SIEMENS

Data sheet

US2:LEN00B003120B

Electrically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 3 N.O. Poles, 110VAC 50HZ/120VAC 60HZ coil, Non-combination type, (no disconnect device), Enclosure NEMA type (open), No enclosure



design of the product Electrically held lighting contactor special product feature Compact design; Finger safe control terminals Qeneral tochnical data Ib Height x Width x Depth [in] 2.35 × 1.84 × 2.96 in Louch protection against electrical shock Main circuit (Inger-safe); Control circuit (Inger-safe) installation altitude [it] at height above sea level maximum 6560 ft ambient temperature [F] - - during storage - size of contactor 20 Amp number of NC contacts for main contacts 3 number of NC contacts for main contacts 3 operating voltage for main contacts of lighting contactor 8A @ 120V / 3A @277V 1p 1ph - at tungsten (1 pole per 1 phase) rated value 20A @480V 2p 1ph - at tungs	product brand name	Class LE
General technical data 11b Weight [1b] 1 1b Height x Width x Depth [in] 2.35 × 1.84 × 2.96 in touch protection against electrical shock Main circuit (finger-safe): Control circuit (finger-safe) installation altitude [1] at height above sea level maximum 6660 ft ambient temperature [F] -67 +176 'F • during operation 32 104 'F ambient temperature -55 +60 'C • during operation 0 40 'C country of origin Germany Contactor 20 Amp number of NC contacts for main contacts 0 number of NC contacts for main contacts 0 mechanical service life (operating cycles) of the main contacts 30000000 vitting storage -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 20A @480V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @000V 1p 1ph 20A @000V 3p 3ph • at ballast (2 poles per 1 phase) rated value 20A @000V 2p 1ph 20A @000V 3p 3ph • at ballast (2 poles per 1 phase) rated value 20A @000V 2p 1ph 20A @000V 3p 3ph • at b	design of the product	Electrically held lighting contactor
weight [b] 1 lb Height X Widh x Depth [in] 2.35 × 1.84 × 2.98 in touch protection against electrical shock Main circuit (finger-safe): Control circuit (finger-safe) installation altitude [It] at height above sea level maximum 6660 ft ambient temperature [FF] -67 +176 °F • during storage -67 +107 °F • during storage -55 +60 °C • during operation 0 40 °C country of origin Germany Contactor 20 Amp number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 800 V maximum 30000000 vipical 200 & @277V 1p 1ph et tungsten (1 pole per 1 phase) rated value 20A @480V 2p 1ph et at tungsten (2 poles per 1 phase) rated value 20A @480V 2p 1ph et at tungsten (2 poles per 1 phase) rated value 20A @480V 2p 1ph et at ballast (1 pole per 1 phase) rated value 20A @480V 2p 1ph et at ballast (2 poles per 1 phase) rated value 20A @480V 2p 1ph et at ballast (2 poles per 1 phase) rated value 20A @480V 2p 1ph	special product feature	Compact design; Finger safe control terminals
Height x With x Depth [in] 2.35 × 1.84 × 2.98 in fouch protection against electrical shock Main circuit (finger-safe); Control circuit (finger-safe) installation altitude [ft] at height above sea level maximum 6660 ft ambient temperature [F] -67 +176 °F • during storage -67 +176 °F • during storage -67 +176 °F • during storage -65 +80 °C • during storage -65 +80 °C • during operation 0 40 °C Country of origin Germany Contactor 20 Amp number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage for main cortexts 0 out all ungsten (1 pole per 1 phase) rated value 20A @A00 V 2 ph • at tungsten (1 pole per 1 phase) rated value 20A @A00 V 3ph • at ballast (1 pole per 1 phase) rated value 20A @A00 V 3ph • at ballast (1 pole per 1 phase) rated value 20A @A00 V 3ph • at ballast (1 pole per 1 phase) rated value 20A @A00 V 3ph • at ballast (1 pole per 1 phase) rated value 20A @A00 V 3ph • at ballast (2 poles per 1 phase) rated value 20A @A00 V 3ph	General technical data	
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Installation allitude [ft] at height above sea level maximum 6560 ft ambient temperature [F] - 67 +176 'F • during storage - 67 +176 'F ambient temperature - 22 104 'F • during storage - 55 + 80 °C • during operation 0 40 °C country of origin Germany Contactor 20 Amp number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 30000000 mechanical service life (operating cycles) of the main contacts 0 ontact viul all of the main contacts of lighting contactor 8A @ 120V / 3A @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 tungsten (2 poles per 1 phase) rated value 20A @400V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 poles per 3 phases) rated value 20A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 pole	Height x Width x Depth [in]	2.35 × 1.84 × 2.98 in
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	installation altitude [ft] at height above sea level maximum	6560 ft
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• during storage -55 +80 °C • during operation 0 40 °C county of origin Germany Contactor 3 size of contactor 20 Amp number of NO contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V mechanical service life (operating cycles) of the main contacts 30000000 typical contacts of lighting contactor • with electronic ballast [LED driver] (1 pole per 1 phase) rated value 8A @120V / 3A @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 @600V 3p 3ph • at tungsten (2 poles per 1 phase) rated value 20A @600V 3p 3ph • at ballast (1 pole per 1 phase) rated value 20A @600V 3p 3ph • at ballast (2 poles per 3 phases) rated value 20A @600V 3p 3ph • at tensistive load (1 pole per 1 phase) rated value 20A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 20A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 20A @600V 3p 3ph <t< td=""><td>during operation</td><td>32 104 °F</td></t<>	during operation	32 104 °F
• during operation 0 40 °C country of origin Germany Contactor 20 Amp number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V maximum 30000000 contact rating of the main contacts of lighting contactor 30000000 • with electronic ballast [LED driver] (1 pole per 1 phase) 8A @120V / 3A @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 ballast (1 pole per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 20A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 20A @600V	ambient temperature	
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 at ballast (2 poles per 1 phase) rated value at ballast (3 poles per 3 phases) rated value 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 at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at resistive load (3 poles per 3 phases) rated value at contacts at contacts	 at tungsten (3 poles per 3 phases) rated value 	20A @480V 3p 3ph
• at ballast (3 poles per 3 phases) rated value20A @600V 3p 3ph• at resistive load (1 pole per 1 phase) rated value20A @600V 1p 1ph• at resistive load (2 poles per 1 phase) rated value20A @600V 2p 1ph• at resistive load (3 poles per 3 phases) rated value20A @600V 3p 3phAuxiliary contact20A @600V 3p 3phnumber of NC contacts at contactor for auxiliary contacts0number of NO contacts at contactor for auxiliary contacts1number of total auxiliary contacts maximum4contact rating of auxiliary contacts of contactor according to ULA600 / Q600	 at ballast (1 pole per 1 phase) rated value 	20A @347V 1p 1ph
• at resistive load (1 pole per 1 phase) rated value20A @600V 1p 1ph• at resistive load (2 poles per 1 phase) rated value20A @600V 2p 1ph• at resistive load (3 poles per 3 phases) rated value20A @600V 3p 3phAuxiliary contact20A @600V 3p 3phnumber of NC contacts at contactor for auxiliary contacts0number of NO contacts at contactor for auxiliary contacts1number of total auxiliary contacts maximum4contact rating of auxiliary contacts of contactor according to ULA600 / Q600	 at ballast (2 poles per 1 phase) rated value 	20A @600V 2p 1ph
• at resistive load (2 poles per 1 phase) rated value 20A @600V 2p 1ph • at resistive load (3 poles per 3 phases) rated value 20A @600V 3p 3ph Auxiliary contact 20A @600V 3p 3ph number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	 at ballast (3 poles per 3 phases) rated value 	20A @600V 3p 3ph
• at resistive load (3 poles per 3 phases) rated value 20A @600V 3p 3ph Auxiliary contact 0 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	• at resistive load (1 pole per 1 phase) rated value	20A @600V 1p 1ph
Auxiliary contact 0 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	• at resistive load (2 poles per 1 phase) rated value	20A @600V 2p 1ph
number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	• at resistive load (3 poles per 3 phases) rated value	20A @600V 3p 3ph
number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	Auxiliary contact	
number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL A600 / Q600	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL A600 / Q600	number of NO contacts at contactor for auxiliary contacts	1
	number of total auxiliary contacts maximum	4
Coil	contact rating of auxiliary contacts of contactor according to UL	A600 / Q600
	Coil	

