SIEMENS

Data sheet US2:14HUG82WJ



Non-reversing motor starter Size 3 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 24VAC 50-60HZ 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	
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), 5A@600VDC (P600)	
Coil		
type of voltage of the control supply voltage	AC	
control supply voltage		
 at AC at 50 Hz rated value 	24 V	
at AC at 60 Hz rated value	24 V	
holding power at AC minimum	14 W	
apparent pick-up power of magnet coil at AC	310 VA	

apparent holding newer of magnet soil at AC	26 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of	0.85 1.1
magnet coil	
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
Enclosure	
design of the housing	Extra-wide
design of the housing degree of protection NEMA rating of the enclosure	Extra-wide Extra-wide NEMA 4X 304 stainless steel enclosure
degree of protection NEMA rating of the enclosure	Extra-wide NEMA 4X 304 stainless steel enclosure
degree of protection NEMA rating of the enclosure design of the housing	Extra-wide NEMA 4X 304 stainless steel enclosure
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf·in
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x(14 - 2/0 AWG) 75 °C
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box rew-type terminals
degree of protection NEMA rating of the enclosure 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	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Sorew-type terminals 5 12 lbf-in
degree of protection NEMA rating of the enclosure 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 AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG)
degree of protection NEMA rating of the enclosure 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 AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C
degree of protection NEMA rating of the enclosure 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 AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C CU
degree of protection NEMA rating of the enclosure 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 AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible	Extra-wide NEMA 4X 304 stainless steel enclosure Dust-tight, watertight & corrosion resistant Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C CU screw-type terminals

maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf·in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14 Further information		
type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability screw-type terminals **Cu:* 10 lbf-in 2 x (20 - 14 AWG) 75 °C CU **Cu:* 10 kA@600V (Class H or K); 100kA@600V (Class R or J) **Thermal magnetic circuit breaker **Thermal magnetic circuit breaker 10 kA 10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14	maximum permissible	
tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	material of the conductor at contactor for auxiliary contacts	CU
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at overload relay for auxiliary contacts maximum permissible 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 design of the short-circuit trip Thermal magnetic circuit breaker maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	**	screw-type terminals
temperature of the conductor at overload relay for auxiliary contacts maximum permissible 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 design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
contacts maximum permissible 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 design of the short-circuit trip Thermal magnetic circuit breaker maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V Certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14		2 x (20 - 14 AWG)
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) at 240 V at 480 V at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14		75 °C
design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) at 240 V at 480 V at 600 V to kA at 600 V certificate of suitability 10kA@600V (Class H or K); 100kA@600V (Class R or J) Thermal magnetic circuit breaker 14 kA 10 kA 10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14	material of the conductor at overload relay for auxiliary contacts	CU
circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V 10 kA certificate of suitability Thermal magnetic circuit breaker 14 kA 10 kA 10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14	Short-circuit current rating	
maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V 10 kA certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14		10kA@600V (Class H or K); 100kA@600V (Class R or J)
 at 240 V at 480 V at 600 V certificate of suitability 14 kA 10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14 	design of the short-circuit trip	Thermal magnetic circuit breaker
 at 480 V at 600 V certificate of suitability 10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14 	maximum short-circuit current breaking capacity (Icu)	
at 600 V 10 kA certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	● at 240 V	14 kA
certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	● at 480 V	10 kA
·	● at 600 V	10 kA
Further information	certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
	Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

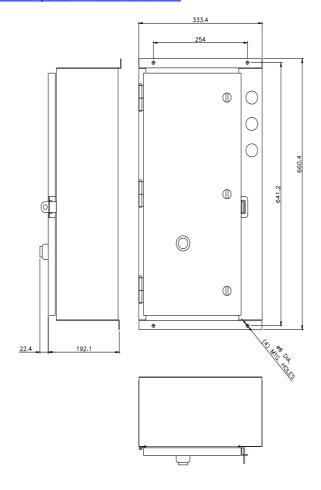
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14HUG82WJ

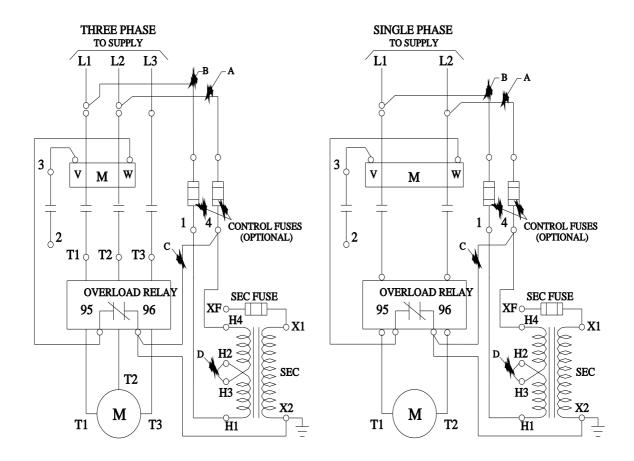
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82WJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG82WJ&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82WJ/certificate





last modified: 11/29/2021 🖸