SIEMENS

Data sheet

US2:14FUF32AL



Non-reversing motor starter Size 2 Three phase full voltage Solid-state overload relay OLRelay amp range 13-52a 240VAC 50HZ / 277VAC 60HZ coil Combination type No enclosure

Fi	gu	re	si	mi	lar
	-				

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	5 lb
Height x Width x Depth [in]	8.13 × 5.75 × 4 in
touch protection against electrical shock	Not finger-safe
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	Mexico
Horsepower ratings	_
yielded mechanical performance [hp] for 3-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	25 hp
Contactor	
size of contactor	NEMA controller size 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	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	

		04014		
Indeg power at AC multinum 8.6 W apparent holding power of magnet coil at AC 25 VA operant holding power of magnet coil at AC 25 VA opparent holding power of magnet coil at AC 25 VA opparent holding power of magnet coil at AC 25 VA opparent holding power of magnet coil related to the power of the current of power of magnet coil related to the power of the power of the conductor for the coil coil of owerload relay to the coil	at AC at 50 Hz rated value	240 V		
apparent pick-up power of magnet coil at AC 218 VA operating range factor coil at AC 25 VA operating range factor coil at AC 25 VA operating range factor coil at AC 25 VA operating range factor coil at AC 26 VA operating range factor coil at AC 26 VA operating range factor coil at AC 26 VA OV-fold ratio 19 24 ms OVerfold ratio Yes operating range factor coil at AC Yes opproved fault detection Yes relative reparting range fault detection Yes number of				
appenent hotding power of magnet coil at AC 25 VA operating angle coil 0.85 1.1 of magnet coil 0.85 1.1 promoted drop out voltage of magnet coil related to the input voltage. 0.95 OH-delay time 1 28 ms OVerfoad relay 0 24 ms Overload protection Yes • overload protection Yes • ground fault detection Yes • ground fault detection Yes • ground fault detection Yes • external reset Manual, automatic and remote Tipping time alphae-loss maximum 3 s reset function Yes • oxternal reset No reset function Manual, automatic and remote tipping time alphae-loss maximum 3 s relative repeat accuracy 1352 A product faiture protective coaling on printed-circuit bord Yes • at Oc at 20 V 1A contract rating of auxiliary contacts of overload relay 5A • at C at 20 V 1A contact rating of auxiliary contacts of overload relay 5A				
operating range factor control supply voltage rated value of magnet coll 0.851.1 percential (rop-out voltage of magnet coll related to the input voltage. 50 % ON-delay sime 1929 ms OC-f-delay sime 1024 ms Overload rolay 78 product function Yes • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset No Manual, subornatic and remote CLASS 5/10/20 (factory set) / 30 adjustable current response value current of the current dependent overload release 3 s Tripping line at phase-toase 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 eat AC at 600 V 1A contact rating of auxiliary contacts of overload relay 5 A eat AC at 600 V 1A eat AC at 600 V 1A contact rating of auxiliary contacts of overload relay according to U.L				
of magnet coli 50 % precental drop-out voltage of magnet coli related to the input voltage. 50 % ON-oblegity time 19 29 ms OPE-colary torus 70 magnet coli Overload relay 70 magnet coli product function Yes • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset No Free function Manual, automatic and remote Trip class CLASS 5 / 10 / 20 (factory set) / 30 digitable current response value current of the current dependent overload relay 13 52 A relative repeat accuracy 1% product facture protective coating on printed-circuit board 1 relay accuracy 1% product facture protective coating on printed-circuit board 1 relay at DC at 280 V 1 contact rating of auxiliary contacts of overload relay 5 A ext DC at 280 V 5 A contact rating of auxiliary contacts of overload relay 5 A etal DC at 280 V 5 A contact rating of auxiliary contacts of overload relay				
input voltage 929 ms OFF-delay time 1024 ms Overload rolsy product function • overload protection Yes • passe failure detection Yes • asymmetry detection Yes • attent inction No reset function Manual. automatic and remote tip deas CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current distribution dependent overload release 3 s Pripping line at phase-loss maximum 3 s product feature protective coating on printed-circuit board 1 operational current of auxiliary contacts of overload 1 operational current of auxiliary contacts of overload relay 5 A • at Oc at 280 V 5 A • at Oc at 280 V 5 A • subto at 280 V 1 A insulation vot	of magnet coil			
OFF-deby time 10 24 ms Overload rolay Product function • overload protection Yes • pinase failure detection Yes • asymmetry detection Yes • external reset No • external reset No 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 13 52 A dependent overload release 13 52 A relative repeat accuracy 1 % product feature protective costing on printed-circuit board 1 relative repeat accuracy 1 % product feature protective costing on orinted-circuit board 1 operational current of auxiliary contacts of overload relay 1 • at DC at 500 V 1A • at DC at 500 V 5A • at DC at 250 V 1A • at DC at 250 V 5A@600VAC (B600), 1A@250VDC (R300) ectoring of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) etal Cat 800 V 1A • at DC at 250 V		50 %		
