SIEMENS

Data sheet US2:14HUG82WC



Non-reversing motor starter Size 3 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 220-240/440-480VAC 60HZ coil Combination type Water/dust tight non-corrosive

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Dual voltage coil
General technical data	
weight [lb]	49 lb
Height x Width x Depth [in]	26 × 13 × 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	25 hp
• at 220/230 V rated value	30 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
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), 2.5A@300VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC
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

ON-douly time 28 41 ms OVerload protection Overload protection • overload protection	nercental dron-out voltage of magnet coil related to the input	50 %
Overload protection • overload protection • overload protection • overload protection • oper self-alture detection • oper self-alture detection • oper self-alture detection • pass self-alture detection • pass self-alture detection • rest function • re	percental drop-out voltage of magnet coil related to the input voltage	JU /6
product function overload protection overload	ON-delay time	26 41 ms
product function • overload protection • phase failure detection • phase failure detection • phase failure detection • symmetry detection • symmetry detection • service and stud detection • set function • test function • exterial reset • exterial reset • ves reset function	OFF-delay time	14 19 ms
• overload protection • phase failure detection • paymentry detection • caymentry detection • caymentry detection • rest function • external reset • Yes • CLASS 5 / 10 / 20 (featory set) / 30 adjustable current response value current of the current-dependent overfoad release tripping time at phase-loss maximum • product feature protective coating on printed-circuit board • product feature protective coating on printed-circuit board • pumber of NO contacts of auxiliary contacts of overload relay • at NO at 1000 V • at DO at 1000 V • at DO at 2500 V • with single-phase operation at AC rated value • with multi-phase operation of AC rated val	Overload relay	
• phase failure detection • asymmetry detection • grand fault detection • test function • test function • test function • external reset • reset shinction • particular sease reset shinction fur class reset shinction reset shincting reset shinction reset shinction reset shinction	product function	
asymmetry detection ground fault detection rest function external reset Yes reset function Amount of the control of the current of auxiliary contacts of overload relay product feature protective coaling on printed-circuit board number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 800 V at DC at 250 V at DC at 250 V with multi-phase operation at AC rated value with multi-phase operation of AC rated value	overload protection	Yes
• ground fault detection • test function • external reset • Experiment reset • Experiment reset • Experiment reset • Experiment response value current of the current dependent or verifical reliables dependent or verifical reliables firping time at phase-loss maximum 7 cleative repeat accuracy 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 %	phase failure detection	Yes
Ves vextrenal reset ves reset function Manual, automatic and remote ves reset function Manual, automatic and remote ves reset function Manual, automatic and remote ves v	asymmetry 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 tripping time at phase-loss maximum 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 NC contacts of auxiliary contacts of overload relay 1 at AC at 600 V 2 at DC at 250 V 3 A contact rating of auxiliary contacts of overload relay according to 1 in AC at 250 V 2 in AC at 250 V 3 A contact rating of auxiliary contacts of overload relay according to 2 in With single-phase operation at AC rated value 8 with multi-phase operation at AC rated value 9 with multi-phase operation of Scale operation of Scale operation of Scale operation of Scale operation operatio	ground fault detection	Yes
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trip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 280 V • at AC at 600 V • at DC at 280 V • on the catalysis of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with multi-phase operation at AC rated value	external reset	Yes
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dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coaling on printed-circuit board Nes number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V	trip class	CLASS 5 / 10 / 20 (factory set) / 30
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at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) with single-phase operation at AC rated value with multi-phase operation at AC rated value besign of the housing design of the housing Extra-wide Extra-wide Extra-wide NEMA 4X 304 stainless steel enclosure design of the housing Dust-tight, watertight & corrosion resistant Mounting/wring mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side bype of electrical connection for supply voltage line-side for AVIC cables single or multi-stranded temperature of the conductor for supply maximum permissible The conductor for supply AL or CU type of electrical connection for load-side outgoing feeder stype of connectable conductor cross-sections for AVIG cables for load-side outgoing feeder stype of connectable conductor of load-side outgoing feeder stype of conne	operational current of auxiliary contacts of overload relay	
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design of the housing Mounting/wiring	design of the housing	Extra-wide
mounting position fastening method surface mounting and installation 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 maximum permissible tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU type of electrical connection 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 screw-type terminals tightening torque [lbf-in] at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	degree of protection NEMA rating of the enclosure	Extra-wide NEMA 4X 304 stainless steel enclosure
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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 load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder side outgoing feeder material of the conductor for load-side outgoing feeder temperature of the conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder 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 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 type of connectable conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	Mounting/wiring	
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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 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 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 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 To °C x (16 - 12 AWG) To °C type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to 15 lbf-in 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	type of electrical connection for supply voltage line-side	Box lug
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 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 for load-side outgoing feeder maximum permissible material of the conductor of 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 material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	tightening torque [lbf·in] for supply	120 120 lbf-in
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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 at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil culti-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	material of the conductor for supply	AL or CU
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 at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil cultivate of the conductor at magnet coil maximum permissible material of the conductor at magnet coil cultivate of the conductor of auxiliary contacts conduct	type of electrical connection for load-side outgoing feeder	Box lug
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 at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
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 material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		1x(14 - 2/0 AWG)
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 material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		75 °C
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 material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	·	AL or CU
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 material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG) 2 x (16 - 12 AWG) CU screw-type terminals 10 15 lbf-in 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		screw-type terminals
AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		2 x (16 - 12 AWG)
material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts 10 15 lbf-in type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		75 °C
tightening torque [lbf·in] at contactor for auxiliary contacts 10 15 lbf·in type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	material of the conductor at magnet coil	CU
type of connectable conductor cross-sections at contactor for 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	type of electrical connection for auxiliary contacts	screw-type terminals
	tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf-in
· •		1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible 75 °C	temperature of the conductor at contactor for auxiliary contacts	75 °C
material of the conductor at contactor for auxiliary contacts CU		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	2 x (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)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 kA
• at 480 V	10 kA
• at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Approvals Certificates	
Test Certificates	



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=US2:14HUG82WC

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

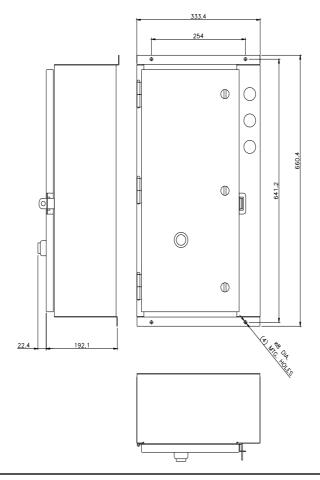
https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82WC

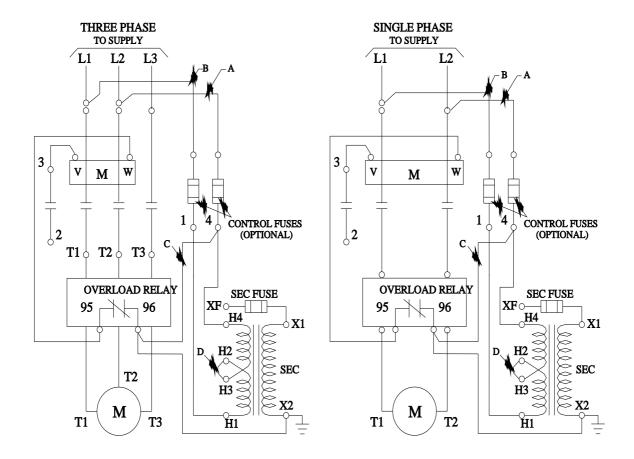
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG82WC&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82WC/certificate





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