SIEMENS

Data sheet

US2:14GP32AA91



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 60A, 110 120/220 240VAC 60Hz coil, Non-combination type, Enclosure type (open), No enclosure

Fig	ure	simil	ar
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product brand name Class 14.8.22 design of the product Full-voltage non-reversing motor starter special product feature Half-size starter, Dual voltage coll Contrait technical data		
special product feature Half-size starter; Dual voltage coil Ceneral technical data Height XWdrk Depth [n] 8.38 × 5.75 × 4 in Louch protection against electrical shock Not finger-safe installation altitude [t] at height above sea level maximum 6560 ft ambient temperature [rF] -22 +149 "F • during storage -22 +149 "F • during storage -30 +65 °C • at 220/208 V rated value 30 hp • at 220/230 V rated value 30 hp • at 575/600 V rated value 20 hp • at 450/480 V rated value <td< td=""><td>product brand name</td><td>Class 14 & 22</td></td<>	product brand name	Class 14 & 22
General technical data Height X Widh x Deph [in] 8.38 × 5.75 × 4 in touch protection against electrical shock Not finger-safe installation altitude [it] at height above sea level maximum 6560 ft ambient temperature [7F] • during storage -22 +149 "F • during operation -4 +104 "F ambient temperature • during operation -20 +40 "C Horsepower ratings -30 +65 "C -20 +40 "C Vielded mechanical performance [hp] for single-phase AC motor -at 575600 V rated value 30 hp • at 200230 V rated value 30 hp	design of the product	Full-voltage non-reversing motor starter
Height x Widh x Depth [in] 8.38 × 5.75 × 4 in touch protection against electrical shock Not finger-safe installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [TF] -22 +149 "F • during operation -4 +104 "F ambient temperature -30 +65 "C • during operation -20 +40 "C Horsepower ratings -30 +65 "C • during operation -20 +40 "C Horsepower ratings -30 +65 "C • at 200/208 V rated value 20 hp • at 202/208 V rated value 20 hp • at 202/208 V rated value 30 hp • at 200/208 V rated value 30 hp • at 460/480 V rated value 30 hp • at 3575/600 V rated value 30 hp • at 3575/600 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 3575/600 V rated value 50 hp • at 3575/600 V rated value 60 A operating vol	special product feature	Half-size starter; Dual voltage coil
touch protection against electrical shock Not finger-safe installation altitude [II] at height above sea level maximum 6560 ft ambient temperature ['F] - • during operation -4 +104 "F ambient temperature -4 +104 "C Horsepower ratings -20 +40 °C Horsepower ratings -20 +40 °C + during operation -20 +40 °C • at 200/208 V rated value 15 hp • at 200/208 V rated value 20 hp • at 200/208 V rated value 30 hp • at 250/208 V rated value 30 hp • at 200/208 V rated value 15 hp • at 200/208 V rated value 10 hp • at 200/208 V rated value 30 hp • at 200/208 V rated value 10 hp • at 200/208 V rated value 10 hp • at 200/208 V rated value 10 hp <	General technical data	
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• during operation 4 +104 °F ambient temperature -30 +65 °C • during operation -20 +40 °C Horsopower ratings -20 +40 °C yielded mechanical performance [hp] for single-phase AC motor - • at 200/208 V rated value 15 hp • at 220/230 V rated value 30 hp • at 420/480 V rated value 30 hp • at 420/280 V rated value 30 hp • at 420/280 V rated value 30 hp • at 220/280 V rated value 30 hp vielded mechanical performance [hp] for 3-phase AC motor - • at 220/280 V rated value 30 hp vielded mechanical performance [hp] for 3-phase AC motor - • at 220/280 V rated value 30 hp • at 220/280 V rated value 30 hp • at 200/280 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • contactor - size of contactor Controller half size 2 1/2 number of NC contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 60 A macinnum <td>ambient temperature [°F]</td> <td></td>	ambient temperature [°F]	
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• during storage -30 +65 °C • during operation -20 +40 °C Horsopower ratings -20 +40 °C yielded mechanical performance [hp] for single-phase AC motor 15 hp • at 200/208 V rated value 20 hp • at 200/208 V rated value 30 hp • at 460/480 V rated value 30 hp • at 450/208 V rated value 30 hp • at 200/208 V rated value 30 hp yielded mechanical performance [hp] for 3-phase AC motor - • at 200/208 V rated value 20 hp • at 200/208 V rated value 20 hp • at 200/208 V rated value 30 hp • at 200/208 V rated value 30 hp • at 450/480 V rated value 30 hp • parting voltage for main current circuit at AC at 60 Hz 3 • parting voltage for main current circuit at AC at 60 Hz 60 A mechanical service life (operating cycles) of the main contacts 10000000	 during operation 	-4 +104 °F
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yielded mechanical performance [hp] for single-phase AC motor 15 hp • at 200/208 V rated value 20 hp • at 480/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 575/600 V rated value 30 hp • yielded mechanical performance [hp] for 3-phase AC motor 0 hp • at 200/208 V rated value 20 hp • at 220/230 V rated value 20 hp • at 450/480 V rated value 30 hp • at 575/600 V rated value 30 hp • at 575/600 V rated value 60 N operating voltage for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 60 A operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts 10000000	during operation	-20 +40 °C
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• at 220/230 V rated value 20 hp • at 460/480 V rated value 30 hp • at 575/600 V rated value 30 hp yielded mechanical performance [hp] for 3-phase AC motor • • at 200/208 V rated value 15 hp • at 220/230 V rated value 20 hp • at 260/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 575/600 V rated value 60 V • at 30 pp 600 V • at 30 pp 600 V • at 575/600 V rated value 60 A • at 575/600 V rated value 60 A	yielded mechanical performance [hp] for single-phase AC motor	
• at 460/480 V rated value 30 hp • at 575/600 V rated value 30 hp yielded mechanical performance [hp] for 3-phase AC motor - • at 200/208 V rated value 15 hp • at 220/230 V rated value 20 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 4575/600 V rated value 30 hp • at 575/600 V rated value 60 V maximum 600 V maximum 600 A mechanical service life (operating cycles) of the main contacts 10000000 typical 10000000 Auxiliary contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts maximum 7	• at 200/208 V rated value	15 hp
• at 575/600 V rated value 30 hp yielded mechanical performance [hp] for 3-phase AC motor 15 hp • at 200/208 V rated value 20 hp • at 220/230 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 460/480 V rated value 30 hp • at 575/600 V rated value 30 hp contactor Controller half size 2 1/2 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts 10000000 typical 10000000 Auxiliary contact 0 number of NC contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts of contactor according to UL 10A@600	• at 220/230 V rated value	20 hp
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Contactor size of contactor Controller half size 2 1/2 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 60 A operational current at AC at 600 V rated value 60 A mechanical service life (operating cycles) of the main contacts typical 10000000 Auxiliary contact 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contact for auxiliary contacts 1 number of NO contacts at contact 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 Keep of voltage of the control supply voltage AC	• at 460/480 V rated value	30 hp
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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	number of NC contacts at contactor for auxiliary contacts	0
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	number of NO contacts at contactor for auxiliary contacts	1
Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage AC	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
	Coil	
control supply voltage	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	8.6 W
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 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	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
 overload protection 	Yes
test function	Yes
external reset	No
reset function	Manual and automatic
adjustment range of thermal overload trip unit	0.85 1.15
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	10 A
• at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to UL	10A@600VAC (A600), 5A@250VDC (P300)
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	45 45 lbf·in
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	35 50 lbf-in
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf-in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 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-type terminals
tightening torque [lbf-in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
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	5 12 lbf-in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2x (16 12 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
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 kA