type of voltage of the control supply voltage	AC
control supply voltage	
 at AC at 50 Hz rated value 	110 V
 at AC at 60 Hz rated value 	120 V
apparent pick-up power of magnet coil at AC	31.7 VA
apparent holding power of magnet coil at AC	4.8 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	Open device (no enclosure)
design of the housing	NA
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	7 12 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2x (20 16 AWG), 2x (18 14 AWG), 2x 12 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	7 12 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2x (20 16 AWG), 2x (18 14 AWG), 2x 12 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	7 10 lbf·in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	2x (20 16 AWG), 2x (18 14 AWG)
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts	7 12 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	2x (20 16 AWG), 2x (18 14 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	100kA@600V (Class J 35A max)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (lcu)	
• at 240 V	65 kA
• at 480 V	65 kA
• at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No. 14
Further information	

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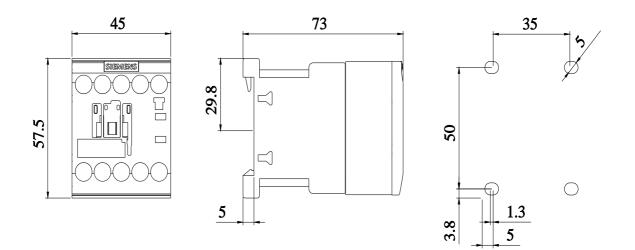
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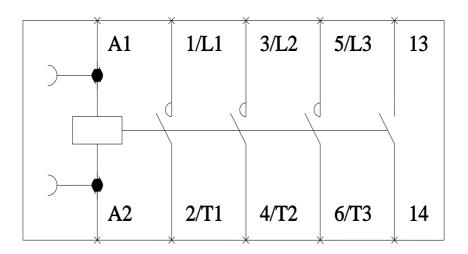
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LEN00B003 Wiring Diagram

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