SIEMENS

Data sheet

US2:22IP320J81



Reversing motor starter Size 3 1/2 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 115Amp 24VAC 50-60HZ coil Non-combination type Enclosure NEMA type 12 Dust/drip proof for indoors

Fi	CUL	100	E i	mi	lar

product brand name	Class 14 & 22			
design of the product	Full-voltage reversing motor starter			
special product feature	Half-size starter			
General technical data				
weight [lb]	53.8 lb			
Height x Width x Depth [in]	25 × 17 × 7 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	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 50 Hz rated value	24 V			
• at AC at 60 Hz rated value	24 V			
holding power at AC minimum	14 W			

annarent nick-up nower of magnet coil at AC	310 VA		
apparent pick-up power of magnet coil at ACapparent holding power of magnet coil at AC	26 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	26 41 ms		
OFF-delay time	14 19 ms		
Overload relay			
product function			
overload protection	Yes		
• test function	Yes		
external reset	Yes		
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	3		
number of NO contacts of auxiliary contacts of overload relay	0		
operational current of auxiliary contacts of overload relay			
• at AC at 600 V	5 A		
• at DC at 250 V	5 A		
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 5A@250VDC (P300)		
Enclosure			
degree of protection NEMA rating	12		
design of the housing	dustproof and drip-proof for indoor use		
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	120 120 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		
type of electrical connection at overload relay for auxiliary	CU Screw-type terminals		
contacts			
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	10 kA		
• at 600 V	10 kA		

certificate of suitability

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=US2:22IP320J81

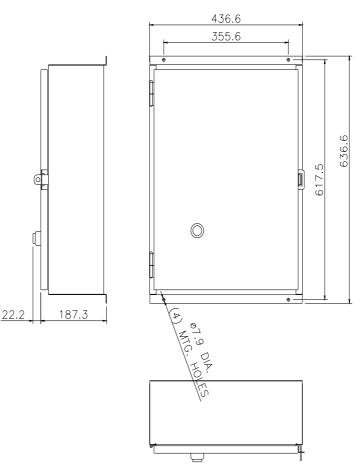
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:22IP320J81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22IP320J81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22IP320J81/certificate





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