## SIEMENS

## Data sheet

## US2:17HUG82WF



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Combination type, 100A non-fusible disconnect, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

product brand name	Class 17 & 25
design of the product	Full-voltage non-reversing motor starter with non-fusible disconnect
special product feature	ESP200 overload relay
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	20 hp
• at 220/230 V rated value	25 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
number of NO contacts for main contacts	3
operational current at AC at 600 V rated value	90 A
mechanical service life (operating cycles) of the main contacts typical	500000
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), 2.5A@300VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	-
• at AC at 50 Hz rated value	110 V
• at AC at 60 Hz rated value	120 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	50 %

ON-delay time     26 41 ms       OPF-datay time     14 19 ms       Overload elay     ************************************	voltage	
Overload relay         overload protection         • overload protection         • phase filture detection         • phase filture detection         • asymmetry detection         • estimate detection		26 41 ms
product function         Yes           • overfoad protection         Yes           • phase full-inductates of the service o	•	
• overlaad protection     • phase failure detection     • yes     • asymmetry detection     • Yes     • asymmetry detection     • Yes     • asymmetry detection     • Yes     • external reset     • external reset     • Yes     • external reset     • external reset     • Yes     • external reset     • external reset     • external reset     • external reset     • Yes     • external reset     • external reset     • external reset     • external reset     • Yes     • external reset     • externa		
• phase failure detection     Yes       • aymmetry detection     Yes       • ground fault detection     Yes       • test function     Yes       • reset function     Yes       reset function     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     Zs 100 A       relative repeat accuracy     1%       product feature protective coating on printed circuit board     Yes       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       • at DC at 250 V     1A       orthat rating of auxiliary contacts of overload relay according to     5       • with single-phase operation at AC rated value     800 V       • with single-phase operation at AC rated value     800 V       • with single-phase operation at AC rated value     900 V       • with single-phase operation at AC rated value     800 V <b>Desconnect Watch</b> non-fusible <b>Tercolorut</b> design of the locuing       design of the locuing     4.304       design of the locuing     dustproof, weterproof & resistant to corosi		
e asymmetry detection         Yes         inst Munction         Yes         inst Munction         Yes         inst Munction         Yes         reset function         reset         reset	overload protection	Yes
eground fault detection         Yes         external resch         external resch         external resch         external resch         external resch         external         extrera         external	phase failure detection	Yes
test function         Yes         external reset         ves         external         ves         ves         external         ves         v	asymmetry detection	Yes
• external reset         Yes           reset function         Manual, automatic and remote           trip class         CLASS 57 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent overtoad release         25 100 A           make time with automatic start after power failure 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           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1A           contact rating of auxiliary contacts of overload relay according to         5           U.         insulation voltage (Ui)         600 V           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           • esponse value of switch disconnector         100           design of the housing         4, 304           design of the housing         4, 304           design of the housing         5 ° ° C <td>ground fault detection</td> <td>Yes</td>	ground fault detection	Yes
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tightening torque [lbf-in] for load-side outgoing feeder       120 120 lbf-in         type of connectable conductor cross-sections for AWG cables       1         for load-side outgoing feeder single or multi-stranded       1         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 for AWG cables for load-side outgoing feeder single or multi-stranded       1         temperature of the conductor for load-side outgoing feeder maximum permissible       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		· ·
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         type of electrical connection of magnet coil         Screw-type terminals         tightening torque [lbf-in] at magnet coil		
maximum permissible     AL or CU       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	for load-side outgoing feeder single or multi-stranded	75 °C
type of electrical connection of magnet coil       Screw-type terminals         tightening torque [lbf·in] at magnet coil       5 12 lbf·in		
tightening torque [lbf·in] at magnet coil 5 12 lbf·in		
type of connectable conductor cross-sections of magnet coil for 2		
AWG cables single or multi-stranded	AWG cables single or multi-stranded	
temperature of the conductor at magnet coil maximum 75 °C		75 °C
material of the conductor at magnet coil CU	•	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	type of connectable conductor cross-sections at contactor for	
temperature of the conductor at contactor for auxiliary contacts 75 °C maximum permissible	temperature of the conductor at contactor for auxiliary contacts	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	2
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	10
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=US2:17HUG82WF

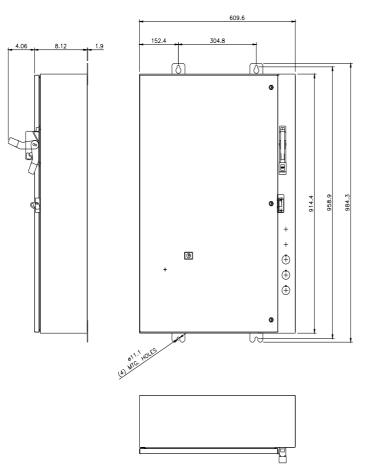
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82WF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17HUG82WF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82WF/certificate





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