE SHOWN BELOW. THESE PROTECTED BY
A 10 AMP CIRCUIT BREAKER RATED AT THE
INTERMEDIATE RATING OF POLE LINE TRAY
VALUES SHOWN.

MAXIMUM TIME	MAXIMUM AC
AMPERES	VOLTS
23,000	250
14,000	480
10,000	480

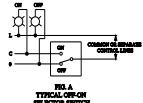
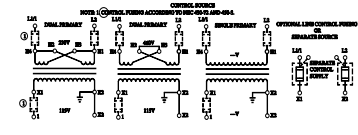
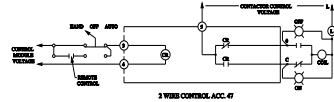
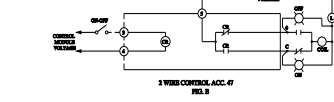


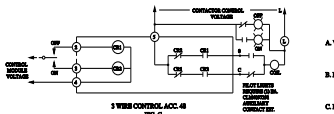
FIG. 4
TYPICAL ON-OFF
SELECTOR SWITCH



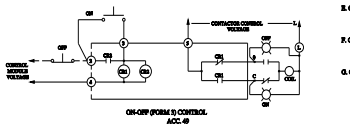
3 WIRE CONTROL, ACC. 47
FIG. 5



3 WIRE CONTROL, ACC. 47
FIG. 6



3 WIRE CONTROL, ACC. 48
FIG. 7



ON-OFF (FORM B) CONTROL,
ACC. 49
FIG. 8

CONNECTIONS TO CONTROL MODULES

MODULE TERMINAL	CONNECT TO:
1	NOT USED
2	CONT. STATION FOR ACC. 48 & 49
3	CONT. STATION FOR ACC. 47 & 48
4	MIDDLE CONTROL VOLTAGE*
5	CONTROL VOLTAGE
0	TERMINAL OF CONTACTOR
C	TERMINAL OF CONTACTOR

* FOR 24 VDC CONTROL MODULES
CONNECT TERMINAL TO RESISTIVE (1)

GENERAL NOTES

- A. WHEN CONTACTOR & LINE VOLTAGE ARE THE SAME, THE CONTACTOR CONTROL VOLTAGE CAN BE DERIVED FROM THE LINE POLES OF THE CONTACTOR SWITCH.
- B. MAIN CONTACTS ARE SHOWN IN OPEN POSITION WITH CONTROL LINES DISCONNECTED. SEE RATINGS BELOW. SWITCH SHOWN WITH CONTACTS CLOSED.
- C. LINE & LOAD TERMINALS ARE INTERFERABLE.
- D. CONTACTS ARE SINGLE THROW, DOUBLE BREAK, WITH MOMENTARILY INTERRUPTED SINGLE COIL, OPERATE MECHANICALLY HELD BY FORCE OPEN & CLOSED POSITIONERS.
- E. CUSTOMER CONNECTIONS TO LINE & LOAD WILL ACCEPT NO. 10 AWG TO 14 AWG COPPER WIRE. TORQUE LINE POLE CONNECTION TO 15 lb. ft.
- F. CUSTOMER CONNECTIONS TO ELECTRONIC MODULES (ACC. 47, 48, OR 49) WILL ACCEPT NO. 22 AWG TO 14 AWG COPPER WIRE. TORQUE CONTACT TERMINALS TO 15 lb. ft.
- G. CONTROL MODULE VOLTAGE SUPPLIED BY CUSTOMER.

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