SIEMENS

Data sheet US2:14IUH82BF



Non-reversing motor starter Size 3 1/2 Three phase full voltage Solid-state overload relay OLRelay amp range 50-200A 110VAC 50HZ / 120VAC 60HZ coil Combination type Indoor general purpose use

Figure similar

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]	32 lb
Height x Width x Depth [in]	20 × 12 × 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	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	
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	
at AC at 50 Hz rated value	110 V
at AC at 60 Hz rated value	120 V
holding power at AC minimum	14 W

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operational current of auxiliary contacts of overload relay	number of NC contacts of auxiliary contacts of overload relay	1
■ at AC at 600 V ■ at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) ● with single-phase operation at AC rated value ● with multi-phase operation at AC rated value ● with multi-phase operation at AC rated value	number of NO contacts of auxiliary contacts of overload relay	1
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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 Box lug		
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type of electrical connection for load-side outgoing feeder Box lug		
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	tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	load-side outgoing feeder single or multi-stranded	
temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C		75 °C
material of the conductor for load-side outgoing feeder AL or CU	material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil screw-type terminals	type of electrical connection of magnet coil	screw-type terminals
tightening torque [lbf-in] at magnet coil 5 12 lbf-in		
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded		
temperature of the conductor at magnet coil maximum permissible 75 °C		75 °C
material of the conductor at magnet coil CU	material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts screw-type terminals	type of electrical connection for auxiliary contacts	screw-type terminals
tightening torque [lbf-in] at contactor for auxiliary contacts 10 15 lbf-in	tightening torque [lbf-in] at contactor for auxiliary contacts	10 15 lbf-in
	type of connectable conductor cross-sections at contactor at AWG cables 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 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,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14IUH82BF

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

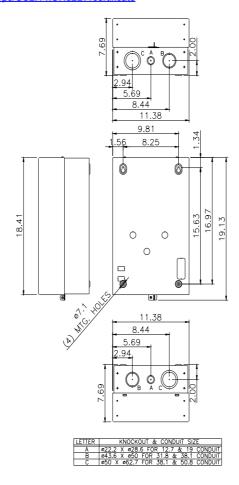
https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH82BF

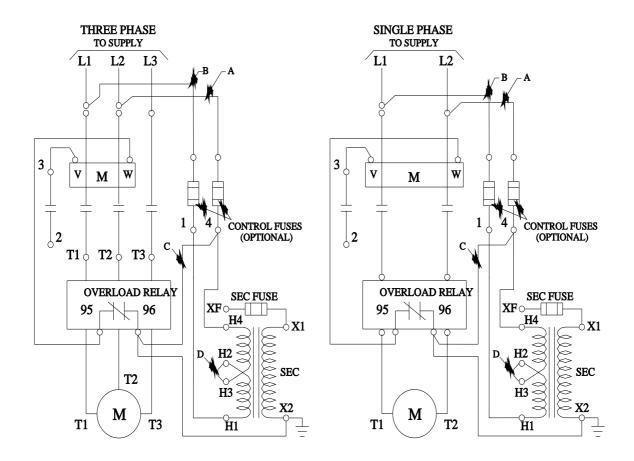
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14IUH82BF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH82BF/certificate





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