SIEMENS

## Data sheet US2:LCE01C012120A

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 0 N.C. / 12 N.O. poles, 115-120V 60Hz/110V 50Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



| | |
|---|---|
| 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(av) |
| 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 | 12 |
| number of NC contacts for main contacts | 0 |
| 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 (operating cycles) of the main contacts typical | 100000 |
| contact rating of the main contacts of lighting contactor | |
| ● with electronic ballast [LED driver] (1 pole per 1 phase) rated value | 10A @120V / 3A @277V 1p 1ph |
| ● 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 |


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| | |
|---|---|
| contact rating of auxiliary contacts of contactor according to UL | NA |
| **Coil** | |
| type of voltage of the control supply voltage | AC |
| control supply voltage | |
| ● at AC at 50 Hz rated value | 110 V |
| ● at AC at 60 Hz rated value | 115 ... 120 V |
| apparent pick-up power of magnet coil at AC | 248 VA |
| apparent holding power of magnet coil at AC | 28 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |
| **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 |
| fastening method | Surface mounting and installation |
| type of electrical connection for supply voltage line-side | Screw-type terminals |
| tightening torque [lbf·in] for supply | 35 ... 35 lbf·in |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 2x (14 ... 8 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 | 35 ... 35 lbf·in |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 2x (14 ... 8 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 | 15 ... 15 lbf·in |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded | 2x (18 ... 14 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 | 100kA@600V (Class R or J 40A max) |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (Icu) | |
| ● at 240 V | 24 kA |
| ● at 480 V | 65 kA |
| ● at 600 V | 25 kA |
| certificate of suitability | NEMA ICS 2; UL 508 |
| **Approvals Certificates** | |
| **Test Certificates** | |

UL

**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:LCE01C012120A
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C012120A
**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:LCE01C012120A&lang=en
**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C012120A/certificate


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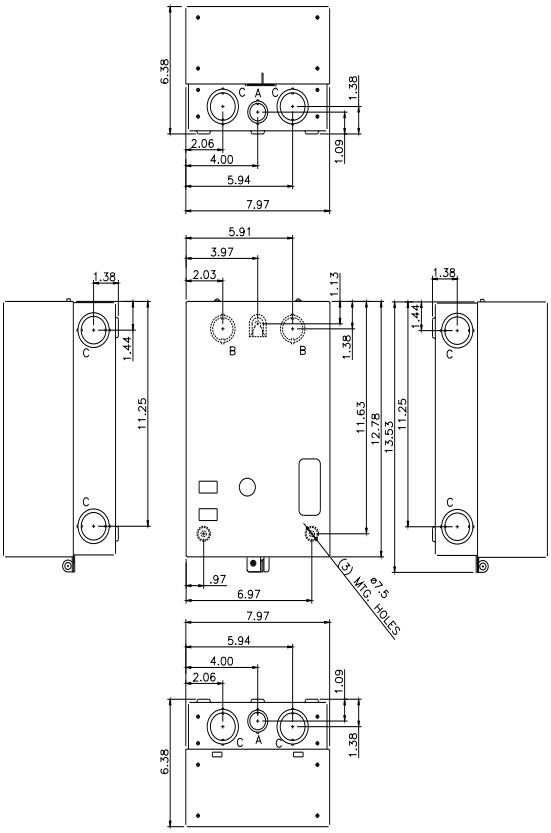
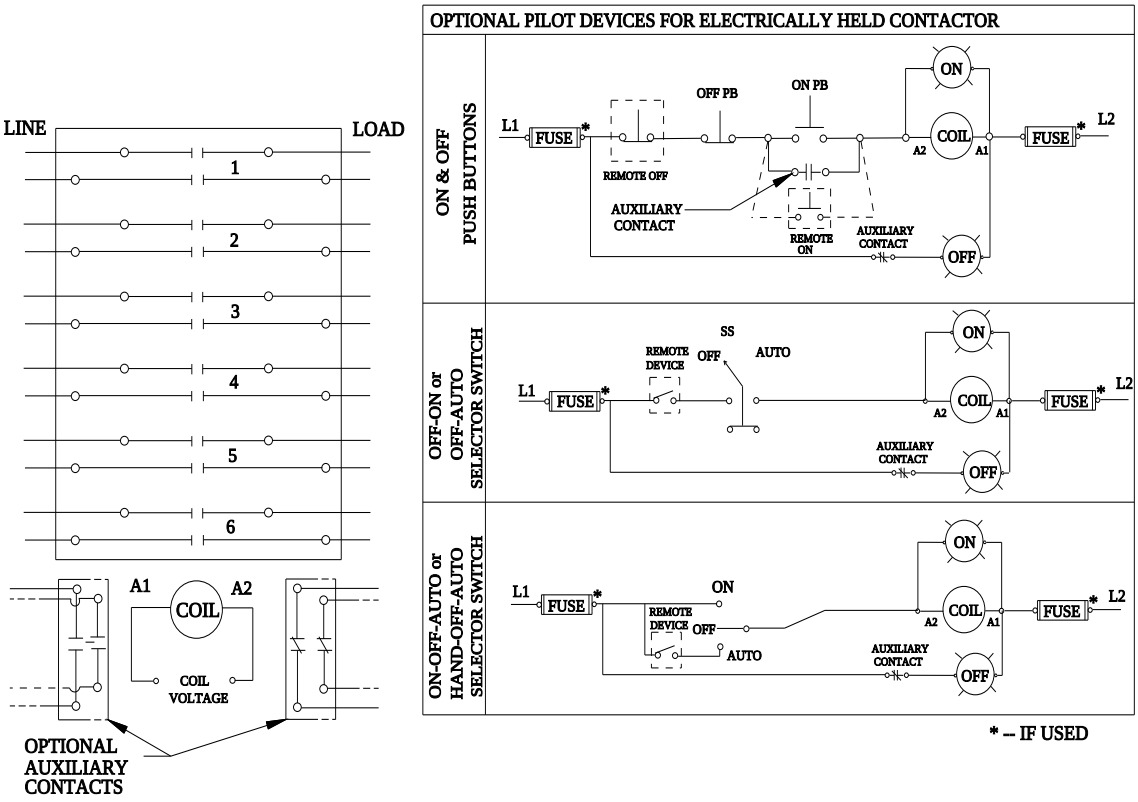



| LETTER | KNOCKOUT & CONDUIT SIZE |
|---|---|
| A | ø22.2 X ø28.6 FOR 12.7 & 19 CONDUIT |
| B | ø28.6 X ø34.9 FOR 19 & 25.4 CONDUIT |
| C | ø34.9 X ø43.6 FOR 25.4 & 31.8 CONDUIT |

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