## **SIEMENS**

Data sheet US2:14IUH820H



Non-reversing motor starter, Size 3 1/2, Three phase full voltage, Solid-state overload relay, OLRelay amp range 50-200A, 380 440/440 480V 50/60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

product brand name	Class 14
·	Full-voltage non-reversing motor starter
design of the product special product feature	ESP200 overload relay; Half-size starter
General technical data	ESF 200 Overload Telay, Trail-Size Starter
	48 lb
weight [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]	-22 +149 °F
during storage     during sporation	-22 +149 F -4 +104 °F
during operation	-4 +104 F
ambient temperature	-30 +65 °C
during storage     during operation	-30 +40 °C
during operation     country of origin	-20 +40 C
Horsepower ratings	USA
yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value	30 hp
• at 220/230 V rated value	40 hp
• at 460/480 V rated value	75 hp
• at 575/600 V rated value	75 hp
Contactor	75 TIP
size of contactor	Controller half size 3 1/2
	3
number of NO contacts for main contacts	
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>	380 440 V
<ul> <li>at AC at 60 Hz rated value</li> </ul>	440 480 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA

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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
·	50 200 A
adjustable current response value current of the current- dependent overload release	
tripping time at phase-loss maximum	3 \$
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	e.
• 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
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 Type 12
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degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	Extra-wide NEMA Type 12  Dust tight and drip proof for indoors
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degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	Extra-wide NEMA Type 12  Dust tight and drip proof for indoors  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 Type 12  Dust tight and drip proof for indoors  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 Type 12  Dust tight and drip proof for indoors  Vertical  Surface mounting and installation  Box lug  120 120 lbf-in
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maximum permissible	
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 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
Further information	

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

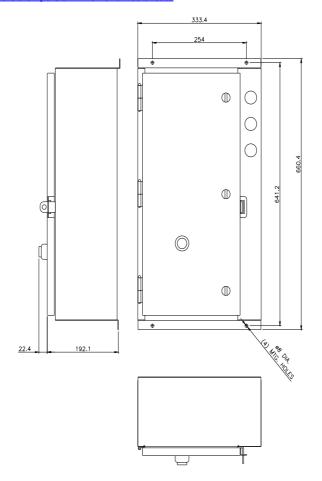
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14IUH820H

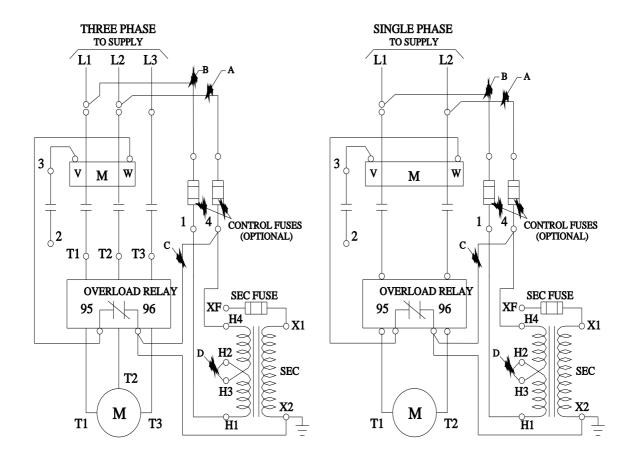
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH820H

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=US2:14IUH820H&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14IUH820H&lang=en</a>

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH820H/certificate





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