# **SIEMENS**

## Data sheet

## US2:14FUF32XC



Non-reversing motor starter Size 2 Three phase full voltage Solidstate overload relay OLRelay amp range 13-52a Non-combination type Encl NEMA type 4X 316 S-steel Water/dust tight non-corrosive Standard width enclosure

Figure similar

General technical data	
Weight [lb]	14 lb
Height x Width x Depth [in]	16 × 8 × 6 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	10 hp
• at 220/230 V rated value	15 hp
• at 460/480 V rated value	25 hp

• at 575/600 V	rated value
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25 hp

• at 575/600 V rated value	25 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	45 A
Mechanical service life (switching cycles) of the main contacts typical	1000000
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
<ul> <li>at AC at 60 Hz rated value</li> </ul>	220 480 V
• at AC at 50 Hz rated value	0 0 V
Holding power at AC minimum	8.6 W
Apparent pick-up power of magnet coil at AC	218 V·A
Apparent holding power of magnet coil at AC	25 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	19 29 ms
Off-delay time	10 24 ms
Overload relay	
Product function	
<ul> <li>Overload protection</li> </ul>	Yes
Phase failure detection	Yes
Phase unbalance	Yes
<ul> <li>Ground fault detection</li> </ul>	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 release       13 52 A         Trip time at phase-loss maximum       3 s         Relative repeat accuracy       1 %         Product feature Protective coating on printed-circuit board       1 %         Number of NC contacts of auxiliary contacts of overload relay       1         Operating current of auxiliary contacts of overload relay       1         Operating current of auxiliary contacts of overload relay       5 A         • 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) according to UL         Insulation voltage       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       900 V         Enclosure       Design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Vertical       Mounting type)         Surface mounting and installation       Type of electrical connection for supply voltage line- side at AWG conductor ros-sections at line- side at AWG conductor ros-sections at line- side at AWG conductor for supply maximum permissible       75 °C         Tightening torque [lbfin] for lo		
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         Operating current of auxiliary contacts of overload relay       5 A         • at AC at 600 V       5 A         • at AC at 600 V       5 A         • at AC at 250 V       1 A         Contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         Insulation voltage       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         Degree of protection NEMA rating of the enclosure       Dust-tight, watertight & corrosion resistant         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side at AWG conductor for supply maximum permissible       1x(14 - 2 AWG)         Material of the conductor for supply maximum permissible       75 °C         Tightening torque [Ibf in] for load-side outgoing feeder       50 kug         Tightening torque [Ibf in] for load-side outgoing feeder       50 kug         Tightening tor		13 52 A
Product feature Protective coating on printed-circuit board       Yes         Number of NC contacts of auxiliary contacts of overload relay       1         Number of NC contacts of auxiliary contacts of overload relay       1         Operating current of auxiliary contacts of overload relay       1         • 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       600 V         • with multi-phase operation at AC rated value       600 V         Degree of protection NEMA rating of the enclosure       00 V         Design of the housing       Dust-tight, watertight & corrosion resistant         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side       Box lug         side at AWG conductor cross-sections at line- side at AWG conductor for supply maximum permissible       1x(14 - 2 AWG)         Material of the conductor for load-side outgoing feeder       Box lug         Tightening torque [lbf in] for load-side outgoing feeder       5 45 lbf in         Tightening torque [lbf in] for load-side outgoing feeder       45 45 lbf in         Tightening torque [lbf in] for load-side outgoing feeder	Trip time at phase-loss maximum	3 s
board       Invmber of NC contacts of auxiliary contacts of overload relay       1         Number of NO contacts of auxiliary contacts of overload relay       1         Operating current of auxiliary contacts of overload relay       1         • 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       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       900 V         Enclosure       Degree of protection NEMA rating of the enclosure       Dust-tight, watertight & corrosion resistant         Mounting wiring       Must Y (Jame 2)       Surface mounting and installation         Mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       1x(14 - 2 AWG)         side at AWG conductor for supply maximum permissible       75 °C         Material of the conductor for supply maximum permissible       75 °C         Material of the conductor for supply maximum permissible       75 °C         Material of the conductor for supply       AL or CU         Type of electrical connection for	Relative repeat accuracy	1 %
overload relay       1         Number of NO contacts of auxiliary contacts of overload relay       1         Operating current of auxiliary contacts of overload relay       5 A         • 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       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         Degree of protection NEMA rating of the enclosure       NEMA 4X 316 stainless steel enclosure         Design of the housing       Dust-tight, watertight & corrosion resistant         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       50 klg         Tightening torque [lbf-in] for supply       45 45 lbf-in         Type of electrical connector for supply maximum permissible       75 °C         Material of the conductor for supply maximum permissible       75 °C         Tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         Tightening torque [lbf-in] for load-side outgoing feeder       5 45 lbf-in         Tightening torque [lbf-in] for l	<b>-</b> .	Yes
overload relay       Operating current of auxiliary contacts of overload relay         • at AC at 600 V       5 Å         • at DC at 250 V       1 Å         Contact rating of auxiliary contacts of overload relay according to UL       5 Å@600VAC (B600), 1A@250VDC (R300)         Insulation voltage       600 V         • 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         Degree of protection NEMA rating of the enclosure       Dust-tight, watertight & corrosion resistant         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side at AWG conductor single or multi-stranded       Box lug         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       Fox Lug         Tightening torque [lbf-in] for load-side outgoing feeder       Fox Lug         Tightening torque [lbf-in] for load-side outgoing feeder       Fox Lug         Tightening torque [lbf-in] for load-side outgoing feeder	-	1
relay <ul> <li>at AC at 600 V</li> <li>at DC at 250 V</li> <li>1 A</li> </ul> Contact rating of auxiliary contacts of overload relay according to UL <ul> <li>SA@600VAC (B600), 1A@250VDC (R300)</li> <li>according to UL</li> </ul> Insulation voltage <ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>Wouting-phase operation at AC rated value</li> </ul> <ul> <li>With multi-phase operation at AC rated value</li> <li>We with multi-phase operation at AC rated value</li> </ul> Degree of protection NEMA rating of the enclosure         NEMA 4X 316 stainless steel enclosure           Design of the housing         Dust-tight, watertight & corrosion resistant           Mounting position         Vertical               (mounting type) <li>Surface mounting and installation</li> <li>Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded</li> <ul> <li>Temperature of the conductor for supply maximum permissible<td>-</td><td>1</td></li></ul>	-	1