•	at	480	V
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• at 600 V

10 kA

10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14

certificate of suitability

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=US2:14GP32AA91

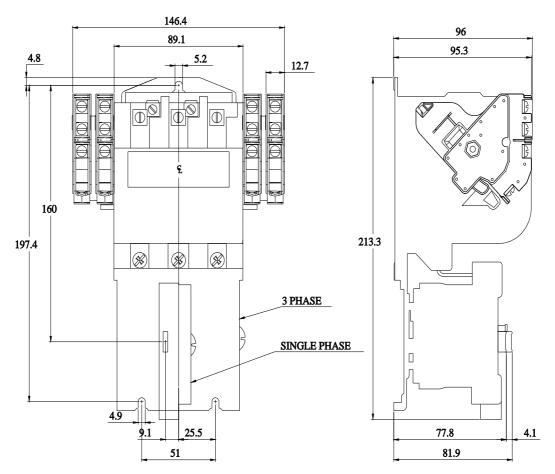
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

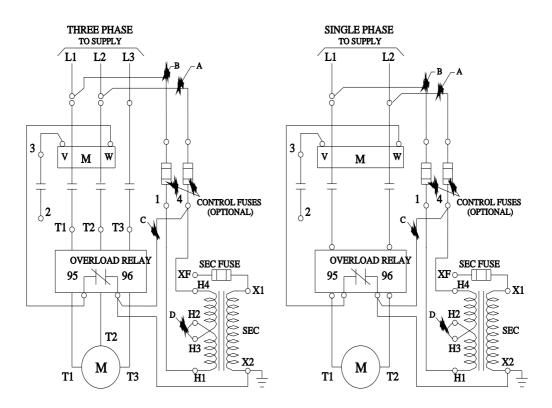
https://support.industry.siemens.com/cs/US/en/ps/US2:14GP32AA91

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GP32AA91&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14GP32AA91/certificate





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