SIEMENS

Data sheet US2:17HUG82WG14



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 100A fusible disconnect, 100A/250V 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
General technical data	
weight [lb]	82 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	20 hp
• at 220/230 V rated value	25 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (operating cycles) of the main contacts typical	5000000
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	14 W
apparent pick-up power of magnet coil at AC	310 VA

apparent holding power of magnet coil at AC	26 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	26 41 ms
OFF-delay time	14 19 ms
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
asymmetry detection	Yes
ground fault detection	Yes
• test function	Yes
external reset	Yes
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
with multi-phase operation at AC rated value Disconnect Switch	300 V
· · · · · · · · · · · · · · · · · · ·	300 V 100A / 250V
Disconnect Switch	
Disconnect Switch response value of switch disconnector	100A / 250V
Disconnect Switch response value of switch disconnector design of fuse holder	100A / 250V Class R fuse clips
response value of switch disconnector design of fuse holder operating class of the fuse link	100A / 250V Class R fuse clips
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	100A / 250V Class R fuse clips Class R
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical Surface mounting and installation
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical Surface mounting and installation Box lug
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical Surface mounting and installation Box lug 120 120 lbf-in
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG)
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response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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	100A / 250V Class R fuse clips Class R 4X, 304 stainless steel dustproof, waterproof & resistant to corrosion vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in
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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 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=US2:17HUG82WG14

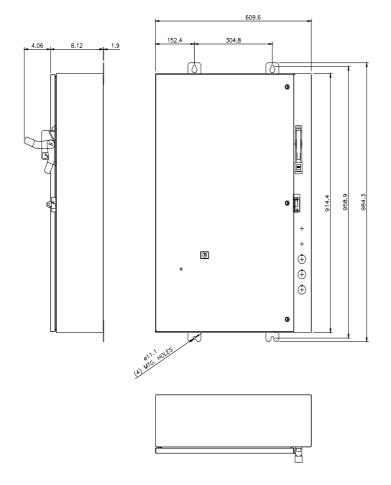
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82WG14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG82WG14&lang=en

Certificates/approvals

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