SIEMENS

Data sheet US2:14LPU32HH



Non-reversing motor starter, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 440-480V 50-60Hz/DC coil, Non-combination type, Enclosure type 7/9/3/4, Hazardous locations, Standard width enclosure

Figure similar

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
General technical data	
weight [lb]	340 lb
Height x Width x Depth [in]	48.88 × 22.88 × 14.88 in
touch protection against electrical shock	(NA for enclosed products)
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	USA
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@240VAC (A300), 2.5A@250VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
at DC rated value	440 480 V
 at AC at 50 Hz rated value 	440 480 V
at AC at 60 Hz rated value	440 480 V
holding power at AC minimum	7.4 W

apparent pick up power of recent to all at AC	500 \/A
apparent holding 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	Yes
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	3, 4, 7, 9
	3, 4, 7, 9 Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III
degree of protection NEMA rating	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D,
degree of protection NEMA rating design of the housing	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D,
degree of protection NEMA rating design of the housing Mounting/wiring	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III
degree of protection NEMA rating design of the housing Mounting/wiring mounting position	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III Vertical
degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III Vertical Surface mounting and installation
degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III Vertical Surface mounting and installation Box lug
degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at	Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III Vertical Surface mounting and installation Box lug 180 195 lbf·in 3/0 AWG - 600 MCM (front only) or 250 - 500 MCM (back only) or 2 x 2/0 AWG
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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	none
circuit required	
design of the short-circuit trip	none
	none
design of the short-circuit trip	none 0 kA
design of the short-circuit trip maximum short-circuit current breaking capacity (lcu)	
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V	0 kA
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V	0 kA 0 kA

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14LPU32HH}$

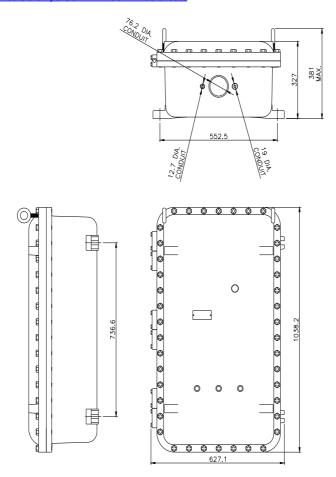
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32HH

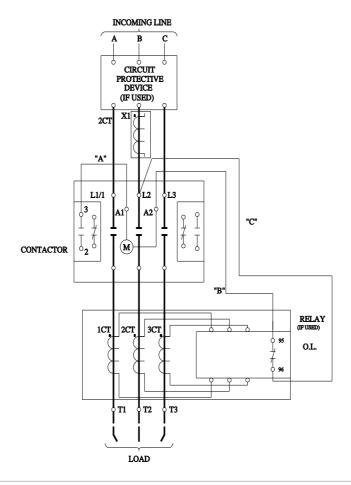
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14LPU32HH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14LPU32HH/certificate





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