Overload relay product function Yes • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground faul detection Yes • external reset No Manual, automatic and remote Yes • itest function Yes Yes Yes • external reset No Manual, automatic and remote Yes trip dass CILASS 57.10 / 20 (factory set) / 30 13 52.A dipstable current response value current of the current- 13 52.A 14 52.A ripping time at phase-loss maximum 3 s 1 relative repeat accuracy 1 % Yes product feature protective coating on printed-circuit board 1 1 relative repeat accuracy 1 A 5 A 4 4 C at 600 V 5 A • at C at 250 V 1 A 5 A@@B00VAC (B600), 1.A@250VDC (R300) according to U 5 A@@B00VAC (B600), 1.A@250VDC (R300) insultation voltage (U) • with single-phase operation at AC rated value 5 A 5 A 5 A@@B00VAC (B600), 1.A@250VDC (R300) according to U<	ON-delay time	19 29 ms		
product function Yes • overlaad protection Yes • phase failure detection Yes • asymmetry detection Yes • errord fault detection Yes • esternal reset No • external reset No reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overfoad release 13 52 A relative repeat-loss maximum 3 s relative repeat-loss maximum 3 s relative repeat-loss of auxiliary contacts of overload 1 relay 1 ontert ating of auxiliary contacts of overload 1 relay 5 A • at DC at 250 V 1 A ontert ating rependent of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A orbitary and generation at AC rated value 300 V • with multi-phase operation at AC rated value 300 V enclosure Surface mounting and installation type of electrical connection for supply voltage line-side 5 C degree of protection NEMA rating Open device (no enclosure) degree of protection NEMA rating Surface mounting and installation type of e	OFF-delay time	10 24 ms		
verified protection ves v	Overload relay			
Phase failure detection Yes your of fault detection Yes fault of fault detection your	product function			
esymmetry detection yes eground fault detection Yes est function Yes external reset No reset function Yes external reset No reset function CLASS 57 10 / 20 (factory set) / 30 adjustable current regionse value current of the current- degreden deveload release trip class trip plag time at phase-loss maximum relative repeat accuracy router facture protective coating on printed-circuit board Yes relative repeat accuracy router for the current of the current- relative repeat accuracy router for the protective coating on printed-circuit board Yes rundber of NC contacts of auxiliary contacts of overload relay eat AC at 600 V set AC at 250 V to A according to UL insulation voltage (U) e with multi-phase operation at AC rated value degree of protection NEMA rating Open device (no enclosure) with single-phase operation at AC rated value do0 V sourdae mounting position type of electrical connection for supply voltage line-side tal (14 - 2 AWG) AL or CU type of electrical connection for supply maximum pre of the conductor for supply maximum pre of the conductor for supply maximum pre of the conductor for supply AL or CU Vertical fastoning method type of electrical connection for load-side outgoing feeder AL or CU Vertical fastoning method full-14-2 AWG) ads AL or CU Vertical fastoning method type of electrical connection for load-side outgoing feeder radivide of the conductor for load-side outgoing feeder radivid the conductor for load-side outgoing fee	 overload protection 	Yes		
• lest function Yes • lest function No reset function Manual, automatic and remote filp class CLASS 5/10/20 (factory set)/30 adjustable current response value current of the current- dependent overload release 1352 A tripping time a phase-loss maximum 3 s relative repeat accuracy 1% product fauture protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 relative repeat accuracy 1% operational current of auxiliary contacts of overload relay 1 • at DC at 250 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A score of protection NEMA rating Open device (no enclosure) with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure Dentorecutable conductor ros supply notage line-side tightening torque [16] in for supply Vertical fastening method Surface mounting an installation type of effection for supply notige line-side Box lug tightening torque [16] in for supply maximum 75 °C prestable onductor for supply maximum<	 phase failure detection 	Yes		
	 asymmetry detection 	Yes		
• external reset No reset function Manual, automatic and remote tip class CLASS 57 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overtoad release 13 52 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1% product feature protective coating on printed-circuit board relay 1% number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay ecording for auxiliary contacts of overload relay according to UL 5 A outset of protection NEMA rating 600 V outset of protection NEMA rating 600 V ow with multi-phase operation at AC rated value 600 V degree of protection NEMA rating Open device (no enclosure) design of the housing NA Mountingwiring NA Mountingwiring Yes 'C material of the conductor for supply valtage line-side at AWG cables single or multi-straned For 'C material of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 45 45 lbr/in <t< td=""><td> ground fault detection </td><td>Yes</td></t<>	 ground fault detection 	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 1352 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board relay 1 % number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay eaccording to U. 5 A insultation voltage (U) 5 A eat DC at 250 V 1 A contact refing of auxiliary contacts of overload relay eaccording to U. 5 A insultation voltage (U) 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure Open device (no enclosure) degree of protection NEMA rating Open device (no enclosure) Mounting position Surface mounting and installation Type of electrical connection for supply voltage line-side Box lug tightening torque [Ib/in] for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75	test function	Yes		
trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent vorthoad release 13 52 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 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay according to UL 5 A out at CG at 250 V 5 A contact rating of auxiliary contacts of overload relay according to UL 5 A insulation voltage (UI) 600 V with single-phase operation at AC rated value 600 V oo V 30 V Enclosure 600 V degree of protection NEMA rating Open device (no enclosure) Mounting/wiring NA Mounting/wiring Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side at AWC cables single or multi-stranded 1x(14 - 2 AWG) tat AWC cables single or multis-stranded	external reset	No		
adjustable current response value current of the current- dependent overload release 13 52 A 11 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board 1 % relay 1 % number of NC contacts of auxiliary contacts of overload 1 relay 1 operational current of auxiliary contacts of overload 1 relay 1 A octact rating of auxiliary contacts of overload relay 5 A according to UL 5 A insulation voltage (Ui) 600 V • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 500 V Enclosure 600 V Mounting/wiring NA Mounting/wiring Vertical mounting position Vertical type of electrical connectable conductor cross-sections at line-side 45 45 lbr/in type of electrical connectable conductor cross-sections at line-side 45 45 lbr/in type of electrical connectorin for supply maximum 75 °C material of the conductor for load-side outgoing feeder 76 °C type	reset function	Manual, automatic and remote		
dependent overload release as 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 1 relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A ot at CC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (U) 600 V with highe-phase operation at AC rated value 600 V egree of protection NEMA rating Open device (no enclosure) degree of protection NEMA rating Open device (no enclosure) degree of protection NEMA rating Vertical mounting position Vertical fastening method Surface mounting and installation Type of electrical connection for supply voltage line-side tx(14 - 2 AWG) tightening torque [tbf-in] for supply AL or CU type of electrical connection for supply maximum permissible 75 °C material of the conductor for load-side outgo	trip class	CLASS 5 / 10 / 20 (factory set) / 30		
Instruction 1 % Product feature pretective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 relay 1 operational current of auxiliary contacts of overload relay 1 eat DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A insulation voltage (UI) 600 V with single-phase operation at AC rated value 600 V et closure 600 V degree of protection NEMA rating Open device (no enclosure) design of the housing NA Mounting/wring NA Mounting writing Surface mounting and installation type of connectable conductor corss-sections at line-side Box lug at AWG cables single or multi-stranded Ts °C material of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 45 45 lbf in type of connectable conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder<		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 operational current of auxiliary contacts of overload relay 1 • at AC at 800 V 5 A • at DC at 250 V 1 A contact raing of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) 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 Open device (no enclosure) design of the housing NA Mounting/wring Na mounting position Vertical tippe of connectable conductor for supply voltage line-side Box lug tiphtening method Surface mounting and installation type of electrical connection for supply voltage line-side 1x(14 - 2 AWG) at AWG cables single or multi-stranded Ts 'C temperature of the conductor for supply maximum 75 'C material of the conductor foras-sections at AWG 1x(14 - 2 AWG) cables for load-side outgoing feeder 75 'C tightening torque [bir] fo	tripping time at phase-loss maximum	3 s		
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 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5 A insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating Open device (no enclosure) design of the housing NA Mounting/wring NA Mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded 75 °C metrial 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 maximum permissible 1x(14 - 2 AWG) tightening torque [Ibf-In] for load-side outgoing feeder 45 45 Ibf in type of electrical connection for load-side outgoing feeder 1x(14 - 2 AWG) tightening torque [Ibf-In] for load-side o	relative repeat accuracy	1 %		
relay 1 number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 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) 600 V • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure 600 V degree of protection NEMA rating Open device (no enclosure) design of the housing NA Mounting/wiring Na mounting position Vertical fastening method Surface mounting and installation tightening torque [lif-in] for supply 45 45 lbf in type of electrical connection for supply woltage line-side at AWG cables single or multi-stranded 1x(14 - 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 45 45 lbf in type of electrical connection for load-side outgoing feeder 15 45 lbf in tightening torque [lif-in] for load-side outgoing feeder 15 45 lbf in <td>product feature protective coating on printed-circuit board</td> <td>Yes</td>	product feature protective coating on printed-circuit board	Yes		
