## SIEMENS

## Data sheet

## US2:18GUG82XG



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state 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

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
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
<ul> <li>during operation</li> </ul>	-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 (operating 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 50 Hz rated value	190 220 V
• at AC at 60 Hz rated value	220 240 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	0.85 1.1



magnet coil	0 %
percental drop-out voltage of magnet coil related to the input 50 voltage	0 %
	9 29 ms
· · · · · · · · · · · · · · · · · · ·	0 24 ms
Overload relay	
reset function N	lanual, automatic and remote
trip class C	LASS 5 / 10 / 20 (factory set) / 30
	5 100 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	
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	A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
	00 V
· · · · · · · · · · · · · · · · · · ·	00 V
Enclosure	
	X, 304 stainless steel
	ustproof, waterproof & resistant to corrosion
Circuit Breaker	
	lotor circuit protector (magnetic trip only)
	00 A
short-circuit trip unit	15 1000 A
Mounting/wiring	
mounting position V	ertical
fastening method S	urface mounting and installation
	ox lug
AWG cables single or multi-stranded	x (10 AWG 1/0 AWG)
	5 °C
material of the conductor for supply A	L or CU
	ox lug
	5 45 lbf·in
for load-side outgoing feeder single or multi-stranded	x (14 2 AWG)
maximum permissible	5 °C
5 5	L or CU
	crew-type terminals
	12 lbf·in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	
temperature of the conductor at magnet coil maximum 79 permissible	x (16 12 AWG)
material of the conductor at magnet coil	x (16 12 AWG) 5 °C
type of electrical connection for auxiliary contacts S	5 °C
	5 °C
tightening torque [lbf-in] at contactor for auxiliary contacts	5 °C U crew-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts       1         type of connectable conductor cross-sections at contactor for       1         AWG cables for auxiliary contacts single or multi-stranded       1	5 °C U crew-type terminals 0 15 lbf·in
tightening torque [lbf·in] at contactor for auxiliary contacts11type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded12temperature of the conductor at contactor for auxiliary contacts maximum permissible72	5 °C U crew-type terminals 0 15 lbf in x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
tightening torque [lbf·in] at contactor for auxiliary contacts       11         type of connectable conductor cross-sections at contactor for       11         AWG cables for auxiliary contacts single or multi-stranded       12         temperature of the conductor at contactor for auxiliary contacts       73         maximum permissible       74         material of the conductor at contactor for auxiliary contacts       74	5 °C U crew-type terminals 0 15 lbf in x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 5 °C
tightening torque [lbf·in] at contactor for auxiliary contacts11type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded11temperature of the conductor at contactor for auxiliary contacts73maximum permissible74material of the conductor at contactor for auxiliary contacts74type of electrical connection at overload relay for auxiliary8contacts8	5 °C U crew-type terminals 0 15 lbf in x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 5 °C U

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
maximum short-circuit current breaking capacity (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)

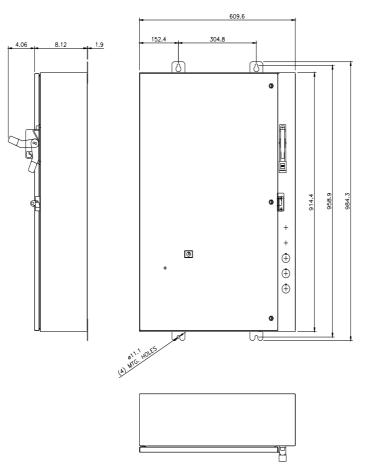
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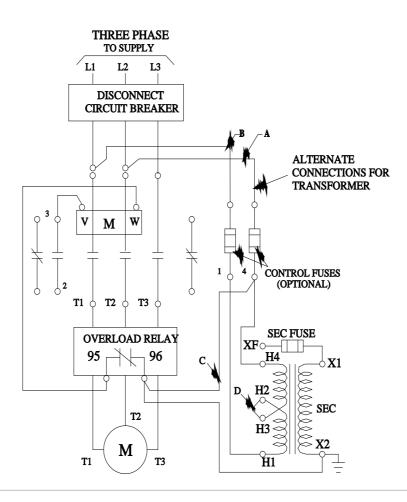
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG82XG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18GUG82XG&lang=en

Certificates/approvals

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