## **SIEMENS**

Data sheet US2:14IUH820G



Non-reversing motor starter, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLRelay amp range 50-200A, 190 220/220 240V 50/60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Half-size starter
General technical data	
weight [lb]	48 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	
<ul> <li>at 200/208 V rated value</li> </ul>	30 hp
• at 220/230 V rated value	40 hp
<ul> <li>at 460/480 V rated value</li> </ul>	75 hp
<ul> <li>at 575/600 V rated value</li> </ul>	75 hp
Contactor	
size of contactor	Controller half size 3 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	115 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	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	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

apparant holding hower of magnet coil of 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	
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	Yes
<ul> <li>ground fault detection</li> </ul>	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	50 200 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)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Enclosure	
design of the housing	Extra-wide
degree of protection NEMA rating of the enclosure	Extra-wide NEMA Type 12
design of the housing	Extra-wide NEMA Type 12  Dust tight and drip proof for indoors
design of the housing	
design of the housing Mounting/wiring	Dust tight and drip proof for indoors
design of the housing  Mounting/wiring  mounting position	Dust tight and drip proof for indoors  Vertical
design of the housing  Mounting/wiring  mounting position  fastening method	Dust tight and drip proof for indoors  Vertical Surface mounting and installation
design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side	Vertical Surface mounting and installation Box lug
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	Vertical Surface mounting and installation Box lug 120 120 lbf·in
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	Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
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	Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C
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	Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU
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	Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG) 75 °C AL or CU Box lug
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	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
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	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)
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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	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 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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CU
screw-type terminals
7 10 lbf-in
2 x (20 - 14 AWG)
75 °C
CU
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

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

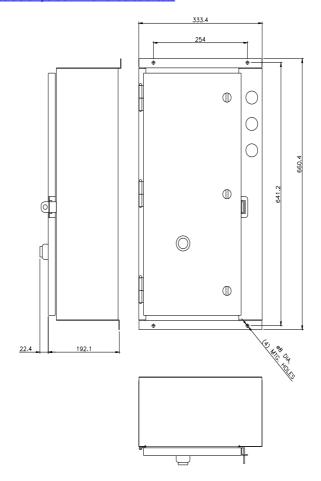
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14IUH820G

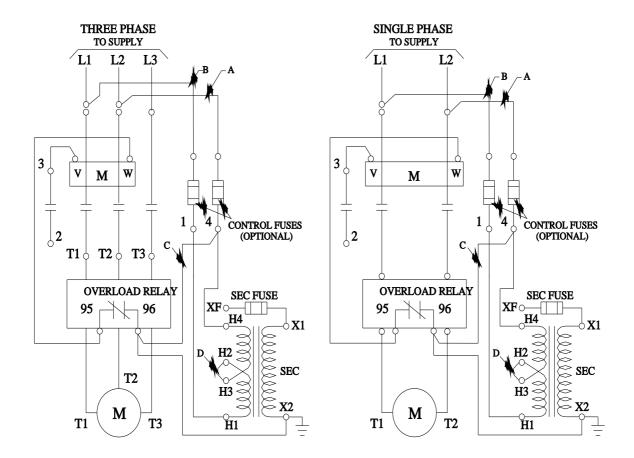
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14IUH820G&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14IUH820G&lang=en</a>

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