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Data sheet US2:14LPU32AF



Non-reversing motor starter Size 5 Three phase full voltage Solid-state overload relay OLRelay amp range 55-250A 110-127V 50-60HZ/DC coil Combination type No enclosure

product brand name	Class 14
design of the product	direct starter
General technical data	
weight [lb]	21 lb
Height x Width x Depth [in]	12.92 × 6.5 × 8.94 in
touch protection against electrical shock	Main circuit (not finger-safe); Control circuit (finger-safe)
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
● during storage	-22 ... +149 °F
● during operation	-4 ... +104 °F
ambient temperature	
● during storage	-30 ... +65 °C
● during operation	-20 ... +40 °C
country of origin	Germany
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
● at 200/208 V rated value	75 hp
● at 220/230 V rated value	100 hp
● at 460/480 V rated value	200 hp
● at 575/600 V rated value	200 hp
Contactor	
size of contactor	NEMA controller size 5
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	270 A
mechanical service life (operating cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	2
number of NO contacts at contactor for auxiliary contacts	2
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 2.5A@600VDC (Q600)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
● at DC rated value	110 ... 127 V
● at AC at 50 Hz rated value	110 ... 127 V
● at AC at 60 Hz rated value	110 ... 127 V

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holding power at AC minimum	7 W
apparent pick-up power of magnet coil at AC	590 V·A
apparent holding power of magnet coil at AC	7 V·A
operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
percental drop-out voltage of magnet coil related to the input voltage	60 %
ON-delay time	30 ... 95 ms
OFF-delay time	40 ... 80 ms
Overload relay	
product function	
● overload protection	Yes
● phase failure detection	Yes
● asymmetry detection	Yes
● ground fault detection	No
● test function	Yes
● external reset	No
reset function	Manual and automatic
trip class	CLASS 20
adjustable current response value current of the current-dependent overload release	55 ... 250 A
product feature protective coating on printed-circuit board	No
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay	
● at AC at 600 V	5 A
● at DC at 250 V	1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
● with single-phase operation at AC rated value	600 V
● with multi-phase operation at AC rated value	300 V
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	lug
tightening torque [lbf·in] for supply	180 ... 195 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	3/0 AWG - 600 MCM (front only) or 250 - 500 MCM (rear pane only) or 2 x 2/0 AWG - 2 x 500 MCM (front & rear pane)
temperature of the conductor for supply maximum permissible	75 °C
type of electrical connection for load-side outgoing feeder	Box lug
tightening torque [lbf·in] for load-side outgoing feeder	180 ... 220 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2 x 2/0 AWG - 500 MCM
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 terminal
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	2 x (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 for auxiliary contacts	screw terminal
tightening torque [lbf·in] at contactor for auxiliary contacts	7 ... 10 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	2x (20 - 16), 2x (18 - 14)
temperature of the conductor at contactor for auxiliary contacts	75 °C

