

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 8 N.C. / 1 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 |
| <b>General technical data</b>                                           |                                                                                               |
| 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                                                                                           |
| <b>Contactors</b>                                                       |                                                                                               |
| size of contactor                                                       | 30 Amp                                                                                        |
| number of NO contacts for main contacts                                 | 1                                                                                             |
| number of NC contacts for main contacts                                 | 8                                                                                             |
| 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                                                                              |
| <b>Auxiliary contact</b>                                                |                                                                                               |
| 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                                 |
| <b>Coil</b>                                                                                                                                                                                   |                                    |
| 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                       |
| <b>Enclosure</b>                                                                                                                                                                              |                                    |
| degree of protection NEMA rating of the enclosure                                                                                                                                             | NEMA Type 1                        |
| design of the housing                                                                                                                                                                         | indoors, usable on a general basis |
| <b>Mounting/wiring</b>                                                                                                                                                                        |                                    |
| 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                                 |
| <b>Short-circuit current rating</b>                                                                                                                                                           |                                    |
| 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                 |
| <b>Further information</b>                                                                                                                                                                    |                                    |
| Industrial Controls - Product Overview (Catalogs, Brochures,...)                                                                                                                              |                                    |
| <a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a>                                                                                                              |                                    |
| Industry Mall (Online ordering system)                                                                                                                                                        |                                    |
| <a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C801120A">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C801120A</a>         |                                    |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)                                                                                                                            |                                    |
| <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C801120A">https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C801120A</a>                                           |                                    |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)                                                                                 |                                    |
| <a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:LCE01C801120A&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:LCE01C801120A&amp;lang=en</a> |                                    |
| Certificates/approvals                                                                                                                                                                        |                                    |
| <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C801120A/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C801120A/certificate</a>                   |                                    |



