## **SIEMENS**

## Data sheet US2:LCE01C305480A



Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 3 N.C. / 5 N.O. poles, 460-480V 60Hz/440V 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]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
during operation	-13 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-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	5
number of NC contacts for main contacts	3
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	
<ul> <li>at tungsten (1 pole per 1 phase) rated value</li> </ul>	20A @277V 1p 1ph
<ul> <li>at tungsten (2 poles per 1 phase) rated value</li> </ul>	20A @480V 2p 1ph
• at tungsten (3 poles per 3 phases) rated value	20A @480V 3p 3ph
<ul> <li>at ballast (1 pole per 1 phase) rated value</li> </ul>	30A @347V 1p 1ph
<ul> <li>at ballast (2 poles per 1 phase) rated value</li> </ul>	30A @600V 2p 1ph
<ul> <li>at ballast (3 poles per 3 phases) rated value</li> </ul>	30A @600V 3p 3ph
• at resistive load (1 pole per 1 phase) rated value	30A @600V 1p 1ph
<ul> <li>at resistive load (2 poles per 1 phase) rated value</li> </ul>	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  Type of voltage of the control supply voltage  • at AC at 50 Hz rated value  • apparent pick-up power of magnet coil at AC  paparent pick up power of magnet coil at AC  paparent pick up power of magnet coil at AC  paparent pick up power of magnet coil at AC  paparent pick up power of magnet coil at AC  paparent pick up power of magnet coil at AC  paparent picking power of picking pic	contact rating of auxiliary contacts of contactor according	NA
type of voltage of the control supply voltage  at AC at 50 Hz rated value  at AC at 50 Hz rated value  440 V  480 480 V  apparent pick-up power of magnet coil at AC  248 VA  apparent pick-up power of magnet coil at AC  248 VA  apparent pick-up power of magnet coil at AC  248 VA  apparent pick-up power of magnet coil at AC  28 VA  operating range factor control supply voltage rated value  of magnet coil  for agenet coil  for agenet coil  easing of the housing  mounting vosition  Surface mounting and installation  Vertical  surface mounting and installation  ype of electrical connection for supply voltage line-side  at AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor cross-sections at time-side  stightening torque [brf-in] for load-side outgoing feeder  tightening torque [brf-in] for load-side outgoing feeder  stype of confectable conductor cross-sections at AWG  cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections of magnet  coll at AWG cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections of magnet  coll at AWG cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections of magnet  coll at AWG cables single or multi-stranded  temperature of the conductor or magnet coil  Screw-type terminals  tightening torque [brf-in] frangen coil  Screw-type terminals  15 brf-in  2x (14 8 AWG)  2x (14 8 AWG)  3brf-in  2x (14 8 AWG)  3c 35 ibrf-in  2x (14 8 AWG)  3c 35 ibrf-in  2x (14 8 AWG)  3c 35 ibrf-in  3c 35 ibrf	·	
control supply voltage  at AC at 50 Hz rated value  at AC at 60 Hz rated value  440 V  480 480 V  apparent pick-up power of magnet coil at AC  apparent pick-up power of magnet coil at AC  apparent holding power of magnet coil beat-aide outgoing feeder  To "C  apparent holding power of magnet coil at AC  apparent holding power of magnet coil beat-aide outgoin feeder coll at AVC cables for load-side outgoing feeder  To "C  apparent holding power of magnet coil beat-aide power of magnet coil at AVC  at at a apparent holding power of magnet coil at AVC  at a BOV  at 800 V	Coil	
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apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC as VA os 51.1    Inclosure	<ul> <li>at AC at 50 Hz rated value</li> </ul>	440 V
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil  Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position Tastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for supply Type of connectable conductor for load-side outgoing feeder Type of electrical connectable conductor for load-side outgoing feeder Type of electrical connection for load-side outgoing feeder maximum permissible Type of electrical connection of magnet coil Type of connectable conductor for load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrical connectable conductor or load-side outgoing feeder Type of electrica	at AC at 60 Hz rated value	460 480 V
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degree of protection NEMA rating of the enclosure design of the housing    Mounting/wiring   Indoors, usable on a general basis		0.85 1.1
design of the housing indoors, usable on a general basis indoors.  Vertical fastening method  Vertical  Screw-type terminals  2x (14 8 AWG)  2x (14 8 AWG	Enclosure	
mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 35 35 lbf-in type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at Nore temperature of the conductor for supply  CU type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections at Nore temperature of the conductor for load-side outgoing feeder type of electrical connectable onductor for load-side outgoing feeder maximum permissible material 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 soli 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 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 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 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 material of the sonductor at magnet coil maximum permissi	degree of protection NEMA rating of the enclosure	NEMA Type 1
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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 connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor 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 maximum permissible  material of the sonductor at magnet coil  type of connectable conductor at magnet coil  to type of connectable conductor at magnet coil  to type of connectable conductor 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  To °C  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 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  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  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 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 screw-type terminals 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 (Icu)  • at 240 V • at 480 V • at 600 V  2CU  CU  Strew-type terminals  15 15 lbf-in  2x (18 14 AWG)  75 °C  CU  CU  Thermal magnetic circuit protection of the magnet coil maximum protection of the magnetic circuit breaker  Thermal magnetic circuit breaker	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  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 protection of the main circuit protection of the main circuit breaker  Thermal magnetic circuit breaker		75 °C
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  15 15 lbf·in  2x (18 14 AWG)  CU  CU  Thermal magnetic circuit protection of the magnet coil  100kA@600V (Class R or J 40A max)  Thermal magnetic circuit breaker	material of the conductor for load-side outgoing feeder	CU
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 (Icu)  • at 240 V  • at 480 V  • at 600 V  2x (18 14 AWG)  2x (18 14 AWG)  TO  TO  TO  TO  Thermal magnetic circuit breaker	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  breaking capacity maximum short-circuit current (Icu)  • at 240 V • at 480 V • at 650 KA • at 600 V  Thermal magnetic circuit breaker	tightening torque [lbf·in] at magnet coil	15 15 lbf·in
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  Thermal magnetic circuit breaker  breaking capacity maximum short-circuit current (Icu)  • at 240 V  • at 480 V  • at 600 V  25 kA		2x (18 14 AWG)
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 600 V  100kA@600V (Class R or J 40A max)  Thermal magnetic circuit breaker  24 kA  65 kA		75 °C
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 600 V  100kA@600V (Class R or J 40A max)  Thermal magnetic circuit breaker  24 kA  65 kA  • at 600 V	material of the conductor at magnet coil	CU
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  24 kA  65 kA  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)
<ul> <li>at 240 V</li> <li>at 480 V</li> <li>at 600 V</li> <li>24 kA</li> <li>65 kA</li> <li>25 kA</li> </ul>	design of the short-circuit trip	Thermal magnetic circuit breaker
at 480 V     at 600 V     25 kA     4    4    4    4    4    4    4	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:LCE01C305480A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C305480A

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:LCE01C305480A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C305480A/certificate

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