SIEMENS

Data sheet

US2:14HUG820F



Non-reversing motor starter, Size 3, Three phase full voltage, Solidstate overload relay, OLRelay amp range 25-100A, 110V 50HZ / 120V 60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

Figure similar

General technical data		
Weight [lb]	48 lb	
Height x Width x Depth [in]	26 × 13 × 8 in	
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	
Ambient temperature [°F] during operation	-4 +104 °F	
Ambient temperature during storage	-30 +65 °C	
Ambient temperature during operation	-20 +40 °C	
Country of origin	USA	
Horsepower ratings		
Yielded mechanical performance [hp] for three-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 r	ated value
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50 hp

• at 575/600 V rated value	50 np
Contactor	
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	90 A
Mechanical service life (switching cycles) of the main contacts typical	500000
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 DC rated value	0 0 V
• at AC at 60 Hz rated value	120 120 V
• at AC at 50 Hz rated value	110 110 V
Holding power at AC minimum	14 W
Apparent pick-up power of magnet coil at AC	310 V·A
Apparent holding power of magnet coil at AC	26 V·A
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 %
Switch-on delay time	26 41 ms
Off-delay time	14 19 ms
Overload relay	
Product function	
 Overload protection 	Yes
Phase failure detection	Yes
Phase unbalance	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 pick-up value current of the current- dependent overload release25 10Trip time at phase-loss maximum3 s	
Trip time at phase-loss maximum 3 s	0 A
Relative repeat accuracy 1 %	
Product feature Protective coating on printed-circuit Yes board	
Number of NC contacts of auxiliary contacts of 1 overload relay 1	
Number of NO contacts of auxiliary contacts of 1 overload relay 1	
Operating 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 5A@60 according to UL	0VAC (B600), 1A@250VDC (R300)
Insulation voltage	
• 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 of the enclosure NEMA	Гуре 12
Design of the housing Dust tig	ht and drip proof for indoors
Mounting/wiring	
Mounting position Vertical	
(mounting type) Surface	mounting and installation
Type of electrical connection for supply voltage line- side Box lug	
Tightening torque [lbf·in] for supply 120 1	20 lbf·in
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	2/0 AWG)
Temperature of the conductor for supply maximum 75 °C permissible 75 °C	
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Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CType of electrical connection for load-side outgoing feederBox lug	U 20 lbf·in
Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feeder120 1	
Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feeder120 1Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single1x(14 -	20 lbf·in
Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feeder120 1Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded1x(14 -Temperature of the conductor for load-side outgoing75 °C	20 lbf·in 2/0 AWG)

Tightening torque [lbf·in] at magnet coil	5 12 lbf in
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi- stranded	2 x (16 - 12 AWG)
Temperature of the conductor at magnet coil maximum permissible	75 °C
Material of the conductor at magnet coil	CU
Type of electrical connection for auxiliary contacts	screw-type terminals
Tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf in
Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded	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
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 at AWG conductors 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

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

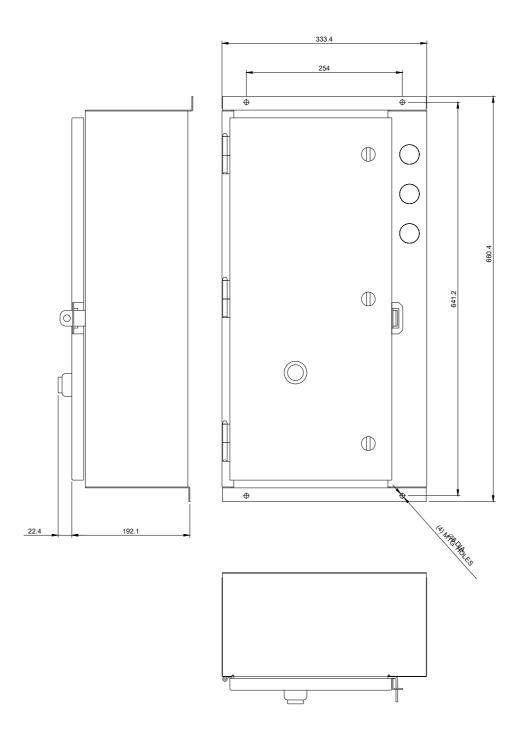
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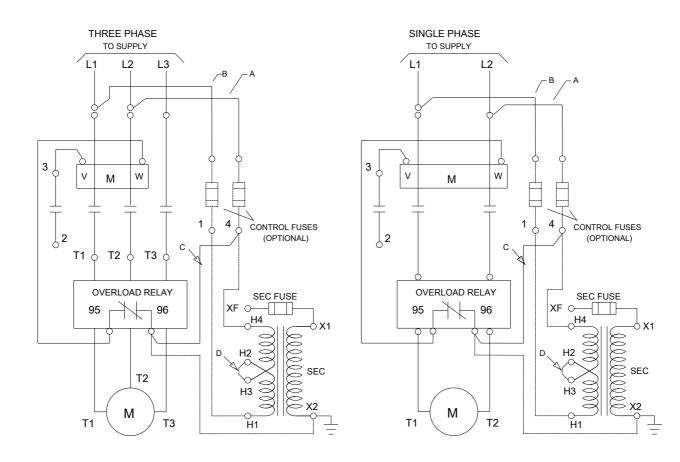
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG820F

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG820F&lang=en

Certificates/approvals

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last modified:

06/03/2019