SIEMENS

Data sheet

US2:22HP320H81



Reversing motor starter, Size 3, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 90A, Non-combination type, Enclosure type 12, Dust/drip proof for indoors

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product brand name	Class 14 & 22
design of the product	Full-voltage reversing motor 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	25 hp
• at 220/230 V rated value	30 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 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	380 440 V
• at AC at 60 Hz rated value	440 480 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 rated value of	0.85 1.1			
magnet coil				
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			
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				
maximum short-circuit current breaking capacity (Icu)				
• at 240 V	0 kA			
• at 480 V	0 kA			
● at 600 V	0 kA			
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14			
Further information				
Industrial Controls - Product Overview (Catalogs, Brochures,) www.usa.siemens.com/iccatalog				
mm.dod.oromono.com/rocataroy				

Industry Mall (Online ordering system)

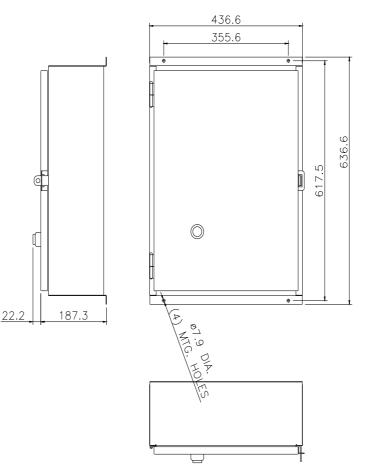
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22HP320H81

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22HP320H81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22HP320H81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22HP320H81/certificate





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