relay operational current of auxiliary contacts of overload relay • 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 600 V • with multi-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 ewide of protection NEMA rating Open device (no enclosure) design of the housing NA Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of clorical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 45 45 lbf in type of clorical connection for supply maximum 75 °C permissible material of the conductor for supply material of the conductor for load-side outgoing feeder 45 45 lbf in type of electrical connection for load-side outgoing feeder 45 45 lbf in		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 (Ui) • 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 • • with multi-phase operation at AC rated value 800 V • Enclosure 600 V • • degree of protection NEMA rating Open device (no enclosure) • design of the housing NA • • Mounting/wiring • • • • mounting position Vertical • • • fastening method Surface mounting and installation • • • type of connectable conductor cross-sections at line-side at AVG cables single or multi-stranded 1x(14 - 2 AWG) • • temperature of the conductor for supply maximum permissible 75 °C • • • • • • • • • • • <td< td=""><td></td><td>1</td></td<>		1		
• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)insulation voltage (Ui)• with single-phase operation at AC rated value600 V• with single-phase operation at AC rated value300 VEnclosuredegree of protection NEMA rating design of the housingMounting/wiringOpen device (no enclosure)mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lugtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor rose-sections at AWG cables for load-side outgoing feederAL or CUtype of connectable conductor rose-sections at AWG cables for load-side outgoing feeder1x (14 - 2 AWG)tightening torque [lbFin] for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbFin] for load-side outgoing feederTx (14 - 2 AWG)transitionTx (14 - 2 AWG)acting torque [lbFin] for load-side outgoing feederTx (14 - 2 AWG)tightening torque [lbFin] for load-side outgoing feederTx (14 - 2 AWG)tightening torque [lbFin] for load-side outgoing feederTx (14 - 2 AWG)	operational current of auxiliary contacts of overload relay			
contact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)insulation voltage (Ui) • with single-phase operation at AC rated value600 V 300 V• with multi-phase operation at AC rated value300 VEnclosure degree of protection NEMA rating design of the housingOpen device (no enclosure) NAMounting/wiringNAmounting position fastening methodVertical Surface mounting and installationtightening torque [lbf-in] for supply voltage line-side at AVG cables single or multi-strandedBox lugtightening torque [lbf-in] for supply maximum permissible75 °Cmaterial of the conductor for supply multi- tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder tarded1x(14 - 2 AWG)tarded temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °C	• at AC at 600 V	5 A		
according to UL 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 Open device (no enclosure) design of the housing NA Mounting/wiring NA mounting position Vertical fastening method Surface mounting and installation tightening torque [Ibf-in] for supply 45 45 lbf-in type of connectable conductor cross-sections at line-side 1x(14 - 2 AWG) at AVVG cables single or multi-stranded 75 °C material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder 45 45 lbf-in type of connectable conductor for supply AL or CU type of electrical connection for load-side outgoing feeder 45 45 lbf-in type of connectable conductor for load-side outgoing feeder 45 45 lbf-in type of connectable conductor for supply AL or CU type of connectable conductor for load-side outgoing feeder 45 45 lbf-in type of connectable conductor for load-side outgoing feeder 45 45 lbf-in type of electrical connec	• at DC at 250 V	1 A		
• with single-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 VEnclosure0degree of protection NEMA rating design of the housingOpen device (no enclosure)Mounting/wiringNAMounting/wiringNamounting positionVerticalfastening methodSurface 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 cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable outgoing feeder scables single outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder ables for load-side outgoing feeder55 °Ctemperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder material of		5A@600VAC (B600), 1A@250VDC (R300)		
• with multi-phase operation at AC rated value 300 V Enclosure	insulation voltage (Ui)			
Enclosure degree of protection NEMA rating Open device (no enclosure) Mounting/wiring NA Mounting/wiring Na 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 45 45 lbf-in type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 1x(14 - 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder Box lug tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of electrical connection for load-side outgoing feeder Box lug tightening torque [lbf-in] for load-side outgoing feeder Box lug tightening torque [lbf-in] for load-side outgoing feeder 1x(14 - 2 AWG) cables for load-side outgoing feeder 1x(14 - 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C maximum permissible 75 °C material of the conductor for load-side outgoing feeder	 with single-phase operation at AC rated value 	600 V		
