## SIEMENS

## Data sheet

## US2:LCE01C408024A

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 4 N.C. / 8 N.O. poles, 24V 60Hz / 20V 50Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



Figure similar

product brand name         Class LC           design of the product feature         Electrically held lighting contactor (convertible to mechanically held)           special product feature         Electrically held dighting contactor (convertible to mechanically held)           weight [b]         12 lb           Height X Width X Depth [in]         14 x 8 x 7 in           touch protection against electrical shock         NA for enclosed products           installation altitude [ft] at height above sea level maximum         ambient temperature [*F]           • during storage         -22+149 *F           • during storage         -23+410 *C           • 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         8           number of NC contacts for main contacts         4           operating voltage for main current circuit at AC at 60 Hz         500 V           maximum         100000           contacts file (switching cycles) of the main contacts         4           operating voltage for nain contacts         100000      <	riguresinna	
special product feature     Electrically held convertible to mechanically held; Power poles convertible between NO and NC       General technical data     Electrical between NO and NC       weight [b]     12 lb       Height x Width x Depth [n]     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       • during operation     -13 +104 "F       ambient temperature     -30 +65 °C       • during operation     -25 +40 °C       country of origin     USA       Contactor     30 Amp       number of NC contacts for main contacts     8       number of NC contacts for main current circuit at AC at 60 Hz     Silver alloy, double break       Type of main contacts     Silver alloy, double break       mothanical service life (switching cycles) of the main contacts     100000       contact rating of the main contacts of lighting contactor     at ungsten (2 poles per 1 phase) rated value       at tungsten (2 poles per 1 phase) rated value     at QA @277V 1p 1ph       at tungsten (2 poles per 1 phase) rated value     at QA @600V 2p 1ph       at tesistive load (1 pole per 1 phase) rated value     at QA @600V 3p 3ph       at resistive load (2 poles per 3 phases) rated value     at Resistive load (2 poles per 1 phase)	product brand name	Class LC
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       6660 ft         ambient temperature ['F]       -         • during storage       -22 +149 "F         • during storage       -30 +65 "C         • during operation       -25 +40 "C         controtor       30 Amp         number of NO contacts for main contacts       8         number of NC contacts for main contacts       4         operating voltage for main contacts       10000         rowtast tring of the main contacts of lighting contactor       30 A@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 3p 3ph         • at ballast (1 pole per 1 phase) rated value       30A @600V 3p 3ph         • at ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph         • at b	design of the product	Electrically held lighting contactor (convertible to mechanically held)
weight [tb]       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]       -22 +149 °F         • during storage       -22 +149 °F         • during operation       -33 +104 °F         ambient temperature       -30 +65 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NC contacts for main contacts       8         number of NC contacts for main contacts       4         operating voltage for main current circuit at AC at 60 Hz       Silver alloy, double break         mechanical service life (switching cycles) of the main contacts typical       100000         contacts typical       100000         contacts typical       20A @277V 1p 1ph         • at tungsten (1 pole 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 ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph         • at balla	special product feature	
Height x Width x Depth [in]       14 × 8 × 7 in         touch protection against electrical shock       NA for enclosed products         installation altitude [th] at height above sea level maximum       6560 ft         ambient temperature ["F]       -22 +149 °F         • during storage       -22 +149 °F         • during storage       -22 +149 °F         • during storage       -22 +65 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NC contacts for main contacts       8         number of NC contacts for main contacts       4         operating voltage for main contacts       5liver alloy, double break         Type of main contacts       Sliver alloy, double break         maximum       100000         contact stripical       20A @277V 1p 1ph         e at ungsten (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 (2 poles 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 (2 poles per 1 ph	General technical data	
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installation altitude [ft] at height above sea level maximum       6560 ft         ambient temperature ["F]       -22 +149 "F         • during storage       -23 +104 "F         • during operation       -13 +104 "F         • during operation       -25 +40 "C         • during operation       -25 +40 "C         • during operation       -25 +40 "C         • country of origin       USA         Contactor       30 Amp         number of NO contacts for main contacts       8         number of NC contacts for main contacts       4         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       5ilver alloy, double break         Type of main contacts       Silver alloy, double break         resting storage of the main contacts of lighting contactor       • at tungsten (1 pole per 1 phase) rated value         • at tungsten (2 poles per 1 phase) rated value       20A @277V 1p 1ph         • at ballast (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 (2 poles per 1 phase) rated value       30A @600V 2p 1ph         • at hallast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         • at resistive load (2 poles per 1 phase) rated value </td <td>Height x Width x Depth [in]</td> <td>14 × 8 × 7 in</td>	Height x Width x Depth [in]	14 × 8 × 7 in
