SIEMENS

Data sheet US2:LEFB1B003277B

Electrically held lighting contactor, Contactor amp rating 20A, 0 N.C. / 3 N.O. Poles, 277VAC 60HZ coil, Combination type, 30A/600V fusible disconnect, Enclosure NEMA type 1, Indoor general purpose use

Figure similar

General technical data	
Weight [lb]	39 lb
Height x Width x Depth [in]	24 × 11 × 8 in
Protection against electrical shock	NA for enclosed products
Installation altitude [ft] at height above sea level maximum	6560 ft
Ambient temperature [°F] during storage	-67 ... +176 °F
Ambient temperature [°F] during operation	32 ... 104 °F
Ambient temperature during storage	-55 ... +80 °C
Ambient temperature during operation	0 ... 40 °C
Country of origin	USA

Contactor	
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 maximum	600 V
Mechanical service life (switching cycles) of the main contacts typical	30000000

Contact rating of the main contacts of lighting contactor	
• 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 (3 poles per 3 phases) rated value	20A @480V 3p 3ph
• at ballast (1 pole per 1 phase) rated value	20A @347V 1p 1ph
• at ballast (2 poles per 1 phase) rated value	20A @600V 2p 1ph
• at ballast (3 poles per 3 phases) rated value	20A @600V 3p 3ph
• at resistive load (1 pole per 1 phase) rated value	20A @600V 1p 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	
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

Coil	
Type of voltage of the control supply voltage	AC
Control supply voltage	
• at DC rated value	0 ... 0 V
• at AC at 60 Hz rated value	277 ... 277 V
• at AC at 50 Hz rated value	0 ... 0 V
Apparent pick-up power of magnet coil at AC	31.7 V·A
Apparent holding power of magnet coil at AC	4.8 V·A
Operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1

Disconnect Switch	
Rated response values of switch disconnector	30A / 600V
Design of fuse holder	Class R fuse clips
Operating class of the fuse link	Class R

Enclosure	
Degree of protection NEMA rating of the enclosure	NEMA 1 enclosure
Design of the housing	Indoor general purpose use

Mounting/wiring	
Mounting position	Vertical
(mounting type)	Surface mounting and installation

Type of electrical connection for supply voltage line-side	Box lug
Tightening torque [lbf·in] for supply	35 ... 35 lbf·in
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	1x (14 ... 2 AWG)
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	AL or 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 at AWG conductors 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 at AWG conductors 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 at AWG conductors 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 R or J)

Further information

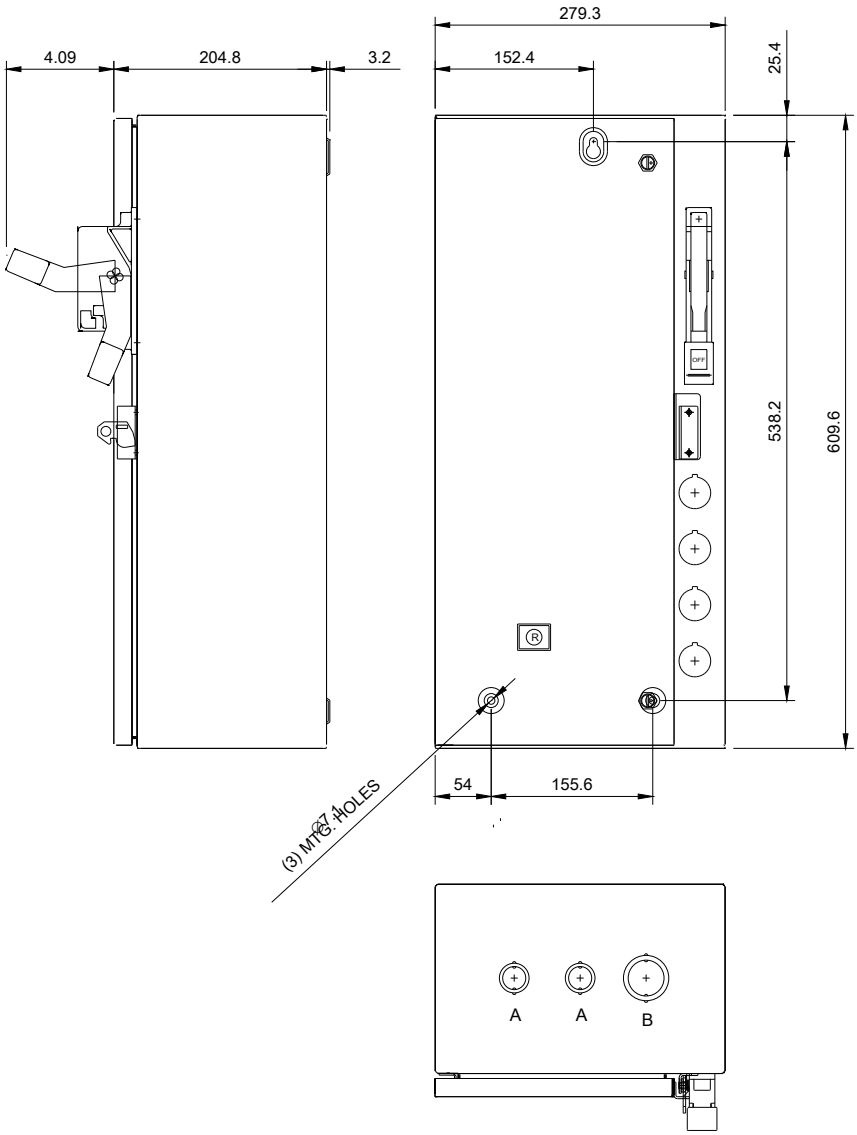
Industrial Controls - Product Overview (Catalogs, Brochures,…)
www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:LEFB1B003277B

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/US/en/ps/US2:LEFB1B003277B

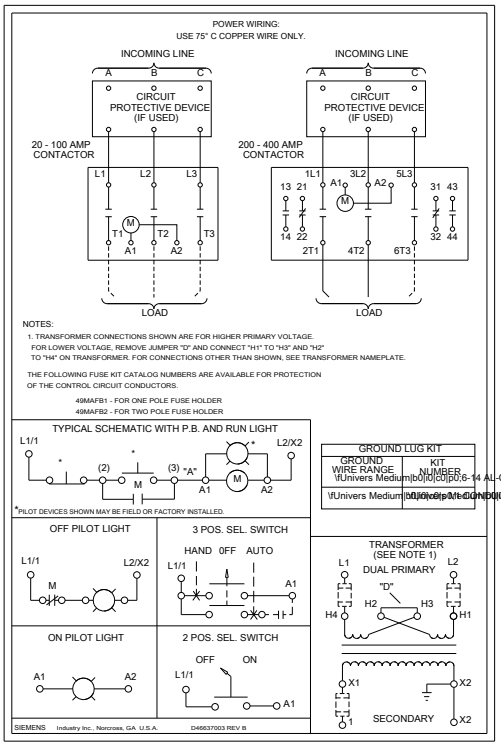
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:LEFB1B003277B&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:LEFB1B003277B/certificate



\LCONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
A	%%C12.7 & %%C19 CONDUIT
B	∅25.4 & ∅31.8 CONDUIT



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