## SIEMENS

## Data sheet

## US2:LCE01C102277A



Electrically held lighting contactor, (convertible to mech. held), Amp rating 30A (tungsten 20A), 1 N.C. / 2 N.O. poles, 277V 60Hz / 240V 50Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

Figuresi	milar
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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]       -22 +149 °F         • during operation       -13 +104 °F         ambient temperature       -30 +65 °C         • during operation       -25 +40 °C         contactor       USA         Contactor       30 Amp         number of NC contacts for main contacts       2         number of NC contacts for main contacts       1         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 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 2p 1ph         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 <th></th> <th></th>		
special product feature         Electrically held convertible to mechanically held; Power poles convertible between NO and NC           General technical data         It lb           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]         -22 +149 °F           • 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         1           operating voltage for main current circuit at AC at 60 Hz         100000           reading off (switching cycles) of the main contacts of lighting contactor         1           • at tungsten (2 poles per 1 phase) rated value         20A @277V 1p 1ph           • at tungsten (2 poles per 1 phase) rated value         20A @247V 1p 1ph           • at tungsten (2 poles per 1 phase) rated value         20A @347V 1p 1ph           • at tungsten (2 poles per 1 phase) rated value         30A @600V 2p 1ph           • at ballast (2 poles per 1 phase) rated v	product brand name	Class LC
convertible between NO and NC           General technical data           weight [b]         11 lb           Height X Widh x Depth [n]         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 opration         -33 +65 °C           • during operation         -25 +40 °C           • during operation         USA           country of origin         USA           contactor         30 Amp           size of contactor         30 Amp           number of NC contacts for main contacts         2           operating voltage for main current circuit at AC at 60 Hz         Silver alloy, double break           mechanical service life (switching cycles) of the main         100000           contact typical         20A @480V 2p 1ph           • at tungsten (2 poles per 1 phase) rated value         20A @480V 3p 3ph           • 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 heisitive load (2 poles per 1 phase) rated value         30A @600V 2p 1ph           • at ballast (2 pol	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 [ft] at height above sea level maximum       6560 ft         ambient temperature ['F]       -22 +149 "F         • during operation       -13 +104 "F         ambient temperature       -23 +65 °C         • during operation       -25 +40 °C         country of origin       USA         Contactor       30 Amp         number of NC contacts for main contacts       1         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       Silver alloy, double break         rotacts typical       contacts         • 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 (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 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	special product feature	
Height X With 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]       -22 +149 °F         • during operation       -13 +104 °F         ambient temperature [°F]       -25 +40 °C         • during operation       -25 +40 °C         contactor       30 Amp         contactor       30 Amp         number of NC contacts for main contacts       1         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       Silver alloy, double break       100000         Type of main contacts       1       600 V         reating voltage for main current circuit at AC at 60 Hz       100000         contacts for main contacts       1       600 V         reating of the main contacts of lighting contactor       1       100000         e at tungsten (2 poles per 1 phase) rated value       20A @480V 2p 1ph       20A @480V 2p 1ph         e at ballast (1 pole per 1 phase) rated value       30A @600V 2p 1ph       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rated value       30A @600V 2p 1ph       30A @600V 2p 1ph         e at ballast (2 poles per 1 phase) rate	General technical data	
InstallationNA for enclosed productsinstallation altitude [ft] at height above sea level maximum6560 ftambient temperature ['F]-22 +149 "F• during storage-30 +65 "C• during storage-30 +65 "C• during operation-25 +40 "C• country of originUSAContactor30 Ampsize of contactor number of NC contacts for main contacts1operating voltage for main current circuit at AC at 60 Hz600 Vmachan contacts510 VType of main contacts of lighting contacts1contact rating of the main contacts of lighting contactor510 V• at tungsten (2 poles per 1 phase) rated value20A @277V 1p 1ph• at tungsten (3 poles per 3 phases) rated value20A @2477V 1p 1ph• at tungsten (3 poles per 1 phase) rated value20A @480V 2p 1ph• at ballast (2 poles per 1 phase) rated value30A @600V 3p 3ph• 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 (2 poles per 1 phase) rated value30A @600V 2p 1ph• at ballast (2 poles per 1 phase) rated value30A @600V 3p 3ph• at ballast (2 poles per 1 phase) rated value30A @600V 3p 3ph• at resistive load (2 poles per 1 phase) rated value30A @600V 3p 3ph• at resistive load (2 poles per 1 phase) rated value30A @600V 3p 3ph• at resistive load (2 poles per 1 phase) rated value30A @600V 3p 3ph• at resistive load (2 poles per 1 phase) rated value30A @60	weight [lb]	11 lb
