## SIEMENS

## Data sheet

## US2:14JUH32BA



Non-reversing motor starter, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Dual voltage coil
General technical data	
weight [lb]	35 lb
Height x Width x Depth [in]	25 × 14 × 9 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
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	40 hp
<ul> <li>at 220/230 V rated value</li> </ul>	50 hp
• at 460/480 V rated value	100 hp
• at 575/600 V rated value	100 hp
Contactor	
size of contactor	NEMA controller size 4
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	135 A
mechanical service life (operating cycles) of the main contacts typical	500000
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	7
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 60 Hz rated value	110 240 V
holding power at AC minimum	22 W
apparent pick-up power of magnet coil at AC	510 VA
apparent holding power of magnet coil at AC	51 VA

operating range factor control supply voltage rated value of	0.85 1.1
magnet coil	0.05 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	18 34 ms
OFF-delay time	10 12 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	Yes
<ul> <li>ground fault detection</li> </ul>	Yes
<ul> <li>test function</li> </ul>	Yes
external reset	Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	50 200 A
tripping time at phase-loss maximum	3 s
relative repeat accuracy	1 %
product feature protective coating on printed-circuit board	Yes
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	5.4
• 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)	200.1/
with single-phase operation at AC rated value	600 V 300 V
with multi-phase operation at AC rated value	300 V
Enclosuro	
Enclosure	1
degree of protection NEMA rating	1
degree of protection NEMA rating design of the housing	1 Indoor general purpose use
degree of protection NEMA rating design of the housing Mounting/wiring	Indoor general purpose use
degree of protection NEMA rating design of the housing Mounting/wiring mounting position	Indoor general purpose use Vertical
degree of protection NEMA rating         design of the housing         Mounting/wiring         mounting position         fastening method	Indoor general purpose use 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	Indoor general purpose use Vertical
degree of protection NEMA rating         design of the housing         Mounting/wiring         mounting position         fastening method	Indoor general purpose use 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 for	Indoor general purpose use Vertical Surface mounting and installation Box lug 200 200 lbf·in
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 for         AWG cables single or multi-stranded	Indoor general purpose use Vertical Surface mounting and installation Box lug 200 200 lbf·in 1x(6 AWG - 250 MCM)
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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 [Ibf-in] for supply         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder	Indoor general purpose use Vertical Surface mounting and installation Box lug 200 200 lbf-in 1x(6 AWG - 250 MCM) 75 °C CU Box lug
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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 for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor for load-side outgoing feeder         type of connectable conductor for load-side outgoing feeder         type of electrical connection for load-side outgoing feeder         maximum permissible         material of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         tightening torque [lbf-in] at magnet coil         type of connectable conductor cross-sections of magnet coil for	Indoor general purpose use         Vertical         Surface mounting and installation         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         screw-type terminals         5 12 lbf-in
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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 for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor cross-sections for AWG cables         for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         maximum permissible         material of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         tightening torque [lbf-in] at magnet coil         type of connectable conductor cross-sections of magnet coil for         AWG cables single or multi-stranded         temperature of the conductor at magnet coil maximum         permissible	Indoor general purpose use         Vertical         Surface mounting and installation         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         Box lug         200 200 lbf-in         1x(6 AWG - 250 MCM)         75 °C         CU         screw-type terminals         5 12 lbf-in         2 x (16 - 12 AWG)         75 °C
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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 for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor cross-sections for AWG cables         for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         type of connectable conductor cross-sections of magnet coil for         AWG cables single or multi-stranded         temperature of the conductor at magnet coil         type of connectable conductor at magnet coil maximum         permissible         material of the conductor at magnet coil         type of electrical connection for auxiliary contacts	Indoor general purpose use Vertical Surface mounting and installation Box lug 200 200 lbf-in 1x(6 AWG - 250 MCM) 75 °C CU Box lug 200 200 lbf-in 1x(6 AWG - 250 MCM) 75 °C CU Screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C CU screw-type terminals 10 15 lbf-in

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 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	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)	Thermal magnetic circuit breaker
	Thermal magnetic circuit breaker 10 kA
maximum short-circuit current breaking capacity (lcu)	
maximum short-circuit current breaking capacity (Icu) • at 240 V	10 kA
maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V	10 kA 10 kA

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=US2:14JUH32BA

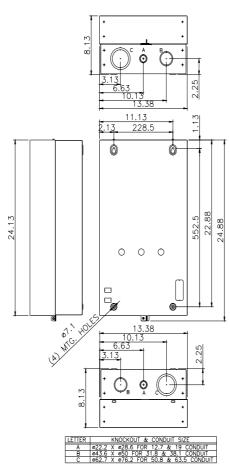
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14JUH32BA

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14JUH32BA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14JUH32BA/certificate



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