

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 8 N.C. / 4 N.O. poles, 24V 60Hz / 20V 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]   | 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   |
| <b>Contactor</b>  |   |
| size of contactor   | 30 Amp  |
| number of NO contacts for main contacts                                 | 4   |
| 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   | 20 V                               |
| • at AC at 60 Hz rated value   | 24 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,...)**

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C804024A>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C804024A>

**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:LCE01C804024A&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:LCE01C804024A&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C804024A/certificate>



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