SIEMENS

Data sheet US2:17GUG82WC13



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 60A fusible disconnect, 60A/600V fuse clip, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

product brand name	Class 17	
design of the product	Non-reversing motor starter with fusible disconnect	
special product feature	ESP200 overload relay; Half-size controller; Dual voltage coil	
General technical data		
weight [lb]	78 lb	
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	
country of origin	USA	
Horsepower ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V rated value	0 hp	
• at 220/230 V rated value	0 hp	
• at 460/480 V rated value	0 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	10000000	
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	220 480 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	

magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time 10 24 ms Overload relay product function overload protection phase failure detection saymmetry detection ground fault detection test function ves test function Yes test function yes	
voltage ON-delay time OFF-delay time 10 24 ms Overload relay product function overload protection phase failure detection asymmetry detection ground fault detection yes ground fault detection Yes	
OFF-delay time 10 24 ms Overload relay product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes	
Overload relay product function • overload protection • phase failure detection • asymmetry detection • ground fault detection Yes • ground fault detection Yes	
product function • overload protection • phase failure detection • asymmetry detection • ground fault detection Yes • yes	
 overload protection phase failure detection asymmetry detection ground fault detection Yes Yes Yes 	
 phase failure detection asymmetry detection ground fault detection Yes Yes 	
 asymmetry detection ground fault detection Yes 	
• ground fault detection Yes	
• external reset	
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	
tripping time at phase-loss maximum 3 s	
relative repeat accuracy 1 %	
product feature protective coating on printed-circuit board Yes	
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	
Disconnect Switch	
response value of switch disconnector 60A / 600V	
design of fuse holder Class R fuse clips	
operating class of the fuse link Class R	
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 35 35 lbf-in	
type of connectable conductor cross-sections at line-side for 1x (14 2 AWG)	
AWG cables single or multi-stranded	
temperature of the conductor for supply maximum permissible 75 °C	
·	
temperature of the conductor for supply maximum permissible 75 °C	
temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply AL or CU	
temperature of the conductor for supply maximum permissible material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder Box lug	
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 tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables 1x (14 2 AWG)	
temperature of the conductor for supply maximum permissible 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 type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder 75 °C	
temperature of the conductor for supply maximum permissible 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 type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C 1x (14 2 AWG) 75 °C	
temperature of the conductor for supply maximum permissible material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU	
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Screw-type terminals	
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)	
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum 75 °C	
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible 75 °C 2x (16 12 AWG)	

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	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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
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)

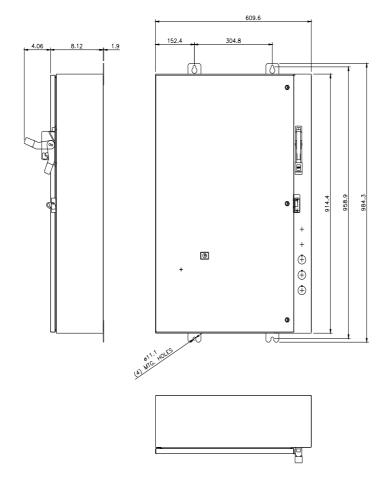
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17GUG82WC13

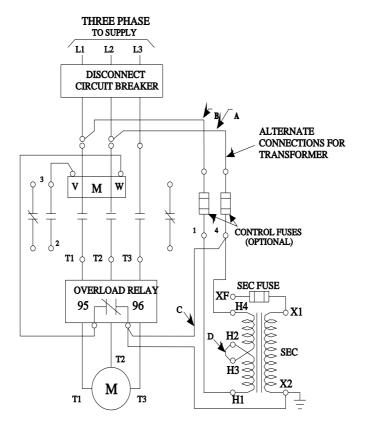
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82WC13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17GUG82WC13&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82WC13/certificate





D68782001

last modified: 1/25/2022 🖸