## SIEMENS

## Data sheet

## US2:LCE01C504208A

Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 5 N.C. / 4 N.O. poles, 200-208V 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use



Figure similar

product brand name         Class LC           design of the product         Electrically held lighting contactor (convertible to mechanically held)           special product feature         Electrically held onvertible to mechanically held; Power poles convertible between NO and NC           General technical data         III Ib           Height x Width x Depth [in]         11 k × 8 × 7 in           function against electrical shock         NA for enclosed products           installation attitude (ft] at height above sea level maximum         660 ft           ambient temperature [F]         -22 +149 °F           - during storage         -22 +140 °F           - during storage         -30 +65 °C           - during operation         -25 +40 °C           contract or forigin         USA           number of NC contacts for main contacts         4           number of NC contacts for main contacts         5           operating voltage for main contacts         5           operating voltage for main contacts         5           out ungsten (1 pole per 1 phase) rated value         20A @2777 V1p 1ph           - at tungsten (1 pole per 1 phase) rated value         20A @2477 V1p 1ph           - at tungsten (2 poles per 1 phase) rated value         30A @480V 2p 1ph           - at bablast (2 poles per 1 phase) rated value	riguesinna	
special product feature         Electrically held convertible to mechanically held; Power poles convertible between NO and NC           General technical data weight [[b] Height X Width X Depth [in] touch protection against electrical shock installation altitude [R] at height above sea level maximum mabient temperature [°F] • during storage             -22 +149 °F             -13 +104 °F             -30 +65 °C             -25 +40 °C	product brand name	Class LC
convertible between NO and NC           General technical data           weight [b]         11 lb           Height X Widh x Deph [in]         14 × 8 × 7 in           Touch protection against electrical shock         NA for enclosed products           installation altitude [t] at height above sea level maximum         6560 ft           ambient temperature ['F]         -22 +149 °F           • during storage         -22 +149 °F           • during storage         -30 +65 °C           • during operation         -25 +40 °C           • during operation         -25 +40 °C           • during operation         -26 +40 °C           • country of origin         USA           Contactor         30 Amp           number of NC contacts for main contacts         4           • number of NC contacts for main current circuit at AC at 60 Hz         For OV           • at tungsten (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 (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 ballast (2	design of the product	Electrically held lighting contactor (convertible to mechanically held)
weight [lb]       11 lb         Height x Width x Depth [in]       14 x 8 x 7 in         touch protection against electrical shock       NA for enclosed products         installation altitude [lt] at height above sea level maximum       6560 ft         ambient temperature ['F]       -22 +149 "F         • during storage       -22 +149 "F         • during operation       -33 +65 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NO contacts for main contacts       4         number of NO contacts for main contacts       5         operating voltage for main contacts       5         operating voltage for main contacts       100000         routs typical       20A @277V 1p 1ph         contact rating of the main contacts of lighting contactor       at tungsten (2 poles per 1 phase) rated value         at tungsten (2 poles per 1 phase) rated value       20A @247V 1p 1ph         et at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         et at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         et at resistive load (1 pole per 1 phase) rated value       30A @600V 2p 1ph         et resistive load (2 poles per 1 phase) rated value       30A @600V 2p 1ph     <	special product feature	
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       660 ft         ambient temperature ['F]       -22 +149 "F         • during operation       -13 +104 "F         ambient temperature       -30 +65 °C         • during operation       -25 +40 "C         contactor       30 Amp         Size of contactor       30 Amp         number of NC contacts for main contacts       4         number of NC contacts for main contacts       5         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       100000         contacts typical       20A @277V 1p 1ph         contact rating of the main contacts of lighting contactor       a0A @480V 2p 1ph         • at tungsten (1 pole per 1 phase) rated value       20A @277V 1p 1ph         • at tungsten (2 poles per 3 phases) rated value       30A @600V 3p 3ph         • at ballast (1 pole 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 phase) rated value       30A @600V 3p 3ph         • at ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph	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       -13 +104 °F         • during operation       -13 +104 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NC contacts for main contacts       4         number of NC contacts for main contacts       5         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       100000         Type of main contacts       5         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         • 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 ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph         • at b	Height x Width x Depth [in]	14 × 8 × 7 in