<ul> <li>at DC at 250 V</li> <li>at DC at 250 V</li> <li>Contact rating of auxiliary contacts of overload relay according to UL</li> <li>Insulation voltage         <ul> <li>with single-phase operation at AC rated value</li> <li>600 V</li> <li>with multi-phase operation at AC rated value</li> <li>600 V</li> </ul> </li> <li>Begree of protection NEMA rating of the enclosure</li> <li>Degree of protection NEMA rating of the enclosure</li> <li>Degree of protection NEMA rating of the enclosure</li> <li>Dust-tight, watertight &amp; corrosion resistant</li> <li>Mounting position</li> <li>Vertical</li> <li>(mounting type)</li> <li>Surface mounting and installation</li> <li>Type of electrical connection for supply voltage line-side at AWG conductor cross-sections at line-side at AWG conductor for supply maximum permissible</li> <li>Material of the conductor for supply maximum permissible</li> <li>Material of the conductor for supply</li> <li>AL or CU</li> <li>Type of electrical connection for load-side outgoing feeder</li> <li>Tightening torque [lbf-in] for load-side outgoing feeder</li> <li>Type of connectable conductor cross-sections a</li></ul>		
Contact rating of auxiliary contacts of overload relay according to UL.       5A@600VAC (B600), 1A@250VDC (R300)         Insulation voltage       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         Degree of protection NEMA rating of the enclosure       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Dust-tight, watertight & corrosion resistant         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       45 45 lbf in         Type of connectable 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       45 45 lbf in         Type of connectable conductor for supply       AL or CU         Type of connectable conductor cross-sections at       Tightening torque [lbf in] for load-side outgoing feeder         Tightening torque [lbf in] for load-side outgoing feeder       45 45 lbf in         Type of connectable conductor cross-sectio	• at AC at 600 V	5 A
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• with single-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 VEnclosureDegree of protection NEMA rating of the enclosureNEMA 4X 316 stainless steel enclosureDesign of the housingDust-tight, watertight & corrosion resistantMounting/wiringMounting positionVertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideBox lugTightening torque [lbf-in] for supply45 45 lbf-inType of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded1x(14 - 2 AWG)Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CUType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-inType of connectable conductor ross-sections atIncType of connectable conductor for supplyAL or CUType of electrical connection for load-side outgoing feeder5 45 lbf-inTightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-inType of connectable conductor cross-sections at1x(14 - 2 AWG)		5A@600VAC (B600), 1A@250VDC (R300)
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Enclosure       NEMA 4X 316 stainless steel enclosure         Design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Mounting position         Mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side       Box lug         Tightening torque [lbf-in] for supply       45 45 lbf-in         Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded       1x(14 - 2 AWG)         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       Tightening torque [lbf-in] for load-side outgoing feeder         Type of connectable 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       Tightening torque [lbf-in] for load-side outgoing feeder         Type of connectable conductor cross-sections at 1x(14 - 2 AWG)       1x(14 - 2 AWG)	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
Degree of protection NEMA rating of the enclosureNEMA 4X 316 stainless steel enclosureDesign of the housingDust-tight, watertight & corrosion resistantMounting/wiringMounting positionVerticalMounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideBox lugTightening torque [lbf·in] for supply45 45 lbf·inType of connectable conductor cross-sections at line- side1x(14 - 2 AWG)Material of the conductor for supplyAL or CUType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feederFor NLType of connectable conductor cross-sections at1x(14 - 2 AWG)	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Degree of protection NEMA rating of the enclosureNEMA 4X 316 stainless steel enclosureDesign of the housingDust-tight, watertight & corrosion resistantMounting/wiringMounting positionVerticalMounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideBox lugTightening torque [lbf·in] for supply45 45 lbf·inType of connectable conductor cross-sections at line- side1x(14 - 2 AWG)Material of the conductor for supplyAL or CUType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feederFor NLType of connectable conductor cross-sections at1x(14 - 2 AWG)	Enclosure	
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Mounting positionVertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideBox lugTightening torque [lbf-in] for supply45 45 lbf-inType of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded1x(14 - 2 AWG)Temperature of the conductor for supply maximum permissible75 °CMaterial of the conductor for supplyAL or CUType of electrical connection for load-side outgoing feederBox lugTightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-inType of connectable conductor cross-sections at1x(14 - 2 AWG)	Mounting/wiring	
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Type of electrical connection for load-side outgoing feederBox lugTightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·inType of connectable conductor cross-sections at1x(14 - 2 AWG)	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line-	45 45 lbf·in
feeder     45 45 lbf in       Tightening torque [lbf in] for load-side outgoing feeder     45 45 lbf in       Type of connectable conductor cross-sections at     1x(14 - 2 AWG)	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum	45 45 lbf·in 1x(14 - 2 AWG)
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	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors 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	45 45 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU
AWG conductors for load-side outgoing feeder single or multi-stranded	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors 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 Tightening torque [lbf·in] for load-side outgoing	45 45 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU Box lug
Temperature of the conductor for load-side outgoing75 °Cfeeder maximum permissible	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors 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 Tightening torque [lbf·in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single	45 45 lbf in 1x(14 - 2 AWG) 75 °C AL or CU Box lug 45 45 lbf in
Material of the conductor for load-side outgoing AL or CU feeder	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors 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 Tightening torque [lbf·in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded Temperature of the conductor for load-side outgoing	45 45 lbf in 1x(14 - 2 AWG) 75 °C AL or CU Box lug 45 45 lbf in 1x(14 - 2 AWG)
Type of electrical connection of magnet coil screw-type terminals	side Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors 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 Tightening torque [lbf·in] for load-side outgoing feeder Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded Temperature of the conductor for load-side outgoing feeder maximum permissible Material of the conductor for load-side outgoing	45 45 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x(14 - 2 AWG) 75 °C

