SIEMENS

Data sheet US2:22IP32WF81

	Reversing motor starter, Size 3 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 115A, 110V 50Hz / 120V 60Hz coil, Noncombination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive		
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]	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			
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 50 Hz rated value	110 V		
at AC at 60 Hz rated value	120 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 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		

And for all an	V		
• 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 for	2x (16 12 AWG)		
AWG cables single or multi-stranded			
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 for 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 for 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	NEMA ICS 2; UL 508; CSA 22.2, No.14		
Further information			

Industrial Controls - Product Overview (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22IP32WF81

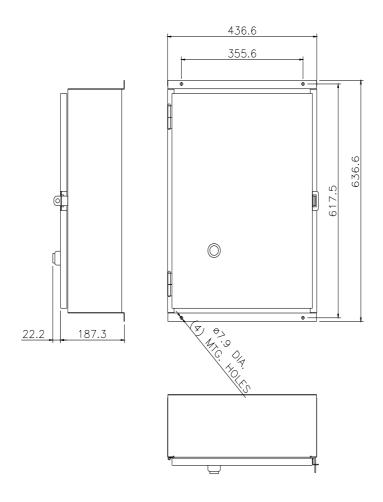
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22IP32WF81

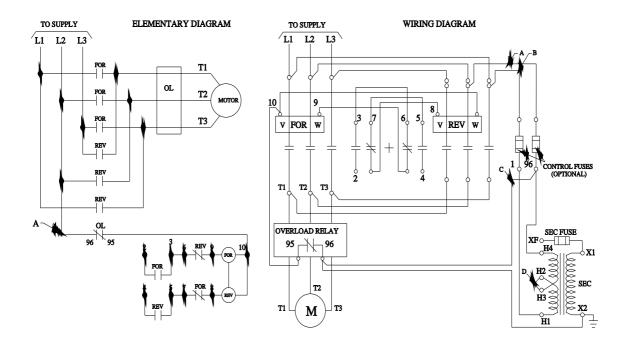
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

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Certificates/approvals

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