SIEMENS

Data sheet

US2:22GP32WH81



Reversing motor starter, Size 2 1/2, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 60A, 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		
special product feature	Half-size starter		
General technical data			
weight [lb]	21.8 lb		
Height x Width x Depth [in]	16 × 13 × 6 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	15 hp		
 at 220/230 V rated value 	20 hp		
 at 460/480 V rated value 	30 hp		
• at 575/600 V rated value	30 hp		
Contactor			
size of contactor	Controller half size 2 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	60 A		
mechanical service life (switching cycles) of the main contacts typical	1000000		
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			

	000 440 14		
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	8.6 W		
apparent pick-up power of magnet coil at AC	218 VA		
apparent holding power of magnet coil at AC	25 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	19 29 ms		
OFF-delay time	10 24 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	1		
number of NO contacts of auxiliary contacts of overload relay	0		
operational current of auxiliary contacts of overload relay			
• at AC at 600 V	10 A		
● at DC at 250 V	5 A		
contact rating of auxiliary contacts of overload relay according to UL	10A@600VAC (A600), 5A@250VDC (P300)		
Enclosure			
degree of protection NEMA rating	4X, 304 stainless steel		
design of the housing	dustproof, waterproof & resistant to corrosion		
Mounting/wiring			
	Vertical		
mounting position	Vertical Surface mounting and installation		
mounting position fastening method	Surface mounting and installation		
mounting position fastening method type of electrical connection for supply voltage line-side			
mounting position fastening method	Surface mounting and installation Box lug		
mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply temperature of the conductor for supply maximum	Surface mounting and installation Box lug 45 45 lbf·in		
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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)				
design of the short-circuit trip	Thermal magnetic circuit breaker				
breaking capacity maximum short-circuit current (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,) www.usa.siemens.com/iccatalog Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22GP32WH81 Service&Support (Manuals, Certificates, Characteristics, FAQs,)					

https://support.industry.siemens.com/cs/US/en/ps/US2:22GP32WH81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22GP32WH81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22GP32WH81/certificate

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