SIEMENS

Data sheet

US2:14IUH32FA



Non-reversing motor starter, Size 3 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 50-200A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

design of the product Full-voltage non-reversing motor starter special product feature ESP200 overload relay; Half-size starter; Dual voltage or General technical data	oil	
special product feature ESP200 overload relay; Half-size starter; Dual voltage constraints General technical data 41 lb weight [lb] 41 lb Height x Width x Depth [in] 24 × 24 × 7 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	oil	
weight [lb]41 lbHeight x Width x Depth [in]24 × 24 × 7 intouch protection against electrical shock(NA for enclosed products)installation altitude [ft] at height above sea level maximum6560 ftambient temperature [°F]-22 +149 °F		
Height x Width x Depth [in] 24 × 24 × 7 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		
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installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [°F] -22 +149 °F		
ambient temperature [°F] • during storage -22 +149 °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 600 V maximum		
operational current at AC at 600 V rated value 115 A		
mechanical service life (switching cycles) of the main 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 10A@600VAC (A600), 5A@600VDC (P600) to UL		
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
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	Vee
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	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)	
 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	4X, fiber glass
design of the housing	Dust-tight, watertight & corrosion resistant
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
tightening torque [lbf·in] for supply	120 120 lbf in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x(14 - 2/0 AWG)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Box lug
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	1x(14 - 2/0 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
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	2 x (16 - 12 AWG)
temperature of the conductor at magnet coil maximum	75 °C

permissible		
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 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	
breaking capacity maximum short-circuit current (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) <u>https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14IUH32FA</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH32FA</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)		
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14IUH32FA⟨=en Certificates/approvals		

https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH32FA/certificate

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