## SIEMENS

## Data sheet

## US2:22HP32WH81



Reversing motor starter, Size 3, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 90A, Non-combination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive

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product brand name	Class 14 & 22
design of the product	Full-voltage reversing motor starter
General technical data	
weight [lb]	55.3 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	
<ul> <li>during storage</li> </ul>	-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	7 10A@600VAC (A600), 5A@600VDC (P600)
contact rating of auxiliary contacts of contactor according to UL Coil	
Coil	10A@600VAC (A600), 5A@600VDC (P600)
Coil type of voltage of the control supply voltage	10A@600VAC (A600), 5A@600VDC (P600)
Coil type of voltage of the control supply voltage control supply voltage	10A@600VAC (A600), 5A@600VDC (P600) AC
Coil type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value	10A@600VAC (A600), 5A@600VDC (P600) AC 380 440 V

apparent holding neuror of magnet soil at AC	26.1/4	
apparent 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		
<ul> <li>overload protection</li> </ul>	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	4X, 304 stainless steel	
design of the housing	dustproof, waterproof & resistant to corrosion	
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 (lcu)		
• 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		

Industry Mall (Online ordering system)

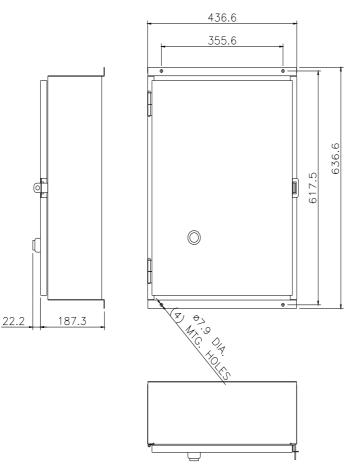
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22HP32WH81

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22HP32WH81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22HP32WH81&lang=en

Certificates/approvals

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