SIEMENS

Data sheet US2:LCE01C210277A



Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 2 N.C. / 10 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] | 12 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 | 11 |
| number of NC contacts for main contacts | 2 |
| 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 auxiliany 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 240 V apparent pick-up power of magnet coil at AC ag VA operating range factor control supply voltage rated value of magnet coil fragnet coil fr | contact rating of auxiliary contacts of contactor according to UL | NA |
| control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value 240 V apparent pick-up power of magnet coil at AC apparent holding power of magnet coil actions and apparent holding power of magnet coil actions and actions and actions and apparent holding power of holding hold | Coil | |
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| apparent pick-up power of magnet coil at AC apparent picking power of magnet coil apparent picking power | control supply voltage | |
| apparent pick-up power of magnet coil at AC 28 VA apparent holding power of magnet coil at AC 28 VA operating range factor control supply voltage rated value of magnet coil Enclosure degree of protection NEMA rating of the enclosure NEMA Type 1 design of the housing indoors, usable on a general basis Mounting/wiring mounting position Vertical Surface mounting and installation Strew-type described connection for supply voltage line-side tightening torque (lbf-in) for supply type of connectable conductor rorse-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of connectable conductor for supply type of connectable conductor for supply type of connectable conductor for supply type of electrical connection to load-side outgoing feeder sightening forque (lbf-in) for load-side outgoing feeder tightening forque (lbf-in) for load-side outgoing feeder Sis 35 lbf-in Type of electrical connection to load-side outgoing feeder Sis 35 lbf-in Type of electrical connection for supply type of electrical connection for load-side outgoing feeder shale or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder shale or multi-stranded temperature of the conductor for load-side outgoing feeder shale or multi-stranded temperature of the conductor for load-side outgoing feeder shale 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 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 short-circuit tropused design of the fuse link for short-circuit protection | at AC at 50 Hz rated value | 240 V |
| apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil of magnet coil of magnet coil Enclosure degree of protection NEMA rating of the enclosure design of the housing mounting viring mounting position Surface mounting and installation type of electrical connection for supply voltage line-side tightening forque [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 maximum permissible material of the conductor for supply as a single or multi-stranded type of connectable conductor cross-sections at AWG cables 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 mat | at AC at 60 Hz rated value | 277 V |
| 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 position fastening method type of electrical connection for supply voltage line-side tightening torque [ibf-in] for supply yos de connectable conductor or supply woltage line-side at AWG cables single or multi-stranded tightening torque [ibf-in] for supply yos of connectable conductor for supply woltage line-side at AWG cables single or multi-stranded tightening torque [ibf-in] for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [ibf-in] at magnet coil type of connectable 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 tightenic querer atting 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 480 V • at 480 V • at 480 V | apparent pick-up power of magnet coil at AC | 248 VA |
| functional degree of protection NEMA rating of the enclosure design of the housing mounting position fastening method type of electrical connection for supply voltage line-side type of electrical connectable conductor cross-sections at line-side at AWG cables single or multi-stranded type of electrical connection for supply waximum permissible material of the conductor for supply type of connectable conductor for supply waximum permissible of conductor for supply type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor rose-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil maximum permissible cut the conductor at magnet coil maximum permissible 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 440 V at 440 V at 450 V at 450 V at 65 kA at 600 V | apparent holding power of magnet coil at AC | 28 VA |
| degree of protection NEMA rating of the enclosure design of the housing Mounting/wirring | | 0.85 1.1 |
| design of the housing indoors, usable on a general basis Mounting/wiring mounting position Surface mounting and installation Surface mounting and installation Surface mounting and installation Screw-type of electrical connection for supply voltage line-side Screw-type terminals | Enclosure | |
| mounting/wiring mounting position fastening 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 tat 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 type of connectable conductor cross-sections at AWG ables for load-side outgoing feeder small-stranded temperature of the conductor 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 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 tightening torque [lbf-in] at magnet coil type of connectable conductor at magnet coil maximum permissible to the conductor at magnet coil maximum permissible t | degree of protection NEMA rating of the enclosure | NEMA Type 1 |
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| fastening 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 supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables 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 tightening torque [lbf-in] at magnet coil type of connectable conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil sightening 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 coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil coll maximum permissible material of the conductor at magnet coil coll maximum permissible material of the conductor at magnet coil coll maximum permissible material of the conductor at magnet coil coll maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil coll maximum permissible material 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 conductor at magnet coil coll maximum permissible material of the conductor at magnet coil coll maximum permissible material o | Mounting/wiring | |
| 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 supply maximum permissible material of the conductor for supply 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 single or multi- stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder 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 at magnet coil 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 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 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 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 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 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 co | mounting position | Vertical |
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| 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 supply maximum permissible material of the conductor for supply with 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 waximum permissible 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 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 maximum permissible material 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 sont-circuit protection of the main circuit required 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 480 V • at 480 V • at 600 V | | - |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply CU type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder stranded temperature of the 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 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 type of connectable conductor at 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 et at 240 V et at 480 V et at 480 V et at 600 V | | ** |
| temperature of the conductor for supply maximum permissible material of the conductor for supply 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 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 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 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 24 kA at 480 V at 480 V at 480 V at 65 kA at 600 V | type of connectable conductor cross-sections at line-side | 2x (14 8 AWG) |
| 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 480 V at 480 V 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 |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multistranded 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 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 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 480 V • at 600 V | type of electrical connection for load-side outgoing feeder | Screw-type terminals |
| 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 Screw-type terminals Screw-type terminals 15 15 lbf-in 2x (18 14 AWG) CU CU CU 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 Thermal magnetic circuit breaker breaking capacity maximum short-circuit current (Icu) at 240 V at 480 V at 65 kA at 600 V | 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 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 |
| 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 Thermal magnetic circuit breaker breaking capacity maximum short-circuit current (Icu) • at 240 V • at 480 V • at 600 V 25 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 65 kA at 600 V 100kA@600V (Class R or J 40A max) Thermal magnetic circuit breaker | 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 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:LCE01C210277A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C210277A

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:LCE01C210277A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C210277A/certificate

last modified: 1/25/2022 🖸