Tightening torque [lbf·in] at magnet coil	5 12 lbf <sup>.</sup> in
Type of connectable conductor cross-sections of	2 x (16 - 12 AWG)
magnet coil at AWG conductors single or multi-	
stranded	
Temperature of the conductor at magnet coil	75 °C
maximum 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	10 15 lbf·in
contacts	
Type of connectable conductor cross-sections at	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)
contactor at AWG conductors for auxiliary contacts	
single or multi-stranded	
Temperature of the conductor at contactor for	75 °C
auxiliary contacts maximum permissible	
Material of the conductor at contactor for auxiliary	CU
Type of electrical connection at overload relay for	screw-type terminals
auxiliary contacts	7 10 lbf-in
Tightening torque [lbf·in] at overload relay for auxiliary contacts	
Type of connectable conductor cross-sections at	2 x (20 - 14 AWG)
overload relay at AWG conductors for auxiliary	
contacts single or multi-stranded	
Temperature of the conductor at overload relay for	75 °C
auxiliary contacts maximum permissible	
Material of the conductor at overload relay for	CU
auxiliary contacts	
Short-circuit current rating	
Design of the fuse link for short-circuit protection of	10kA@600V (Class H or K); 100kA@600V (Class R or J)
the main circuit required	
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
- al 000 v	

#### Further information

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

### Industry Mall (Online ordering system)

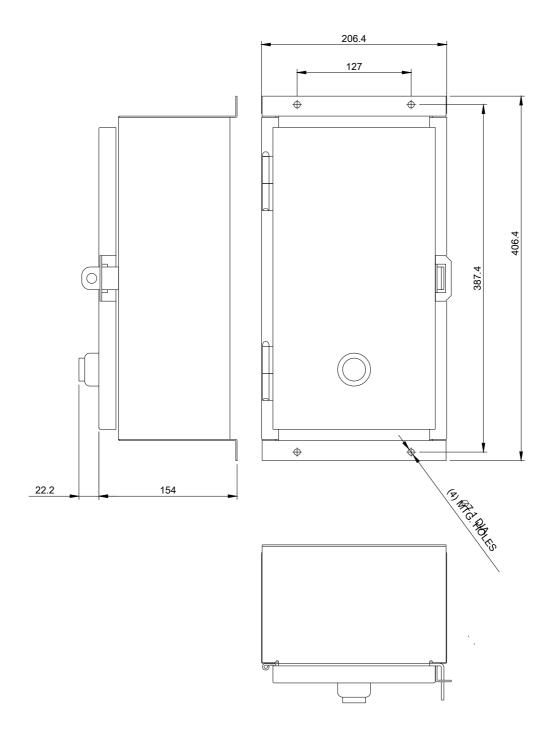
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14FUF32XC

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#### Certificates/approvals

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