SIEMENS

Data sheet

US2:LCE01C502024A

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 5 N.C. / 2 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) general technical data Electrically held convertible to mechanically held. Power poles convertible between NO and NC weight [1b] 11 lb Height XWdh x Depth [n] 14 × 8 × 7 in Stock protection against electrical shock NA for enclosed products installation allitude [1] at height above sea level maximum 6560 ft ambient temperature [rF] - - during operation -13 +104 "F ambient temperature - - during operation -25 +40 "C contactor 30 +65 "C - during operation -25 +40 "C contactor 30 Amp number of NC contacts for main contacts 5 operating voltage for main curtent circuit at AC at 60 Hz 600 V reaching of the main contacts 5 operating voltage for main curtent circuit at AC at 60 Hz 10A @120V / 3A @277V 1p 1ph reaching after [2 poles per 1 phase) rated value 20A @400V 2p 3ph at tungsten (1 pole per 1 phase) rated value 20A @400V 2p 3ph | | |
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| special product feature Electrically held convertible to mechanically held; Power poles convertible between NQ and NC Genoral tochnical data 111 Height X Widh X Deph [in] 114 × 8 × 7 in Couch protection against electrical shock NA for enclosed products installation altitude [ii] at height above sea level maximum 6660 ft ambient temperature [rF] - • during operation -13 +104 "F ambient temperature - • during operation -25 +40 "C country of origin USA Contactor 30 Amp number of NC contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz 500 V maximum 600 V reading of the main contacts 100000 Type of main current circuit at AC at 60 Hz 600 V reading of the main contacts 100000 reade value 20 A Q277V 1p 1ph • at tungsten (1 pole per 1 phase) rated value 20A Q440V 2p 1ph • at tungsten (2 poles per 3 phases) rated value 20A Q440V 2p 1ph • at ballast (2 poles per 1 phase) rated value 30A Q460V 2p 1ph </td <td>product brand name</td> <td>Class LC</td> | product brand name | Class LC |
| Between NO and NC Ceneral technical data weight [b] 11 lb Height x Width x Depth [in] 14 x 8 x 7 in touch protection against electrical shock NA for enclosed products installation atlifued [it] at height above sea level maximum 6660 ft ambient temperature [*F] - • during storage -22 +149 *F • during storage -30 +65 *C • during storage -30 +65 *C • during storage -30 +65 *C • during operation -25 +40 *C country of origin USA Contactor 30 Amp number of NC contacts for main contacts 2 number of NC contacts for main contacts 5 operating voltage for main current circuit at AC at 60 Hz 600 ∨ maximum 100000 Type of main contacts 5 operating voltage for main current circuit at AC at 60 Hz 100000 reaktorial steriotic ballas [LED driver] (1 pole per 1 phase) 104 @2120V / 3A @277V 1p 1ph et at ungsten (2 poles per 3 phases) rated value 20A @480V 2p 1ph et at ungsten (2 poles | design of the product | Electrically held lighting contactor (convertible to mechanically held) |
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| Touch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [F] | weight [lb] | 11 lb |
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| • during operation -13 +104 "F ambient temperature -30 +65 °C • during storage -30 +65 °C • during operation -25 +40 °C country of origin USA Contactor 30 Amp number of NC contacts for main contacts 5 operating voltage for main current circuit at AC at 60 Hz 600 V maximum Type of main contacts 5 Type of main contacts Silver alloy, double break mechanical service life (operating cycles) of the main contacts 100000 fypical 100000 eat 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 (2 poles per 1 phase) rated value 20A @480V 3p 3ph • at tungsten (2 poles per 1 phase) rated value 30A @600V 3p 3ph • at ballast (2 poles per 1 phase) rated value 30A @600V 3p 3ph • at tesistive load (1 pole per 1 phase) rated value 30A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 30A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 30A @600V 3p 3ph • at resistive load (2 poles per 1 pha | ambient temperature [°F] | |
