SIEMENS

Data sheet

US2:18GUG82XA



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 25-100A, Combination type, 100A circuit breaker, Encl NEMA type 4X 316 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

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product brand name	Class 18 & 26		
design of the product	Full-voltage non-reversing motor starter with motor circuit protector		
special product feature	ESP200 overload relay; Half-size controller; Dual voltage coil		
General technical data			
Height x Width x Depth [in]	36 × 24 × 8 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		
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			
• at AC at 60 Hz rated value	110 240 V		
holding power at AC minimum	8.6 W		

apparent pick up power of megnet cell at A.C.	210 \/A
apparent pick-up power of magnet coil at AC	218 VA 25 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value	0.85 1.1
of magnet coil percental drop-out voltage of magnet coil related to the	50 %
input voltage	
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	25 100 A
make time with automatic start after power failure maximum	3 s
relative repeat accuracy	1 %
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Enclosure	
degree of protection NEMA rating	4X, 304 stainless steel
design of the housing	dustproof, waterproof & resistant to corrosion
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
	Motor circuit protector (magnetic trip only) 100 A
type of the motor protection	
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	100 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	100 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring	100 A 315 1000 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position	100 A 315 1000 A Vertical
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method	100 A 315 1000 A Vertical Surface mounting and installation
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side	100 A 315 1000 A Vertical Surface mounting and installation Box lug
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at AWG cables for auxiliary contacts single or multi- stranded					
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	7 10 lbf·in				
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (20 14 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 short-circuit trip	Instantaneous trip circuit breaker				
breaking capacity maximum short-circuit current (Icu)					
• at 240 V	100 kA				
• at 480 V	100 kA				
• at 600 V	25 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=US2:18GUG82XA					
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