ambient temperature [*F]       -22 +149 °F         • during storage       -33 +104 °F         • during operation       -13 +104 °F         ambient temperature       -30 +65 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NC contacts for main contacts       8         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       5ilver alloy, double break         Type of main contacts       Silver alloy, double break         mechanical service life (switching cycles) of the main contacts of lighting contactor       100000         e at tungsten (1 pole per 1 phase) rated value       20A @277V 1p 1ph         e at tungsten (2 poles per 1 phase) rated value       20A @480V 2p 1ph         e at ballast (1 pole per 1 phase) rated value       30A @600V 3p 3ph         e at ballast (2 poles per 3 phases) rated value       30A @600V 3p 3ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 3p 3ph	touch protection against electrical shock	NA for enclosed products
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country of origin       USA         Contactor       30 Amp         number of NO contacts for main contacts       8         number of NC contacts for main contacts       4         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       20A @277V 1p 1ph         e at tungsten (1 pole per 1 phase) rated value       20A @480V 2p 1ph         e at tungsten (2 poles per 3 phases) rated value       20A @480V 2p 1ph         e at ballast (1 pole per 1 phase) rated value       30A @660V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @660V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @660V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (1 pole per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (3 poles per 3 phases) rated value       30A @600V 3p 3ph         e at resistive load (3 poles per 3 phases) rated value       30A	<ul> <li>during storage</li> </ul>	-30 +65 °C
Contactor       30 Amp         number of NO contacts for main contacts       8         number of NC contacts for main contacts       4         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 (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         e at tungsten (2 poles per 1 phase) rated value       20A @277V 1p 1ph         e at tungsten (3 poles per 3 phases) rated value       20A @480V 2p 1ph         e at ballast (1 pole per 1 phase) rated value       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (1 pole per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (2 poles per 1 phase) rated value       30A @600V 2p 1ph         e at resistive load (2 poles per	during operation	-25 +40 °C
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<ul> <li>at tungsten (1 pole per 1 phase) rated value</li> <li>at tungsten (2 poles per 1 phase) rated value</li> <li>at tungsten (3 poles per 3 phases) rated value</li> <li>at tungsten (3 poles per 3 phases) rated value</li> <li>at ballast (1 pole per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>		100000
<ul> <li>at tungsten (2 poles per 1 phase) rated value</li> <li>at tungsten (3 poles per 3 phases) rated value</li> <li>at ballast (1 pole per 1 phase) rated value</li> <li>30A @347V 1p 1ph</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>30A @600V 3p 3ph</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>30A @600V 1p 1ph</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>30A @600V 3p 3ph</li> <li>Auxiliary contact</li> </ul>	contact rating of the main contacts of lighting contactor	
<ul> <li>at tungsten (3 poles per 3 phases) rated value</li> <li>at ballast (1 pole per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>30A @347V 1p 1ph</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>30A @600V 3p 3ph</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>30A @600V 2p 1ph</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>30A @600V 2p 1ph</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>30A @600V 3p 3ph</li> </ul>	<ul> <li>at tungsten (1 pole per 1 phase) rated value</li> </ul>	20A @277V 1p 1ph
<ul> <li>at ballast (1 pole per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>	<ul> <li>at tungsten (2 poles per 1 phase) rated value</li> </ul>	20A @480V 2p 1ph
<ul> <li>at ballast (2 poles per 1 phase) rated value</li> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>	<ul> <li>at tungsten (3 poles per 3 phases) rated value</li> </ul>	20A @480V 3p 3ph
<ul> <li>at ballast (3 poles per 3 phases) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>30A @600V 3p 3ph</li> <li>30A @600V 2p 1ph</li> <li>30A @600V 3p 3ph</li> </ul>	<ul> <li>at ballast (1 pole per 1 phase) rated value</li> </ul>	30A @347V 1p 1ph
at resistive load (1 pole per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (2 poles per 1 phase) rated value at resistive load (3 poles per 3 phases) rated value Auxiliary contact	<ul> <li>at ballast (2 poles per 1 phase) rated value</li> </ul>	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	<ul> <li>at ballast (3 poles per 3 phases) rated value</li> </ul>	30A @600V 3p 3ph
at resistive load (3 poles per 3 phases) rated value 30A @600V 3p 3ph  Auxiliary contact	<ul> <li>at resistive load (1 pole per 1 phase) rated value</li> </ul>	30A @600V 1p 1ph
Auxiliary contact	<ul> <li>at resistive load (2 poles per 1 phase) rated value</li> </ul>	30A @600V 2p 1ph
	<ul> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>	30A @600V 3p 3ph
number of NC contacts for auviliany contacts	Auxiliary contact	
	number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts 0	number of NO contacts for auxiliary contacts	0
number of total auxiliary contacts maximum 4	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
<ul> <li>at AC at 60 Hz rated value</li> </ul>	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	0.85 1.1
of magnet coil	0.00 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 at 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 at 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 at 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
breaking capacity maximum short-circuit current (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	
Industrial Controls - Product Overview (Catalogs, Brochu	ıres,)
<u>www.usa.siemens.com/iccatalog</u> Industry Mall (Online ordering system)	

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C408024A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C408024A

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:LCE01C408024A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C408024A/certificate

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