SIEMENS

Data sheet US2:14IP320A81



Non-reversing motor starter, Size 3 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 115A, Non-combination type, Enclosure type 12, Dust/drip proof for indoors

product brand name	Class 14 & 22
design of the product	Full-voltage non-reversing motor starter
special product feature	Half-size starter; Dual voltage coil
General technical data	
weight [lb]	33 lb
Height x Width x Depth [in]	26 × 13 × 8 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	30 hp
• at 220/230 V rated value	40 hp
• at 460/480 V rated value	75 hp
• at 575/600 V rated value	75 hp
Contactor	
size of contactor	Controller half size 3 1/2
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	115 A
mechanical service life (operating cycles) of the main contacts typical	5000000
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	14 W
apparent pick-up power of magnet coil at AC	310 VA
apparent holding power of magnet coil at AC	26 VA

operating range factor control supply voltage and value of magnet coil percental drop-out voltage of magnet coil related to the input voltage of magnet coil to the conductor of auditive voltage of the voltage of voltage of the voltag		
Short-delay time 2641 ms OFF-delay time 1419 ms Overload rotection • overload protection • overload prot		0.85 1.1
OFF-delay time Overload protection overload respective		50 %
product function	ON-delay time	26 41 ms
product function	OFF-delay time	14 19 ms
• overload protection • test function • external reset • external reset • external reset • external reset • yes • and adjustment range of thermal overload trip unit on. on. Occuration of auxiliary contacts of overload relay • at AC at 500 V • at DC at 250 V och at Ca 250 V contact retting of auxiliary contacts of overload relay according to U. degree of protection NEMA rating degree of protection NEMA rating degree of protection NEMA rating degree of protection of the housing Mounting writing mounting position Surface mounting and installation type of electrical connection for supply voltage line-side tightering torque [btrin] for supply yet large the conductor for supply yeb of electrical connection for supply maximum permissible material of the conductor for supply yeb of electrical connection for load-side outgoing feeder tightering torque [btrin] for load-side outgoing feeder tighteri	Overload relay	
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tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG) 75 °C CU Screw-type terminals 2x (16 12 lbf-in 2x (16 12 AWG) 75 °C CU Short-circuit current rating 10kA@600V (Class H or K); 100kA@600V (Class R or J)		Screw-type terminals
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temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf·in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required 75 °C CU To C To	type of connectable conductor cross-sections at contactor for	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Short-circuit current rating 10kA@600V (Class H or K); 100kA@600V (Class R or J)	temperature of the conductor at contactor for auxiliary contacts	75 °C
type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Short-circuit current rating 10kA@600V (Class H or K); 100kA@600V (Class R or J)	·	CU
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type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible 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)		5 12 lbf-in
temperature of the conductor at overload relay for auxiliary contacts maximum permissible 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)	type of connectable conductor cross-sections at overload relay	
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)	temperature of the conductor at overload relay for auxiliary	75 °C
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)	·	CU
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 fuse link for short-circuit protection of the main	10kA@600V (Class H or K); 100kA@600V (Class R or J)
DESIGN OF THE SUBJECTION OF THE SUBJECT OF THE SUBJ	design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)		Thormal magnetic circuit broaker
at 240 V 14 kA		14 kA
• at 600 V 10 kA		
certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14 Further information	·	INEIVIA 103 2, UL 300, USA 22.2, INO. 14

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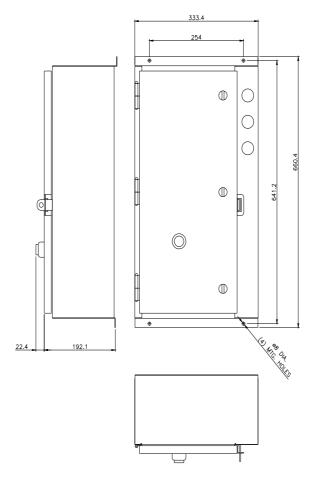
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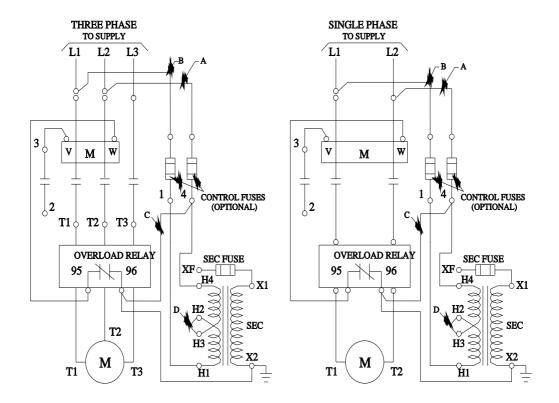
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