## **SIEMENS**

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

Figure similar

design of the product  General technical data  weight [lb]  Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  ambient temperature  • during storage • during operation  ambient temperature  • during storage • during operation  -30 +65 °C  • during operation  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value  Size of contactor  NEMA controller size 5	General technical data  weight [lb]  Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation ambient temperature	21 lb 12.92 × 6.5 × 8.94 in Main circuit (not finger-safe); Control circuit (finger-safe) 6560 ft -22 +149 °F
weight [lb]  Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  ambient temperature • during storage • during operation  -4 +104 °F  ambient temperature • during operation  4 +65 °C • during operation  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  • Contactor	weight [lb]  Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation ambient temperature	12.92 × 6.5 × 8.94 in  Main circuit (not finger-safe); Control circuit (finger-safe) 6560 ft  -22 +149 °F
Height x Width x Depth [in]  touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  • during storage • during operation  • during storage • during operation  • during operation  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • Contactor	Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]	12.92 × 6.5 × 8.94 in  Main circuit (not finger-safe); Control circuit (finger-safe) 6560 ft  -22 +149 °F
touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  ambient temperature  • during storage • during storage • during operation  -4 +104 °F  ambient temperature  • during operation  -30 +65 °C  • during operation  -20 +40 °C  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  • at 575/600 V rated value  Contactor	touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation ambient temperature	Main circuit (not finger-safe); Control circuit (finger-safe) 6560 ft  -22 +149 °F
installation altitude [ft] at height above sea level maximum  ambient temperature [°F]  • during storage  • during operation  ambient temperature  • during storage  • during storage  • during operation  -30 +65 °C  • during operation  -20 +40 °C   Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  200 hp  Contactor	installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation ambient temperature	6560 ft -22 +149 °F
ambient temperature [°F]  • during storage • during operation -4 +104 °F  ambient temperature • during storage • during operation -30 +65 °C • during operation  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • 200 hp  Contactor	ambient temperature [°F]  • during storage  • during operation  ambient temperature	-22 +149 °F
<ul> <li>during storage         <ul> <li>during operation</li> <li>during storage</li> <li>during storage</li> <li>during storage</li> <li>during operation</li> <li>during operation</li> </ul> </li> <li>Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>on to hp</li> </ul> </li> <li>Contactor</li> </ul>	during storage     during operation     ambient temperature	
<ul> <li>during operation</li> <li>during storage</li> <li>during operation</li> <li>during operation</li> <li>during operation</li> <li>20 +65 °C</li> <li>during operation</li> <li>during operation</li> <li>during operation</li> <li>20 +40 °C</li> <li>Horsepower ratings</li> <li>yielded mechanical performance [hp] for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>200 hp</li> <li>Contactor</li> </ul>	during operation     ambient temperature	
ambient temperature  • during storage • during operation  -20 +65 °C  • during operation  -20 +40 °C  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value  200 hp  Contactor	ambient temperature	-4 +104 °F
<ul> <li>during storage         <ul> <li>during operation</li> <li>-20 +40 °C</li> </ul> </li> <li>Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 4575/600 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Contactor</li> </ul>	·	
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motor	Horsepower ratings	
<ul> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>200 hp</li> <li>Contactor</li> </ul>		
<ul> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>Contactor</li> </ul> 200 hp	<ul><li>at 200/208 V rated value</li></ul>	75 hp
at 575/600 V rated value  200 hp  Contactor	• at 220/230 V rated value	100 hp
Contactor	<ul><li>at 460/480 V rated value</li></ul>	200 hp
	• at 575/600 V rated value	200 hp
size of contactor NEMA controller size 5	Contactor	
	size of contactor	NEMA controller size 5
number of NO contacts for main contacts 3	number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum  600 V		600 V
operational current at AC at 600 V rated value 270 A	operational current at AC at 600 V rated value	270 A
mechanical service life (switching cycles) of the main contacts typical 10000000		10000000
Auxiliary contact	Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts 2	number of NC contacts at contactor for auxiliary contacts	2
number of NO contacts at contactor for auxiliary contacts 2	number of NO contacts at contactor for auxiliary contacts	2
number of total auxiliary contacts maximum 8	number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according 10A@240VAC (A300), 2.5A@250VDC (Q300) to UL	·	10A@240VAC (A300), 2.5A@250VDC (Q300)
Coil	Coil	
type of voltage of the control supply voltage AC/DC	type of voltage of the control supply voltage	AC/DC
control supply voltage	control supply voltage	
• at DC rated value 110 127 V	the state of the s	110 127 V
• at AC at 50 Hz rated value 110 127 V	at DC rated value	440 40714

at AC at 60 Hz rated value	110 127 V
holding power at AC minimum	7.4 W
apparent pick-up power of magnet coil at AC	590 VA
apparent holding power of magnet coil at AC	6.7 VA
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)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Enclosure	
degree of protection NEMA rating	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	Box lug
tightening torque [lbf·in] for supply	180 195 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	3/0 AWG - 600 MCM (front only) or 250 - 500 MCM (back only) or 2 x 2/0 AWG - 2 x 500 MCM (both front & back)
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 at 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-type terminals
tightening torque [lbf·in] at magnet coil	7 10 lbf·in
type of connectable conductor cross-sections of magnet coil at 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 soil	
material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts	CU screw-type terminals

tightening torque [lbf·in] at contactor for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	2x (20 - 16), 2x (18 - 14)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	screw-type terminals
tightening torque [lbf-in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay at 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	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (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
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, ...)

http://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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