SIEMENS

Data sheet US2:LCE01C108277A



Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 1 N.C. / 8 N.O. poles, 277V 60Hz / 240V 50Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

Figure similar

product brand name	Class LC
design of the product	Electrically held lighting contactor (convertible to mechanically held)
special product feature	Electrically held convertible to mechanically held; Power poles convertible between NO and NC
General technical data	
weight [lb]	11 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
ambient temperature [°F]	
 during storage 	-22 +149 °F
during operation	-13 +104 °F
ambient temperature	
 during storage 	-30 +65 °C
during operation	-25 +40 °C
country of origin	USA
Contactor	
size of contactor	30 Amp
number of NO contacts for main contacts	8
number of NC contacts for main contacts	1
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Type of main contacts	Silver alloy, double break
mechanical service life (switching cycles) of the main contacts typical	100000
contact rating of the main contacts of lighting contactor	
 at tungsten (1 pole per 1 phase) rated value 	20A @277V 1p 1ph
 at tungsten (2 poles per 1 phase) rated value 	20A @480V 2p 1ph
 at tungsten (3 poles per 3 phases) rated value 	20A @480V 3p 3ph
 at ballast (1 pole per 1 phase) rated value 	30A @347V 1p 1ph
 at ballast (2 poles per 1 phase) rated value 	30A @600V 2p 1ph
 at ballast (3 poles per 3 phases) rated value 	30A @600V 3p 3ph
 at resistive load (1 pole per 1 phase) rated value 	30A @600V 1p 1ph
 at resistive load (2 poles per 1 phase) rated value 	30A @600V 2p 1ph
• at resistive load (3 poles per 3 phases) rated value	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

Coll Vige of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 50 Hz rated value 240 V • at AC at 50 Hz rated value 277 V apparent pick-up power of magnet coil at AC 298 VA operating range factor control supply voltage rated value of magnet coil Fraction of magnet coil at AC operating range factor control supply voltage rated value of magnet coil fraction of magnet coil at AC design of the housing mounting position Surface mounting and installation Vertical Surface	contact rating of auxiliary contacts of contactor according	NA
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type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil material of the conductor at magnet coil coil to the fuse link for short-circuit protection of the main circuit required design of the fuse link for short-circuit current (lcu) at 24 kA at 480 V at 65 kA at 600 V	temperature of the conductor for supply maximum	75 °C
tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the sonductor at magnet coil maximum permissible material of the sonductor at magnet coil maximum permissible material of the sonductor at magnet coil maximum permissible adesign of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 480 V • at 600 V	material of the conductor for supply	CU
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cables for load-side outgoing feeder single or multi- stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil stightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip breaking capacity maximum short-circuit current (lcu) • at 240 V • at 480 V • at 600 V 25 kA	tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil stightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible 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 design of the short-circuit trip breaking capacity maximum short-circuit current (lcu) • at 240 V • at 480 V • at 600 V CU CU CU 24 kA • at 600 V	cables for load-side outgoing feeder single or multi-	2x (14 8 AWG)
type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible 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 design of the short-circuit trip breaking capacity maximum short-circuit current (lcu) • at 240 V • at 480 V • at 600 V Screw-type terminals Screw-type terminals 15 15 lbf-in 2x (18 14 AWG) CU CU CU Thermal magnetic circuit breaker		75 °C
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type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible 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 design of the short-circuit trip breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 65 kA • at 600 V	type of electrical connection of magnet coil	Screw-type terminals
coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip Thermal magnetic circuit breaker breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 65 kA • at 600 V	tightening torque [lbf·in] at magnet coil	15 15 lbf·in
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Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip Thermal magnetic circuit breaker breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V 25 kA		75 °C
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main circuit required design of the short-circuit trip breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V 25 kA	Short-circuit current rating	
breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V 24 kA 25 kA		100kA@600V (Class R or J 40A max)
 at 240 V at 480 V at 600 V 24 kA 65 kA 25 kA 	design of the short-circuit trip	Thermal magnetic circuit breaker
 at 480 V at 600 V 5 kA 25 kA 	breaking capacity maximum short-circuit current (Icu)	
• at 600 V 25 kA	• at 240 V	24 kA
	• at 480 V	65 kA
certificate of suitability NEMA ICS 2; UL 508	• at 600 V	25 kA
	certificate of suitability	NEMA ICS 2; UL 508

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:LCE01C108277A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C108277A

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:LCE01C108277A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C108277A/certificate

last modified: 1/25/2022 🖸