SIEMENS

Data sheet

US2:18GUG82XL



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 240V 50Hz / 277V 60Hz coil, 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
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 (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	240 V
• at AC at 60 Hz rated value	277 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 50 % 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 reset function 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 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 outperational current of auxiliary contacts of overload relay 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
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UL insulation voltage (Ui)
with single-phase operation at AC rated value 600 V
with multi-phase operation at AC rated value 300 V
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)
operational current of motor circuit breaker rated value 100 A
adjustable current response value current of instantaneous short-circuit trip unit 315 1000 A
Mounting/wiring
mounting position Vertical
fastening method Surface mounting and installation
type of electrical connection for supply voltage line-side Box lug
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (10 AWG 1/0 AWG)
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 Box lug
tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder 75 °C
material of the conductor for load-side outgoing feeder AL or CU
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 2x (16 12 AWG)
temperature of the conductor at magnet coil maximum 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 Screw-type terminals contacts
tightening torque [lbf-in] at overload relay for auxiliary contacts 7 10 lbf-in
type of connectable conductor cross-sections at overload relay for 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
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)

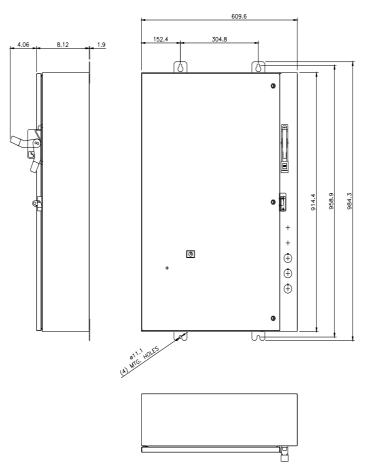
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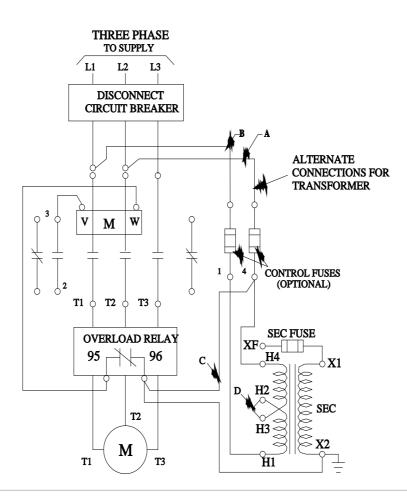
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG82XL

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18GUG82XL&lang=en

Certificates/approvals

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