installation altitude [ft] at height above sea level maximum       6560 ft         ambient temperature [°F]       -22 +149 °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 NO contacts for main contacts       2         number of NC contacts for main contacts       1         operating voltage for main contacts       1         operating voltage for main contacts       1         maximum       Silver alloy, double break         Type of main contacts       Silver alloy, double break         mechanical service life (switching cycles) 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 @2477V 1p 1ph         at tungsten (3 poles per 3 phases) rated value       20A @480V 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         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 (3 poles per 3 phase	Height x Width x Depth [in]	14 × 8 × 7 in
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Size of contactor       30 Amp         number of NO contacts for main contacts       2         number of NC contacts for main contacts       1         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         at tungsten (2 poles per 1 phase) rated value       20A @277V 1p 1ph         at tungsten (2 poles per 3 phases) rated value       20A @480V 2p 1ph         at tungsten (2 poles per 1 phase) rated value       30A @600V 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 2p 1ph         at resistive 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 3 phases) rated value       30A @600V 2p 1ph         at resistive load (2 poles per 1 phase) rated value       30A @600V 3p 3ph         at resistive load (3 poles per 3 phases) ra	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 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 cesistive 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 mumber of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>0</li> </ul>		100000
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<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 cesistive 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 (5 poles per 3 phases) rated value</li> <li>at resistive load (6 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 3 phases) rated value</li> <li>at resistive load (2 poles per 3 phases) rated value</li> <li>at resistive load (2 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 (1 pole per 1 phase) rated value</li> <li>at resistive load (1 pole per 1 phase) rated value</li> <li>at resistive load (2 poles per 3 phases) rated value</li> <li>at resistive load (2 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)</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• Auxiliary contact30A @600V 3p 3phnumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts0	<ul> <li>at tungsten (2 poles per 1 phase) rated value</li> </ul>	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 (3 poles per 3 phases) 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	<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 (2 poles per 1 phase) rated value</li> <li>at resistive load (3 poles per 3 phases) rated value</li> <li>30A @600V 2p 1ph</li> <li>30A @600V 3p 3ph</li> </ul> Auxiliary contacts           number of NC contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0	<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 2p 1ph</li> <li>30A @600V 3p 3ph</li> </ul> Auxiliary contacts           number of NC contacts for auxiliary contacts         0           number of NO 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         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	<ul> <li>at ballast (3 poles per 3 phases) rated value</li> </ul>	30A @600V 3p 3ph
Auxiliary contacts for auxiliary contacts     Number of NC contacts for auxiliary contacts     O	<ul> <li>at resistive load (1 pole per 1 phase) rated value</li> </ul>	30A @600V 1p 1ph
Auxiliary contact     0       number of NC contacts for auxiliary contacts     0       number of NO contacts for auxiliary contacts     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       number of NO contacts for auxiliary contacts     0	<ul> <li>at resistive load (3 poles per 3 phases) rated value</li> </ul>	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	NA
to UL Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
at AC at 50 Hz rated value	240 V
<ul> <li>at AC at 60 Hz rated value</li> </ul>	277 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, Brochu www.usa.siemens.com/iccatalog Industry Mall (Online ordering system)	ıres,)

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LCE01C102277A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C102277A

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:LCE01C102277A&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:LCE01C102277A/certificate

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