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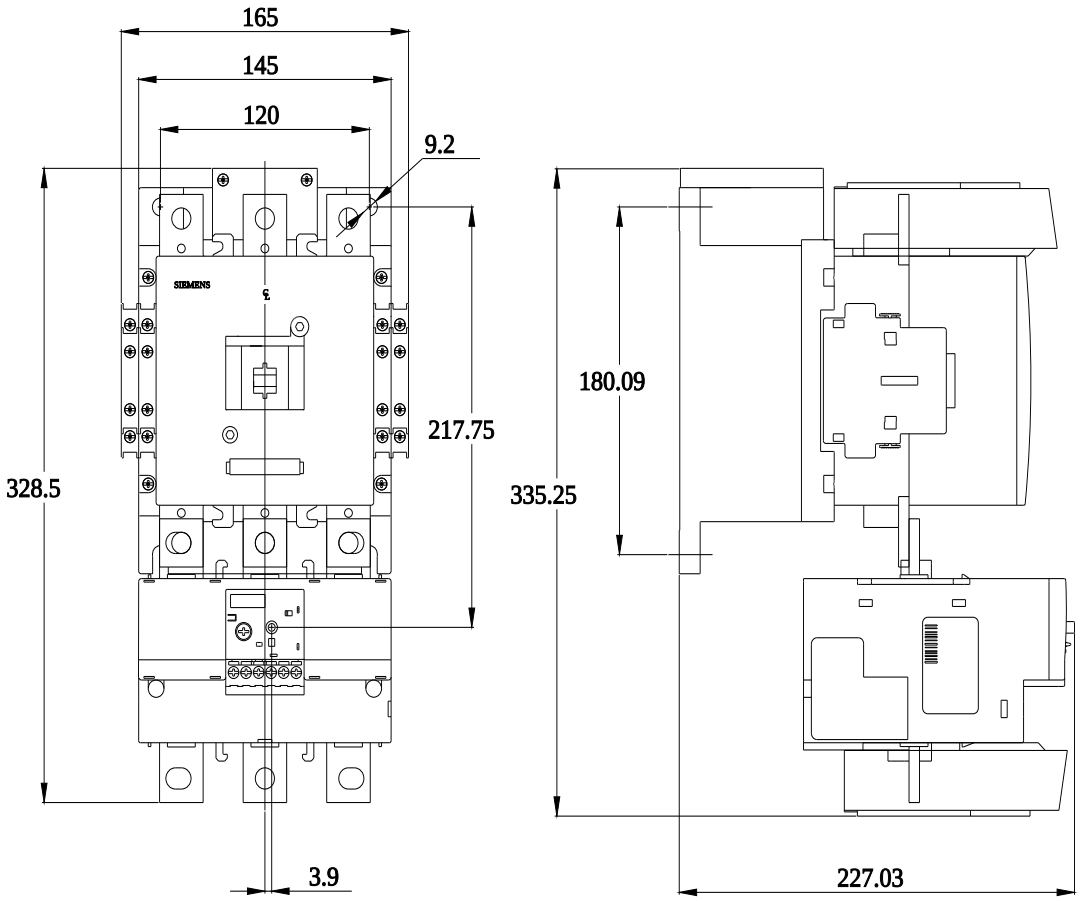
maximum permissible	
material of the conductor at contactor for auxiliary contacts	Cu
type of electrical connection at overload relay for auxiliary contacts	Screw terminal
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 ... 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2 x (20 - 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	Cu
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	14kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	thermo magnetisch
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 kA
• at 480 V	14 kA
• at 600 V	14 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Approvals Certificates	
Test Certificates	

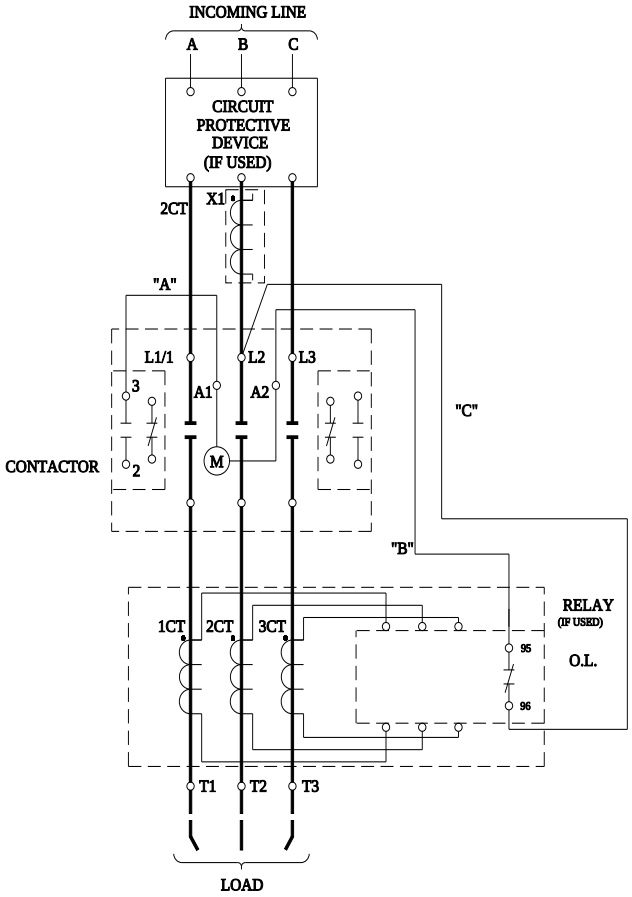


Further information

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=US2:14LPU32AF
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32AF
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14LPU32AF&lang=en
Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32AF/certificate

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