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| • during operation -25 +40 °C country of origin USA Contactor 30 Amp number of NO contacts for main contacts 2 number of NC contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz 600 V maximum Silver alloy, double break Type of main contacts Silver alloy, double break mechanical service life (operating cycles) of the main contacts 100000 vith electronic ballast [LED driver] (1 pole per 1 phase) rated value 20A @277V 1p 1ph • at tungsten (1 pole per 1 phase) rated value 20A @480V 2p 1ph • at tungsten (2 poles per 1 phase) rated value 20A @480V 2p 1ph • at ballast (1 pole per 1 phase) rated value 30A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 30A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 30A @600V 3p 3ph • at ballast (3 poles per 3 phases) rated value 30A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 30A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 30A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 30A @600V 2p 1ph • at resistive load (3 | ambient temperature | |
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| • with electronic ballast [LED driver] (1 pole per 1 phase) rated value10A @120V / 3A @277V 1p 1ph• at tungsten (1 pole per 1 phase) rated value20A @277V 1p 1ph• at tungsten (2 poles per 1 phase) rated value20A @480V 2p 1ph• at tungsten (3 poles per 3 phases) rated value20A @480V 3p 3ph• at ballast (1 pole per 1 phase) rated value30A @347V 1p 1ph• at ballast (2 poles per 1 phase) rated value30A @600V 2p 1ph• at ballast (2 poles per 1 phase) rated value30A @600V 2p 1ph• at ballast (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (1 pole per 1 phase) rated value30A @600V 2p 1ph• at resistive load (2 poles per 1 phase) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at mumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts0 | | 100000 |
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| • at ballast (1 pole per 1 phase) rated value30A @347V 1p 1ph• at ballast (2 poles per 1 phase) rated value30A @600V 2p 1ph• at ballast (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (1 pole per 1 phase) rated value30A @600V 1p 1ph• at resistive load (2 poles per 1 phase) rated value30A @600V 2p 1ph• at resistive load (2 poles per 1 phase) rated value30A @600V 2p 1ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (3 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (5p auxiliary contacts0number of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts0 | at tungsten (2 poles per 1 phase) rated value | 20A @480V 2p 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 (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 30A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | at tungsten (3 poles per 3 phases) rated value | 20A @480V 3p 3ph |
| • 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 30A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | at ballast (1 pole per 1 phase) rated value | 30A @347V 1p 1ph |
| • 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 30A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | at ballast (2 poles per 1 phase) rated value | 30A @600V 2p 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 30A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | at ballast (3 poles per 3 phases) rated value | 30A @600V 3p 3ph |
| tesistive load (3 poles per 3 phases) rated value 30A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 | at resistive load (1 pole per 1 phase) rated value | 30A @600V 1p 1ph |
| Auxiliary contact number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | at resistive load (2 poles per 1 phase) rated value | 30A @600V 2p 1ph |
| number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 | • at resistive load (3 poles per 3 phases) rated value | 30A @600V 3p 3ph |
| number of NO contacts for auxiliary contacts 0 | Auxiliary contact | |
| , | number of NC contacts for auxiliary contacts | 0 |
| number of total auxiliary contacts maximum 4 | 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 |
|---|------------------------------------|
| Coil | |
| 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 |
| 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 |
| Further information | |

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:LCE01C502024A

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

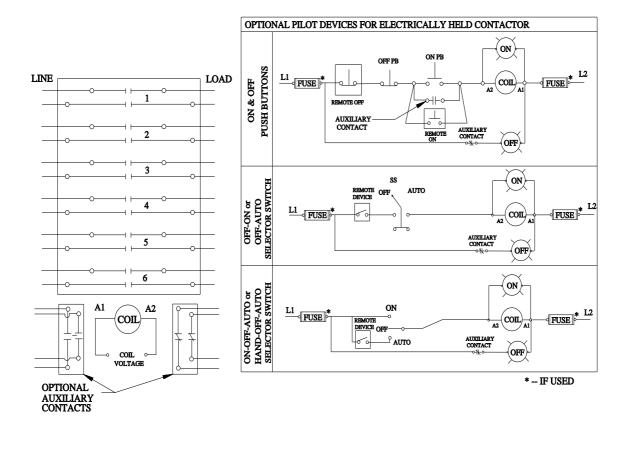
https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C502024A

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:LCE01C502024A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C502024A/certificate





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