SIEMENS

Data sheet US2:14HUG820A



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLRelay amp range 25-100A, 110 120/220 240VAC 60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

Figure similar

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]	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		
• 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 60 Hz rated value	110 240 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
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	
degree of protection NEMA rating	12
degree of protection NEMA rating design of the housing	12 Extra-wide
design of the housing	Extra-wide
design of the housing design of the housing	Extra-wide
design of the housing design of the housing Mounting/wiring	Extra-wide Dust tight and drip proof for indoors
design of the housing design of the housing Mounting/wiring mounting position	Extra-wide Dust tight and drip proof for indoors Vertical
design of the housing design of the housing Mounting/wiring mounting position fastening method	Extra-wide Dust tight and drip proof for indoors Vertical Surface mounting and installation
design of the housing design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Extra-wide Dust tight and drip proof for indoors Vertical Surface mounting and installation Box lug
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design of the housing 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 at AWG cables single or multi-stranded	Extra-wide Dust tight and drip proof for indoors Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x(14 - 2/0 AWG)
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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 at 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 trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 480 V • at 600 V certificate of suitability screw-type terminals Screw-type terminals **C 10 lbf-in 2 x (20 - 14 AWG) **C CU **DOM: 1 0 kA 1 0 kA NEMA ICS 2; UL 508; CSA 22.2, No.14	maximum permissible	
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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
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 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,...)

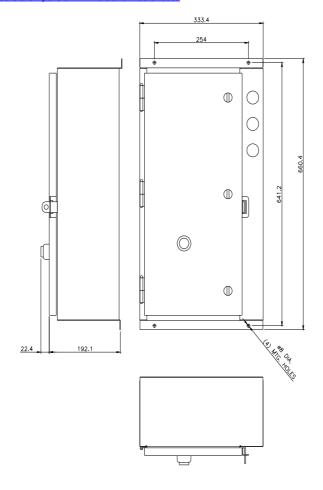
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14HUG820A

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

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG820A

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG820A&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG820A/certificate





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