degree of protection NEMA ratingOpen device (no enclosure)design of the housingNAMounting/wiringNAmounting positionVerticalfastening methodSurface 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 cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder45 45 lbf-intype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf in] for load-side outgoing feederBox lugtightening torque [lbf in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °C	 with multi-phase operation at AC rated value 	300 V		
design of the housingNAMounting/wiringmounting positionVerticalfastening methodSurface 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 cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder45 45 lbf-intightening torque [lbf-in] for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder45 45 lbf-intightening torque [lbf-in] for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaximum permissibleAL or CUmaterial of the conductor for load-side outgoing feederAL or CU	Enclosure			
Mounting/wiringmounting positionVerticalfastening methodSurface 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 cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables single or multi-stranded50 lugtemperature of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder50 lugtightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtemperature of the conductor for load-side outgoing feederAL or CU	degree of protection NEMA rating	Open device (no enclosure)		
mounting positionVerticalfastening methodSurface 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 cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf-in] for load-side outgoing feederBox lugtemperature of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissibleTx(14 - 2 AWG)temperature of the conductor for load-side outgoing feederAL or CUtemperature of the conductor for load-side outgoing feeder75 °C	design of the housing	NA		
fastening methodSurface 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 cables 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 feeder tightening torque [lbf·in] for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible5 45 lbf·intemperature of the conductor for load-side outgoing feeder cables for load-side outgoing feeder maximum permissible1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissibleAL or CU	Mounting/wiring			
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supplyBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables of local-side outgoing feeder45 45 lbf-intype 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 at AWG cables for load-side outgoing feeder stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	mounting position	Vertical		
tightening torque [lbf·in] for supply45 45 lbf·intype of connectable conductor cross-sections at line-side at AWG cables 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 feeder tightening torque [lbf·in] for load-side outgoing feeder8ox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Ctemperature of the conductor for load-side outgoing feeder AL or CU50 °Ctemperature of the conductor for load-side outgoing feeder AL or CU1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder AL or CUAL or CU	fastening method	Surface mounting and installation		
type of connectable conductor cross-sections at line-side at AWG cables 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 feeder tightening torque [lbf·in] for load-side outgoing feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	type of electrical connection for supply voltage line-side	Box lug		
at AWG cables single or multi-stranded75 °Ctemperature 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 at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUAL or CUAL or CU	tightening torque [lbf·in] for supply	45 45 lbf·in		
permissibleAL or CUmaterial 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 at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU		1x(14 - 2 AWG)		
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 at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU		75 °C		
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 at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	material of the conductor for supply	AL or CU		
tightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU		Box lug		
cables for load-side outgoing feeder single or multi- stranded feeder single or multi- stranded 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		45 45 lbf·in		
maximum permissible material of the conductor for load-side outgoing feeder AL or CU	cables for load-side outgoing feeder single or multi-	1x(14 - 2 AWG)		
		75 °C		
type of electrical connection of magnet coil	material of the conductor for load-side outgoing feeder	AL or CU		
type of decined connection of magnet con sciew-type terminals	type of electrical connection of magnet coil	screw-type terminals		
tightening torque [lbf·in] at magnet coil 5 12 lbf·in	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)		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 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) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14FUF32AL Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:14FUF32AL Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)				
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14FUF32AL⟨=en Certificates/approvals				

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:14FUF32AL/certificate

last modified:

11/29/2021 🖸