ambient temperature [*F]       -22 +149 °F         • during storage       -22 +149 °F         • 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       4         number of NC contacts for main contacts       5         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       100000         Type of main contacts       Silver alloy, double break         contact stryical       100000         contact stryical       20A @277V 1p 1ph         e at lungsten (1 pole per 1 phase) rated value       20A @480V 2p 1ph         e at ballast (2 poles per 3 phases) 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 (3 poles per 3 phases) rated value       30A @600V 2p 1ph         e at resistive load (3 poles per 3 phases) rated value       30A @600V 2p 1ph         e at resistive load (3 poles per 3 phases) rated value       30A @600V 2p 1ph         e at resistive load (3 poles per	touch protection against electrical shock	NA for enclosed products
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contactor       30 Amp         number of NO contacts for main contacts       4         number of NC contacts for main contacts       5         operating voltage for main current circuit at AC at 60 Hz maximum       600 V         Type of main contacts       5         mechanical service life (switching cycles) of the main contacts typical       100000         contact rating 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       20A @480V 3p 3ph         e at ballast (1 pole per 1 phase) rated value       30A @600V 3p 3ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 3p 3ph         e at resistive load (1 pole 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 (3 poles per 3 phases) rated value       30A @600V 3p 3ph         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	<ul> <li>during operation</li> </ul>	-25 +40 °C
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contacts typicalcontact rating of the main contacts of lighting contactor• 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 (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 3phAuxiliary contactnumber of NC contacts for auxiliary contacts0	Type of main contacts	Silver alloy, double break
• 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 (3 poles per 3 phases) rated value30A @600V 3p 3ph• at ballast (3 poles per 3 phases) rated value30A @600V 1p 1ph• 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 (5 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (5 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (6 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (6 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph		100000
• 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 (3 poles per 3 phases) rated value30A @600V 3p 3ph• at ballast (3 poles per 3 phases) rated value30A @600V 1p 1ph• 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 (3 poles per 3 phases) rated value30A @600V 3p 3ph• Auxiliary contact30A @600V 3p 3ph	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>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 (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> <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</li></ul>	<ul> <li>at tungsten (1 pole per 1 phase) rated value</li> </ul>	20A @277V 1p 1ph
• 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 (5 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (6 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (7 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (8 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (9 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (9 poles per 3 phases) rated value30A @600V 3p 3ph• at resistive load (9 poles per 3 phases) rated value30A @600V 3p 3ph	<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> <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> <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 resist</li></ul>	<ul> <li>at tungsten (3 poles per 3 phases) rated value</li> </ul>	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	<ul> <li>at ballast (1 pole per 1 phase) rated value</li> </ul>	30A @347V 1p 1ph
<ul> <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>30A @600V 1p 1ph</li> <li>30A @600V 3p 3ph</li> </ul> Auxiliary contact           number of NC contacts for auxiliary contacts         0	<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 at resistive load (3 poles per 3 phases) rated value Auxiliary contact number of NC contacts for auxiliary contacts     0	<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  number of NC contacts for auxiliary contacts 0	<ul> <li>at resistive load (1 pole per 1 phase) rated value</li> </ul>	30A @600V 1p 1ph
Auxiliary contact     0	<ul> <li>at resistive load (2 poles per 1 phase) rated value</li> </ul>	30A @600V 2p 1ph
number of NC contacts for auxiliary contacts 0	<ul> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>	30A @600V 3p 3ph
	Auxiliary contact	
number of NO contacts for auxiliary contacts 0	number of NC 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 60 Hz rated value	200 208 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 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, Brochures,) www.usa.siemens.com/iccatalog	
Industry Mall (Online ordering system) <u>https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C504208A</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/US/en/ps/US2:LCEC	

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:LCE01C504208A&lang=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C504208A/certificate

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