# **SIEMENS**

## Data sheet

# US2:14DUB32AE

Non-reversing motor starter Size 1 Three phase full voltage Solidstate overload relay OLRelay amp range 0.75-3.4A 550/575-600 50/60HZ coil Combination type No enclosure



Figure similar

General technical data	
Weight [lb]	3 lb
Height x Width x Depth [in]	7.44 × 5.75 × 3.75 in
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
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	Mexico
Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	0.5 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value	1.5 hp

• at 575/600 V rated value

2 hp

Contactor         3           Operating voltage for main contacts         3           Operating voltage for main current circuit at AC at 60         400 V           Iz maximum         600 V           Operating current at AC at 600 V rated value         27 A           Mechanical service life (switching cycles) of the main contacts typical         10000000           Auxiliary contact         1           Number of NC contacts at contactor for auxiliary contacts         1           Contact rating of auxiliary contacts maximum         8           Contact rating of auxiliary contacts of contactor according to UL         10A@600VAC (A600), 5A@600VDC (P600)           Contact rating of auxiliary contacts of contactor according to UL         0           Type of voltage of the control supply voltage         AC           Control supply voltage         0           • at DC rated value         0 0 V           • at AC at 50 Hz rated value         550 550 V           Holding power at AC minimum         86 W           Apparent hick-up power of magnet coil at AC         25 V A           Operating range factor control supply voltage rated value         0 50 V           Switch-on delay time         19 29 ms           Other lay time         10 24 ms           Operating range factor control supply voltage r	• at 575/600 V rated value	2 hp
Number of NO contacts for main contacts         3           Operating voltage for main current circuit at AC at 60         600 V           Hz maximum         600 V           Operating current at AC at 600 V rated value         27 A           Mechanical service life (switching cycles) of the main contacts typical         10000000           Auxiliary contact         0           Number of NC contacts at contactor for auxiliary contacts         1           Number of NC contacts at contactor for auxiliary contacts         1           Number of NC contacts at contacts of contactor according to UL         0           Contact rating of auxiliary contacts of contactor according to UL         0           Coll         Type of voltage of the control supply voltage         AC           Control supply voltage         0         0         0           • at C at 60 Hz rated value         575 600 V         0         0           • at AC at 60 Hz rated value         5550 550 V         0         0         0           Holding power at AC minimum         8.6 W         25 V.A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Contactor	
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Operating current at AC at 600 V rated value       27 A         Mechanical service life (switching cycles) of the main contacts typical       10000000         Auxiliary contact       0         Number of NC contacts at contactor for auxiliary contacts       0         Number of total auxiliary contacts maximum       8         Contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coll       0         Control supply voltage       AC         Control supply voltage       0         • at DC rated value       00 V         • at AC at 60 Hz rated value       550 V         • at AC at 50 Hz rated value       550 V         • at AC at 50 Hz rated value       25 V-A         Operating range factor control supply voltage rated value       60%         • at AC at 50 Hz rated value       50 %         • body and magnet coil at AC       25 V-A         Operating range factor control supply voltage rated value       50 %         • body and magnet coil at AC       25 V-A         Operating range factor control supply voltage rated value       50 %         • bring voltage of magnet coil at AC       25 V-A         Operating range factor control supply voltage rated value       50 %         • bring voltage of magnet coil at A	Operating voltage for main current circuit at AC at 60	600 V
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contacts typical         Auxiliary contact         Number of NC contacts at contactor for auxiliary contacts       0         Number of NC contacts at contactor for auxiliary contacts       1         Number of total auxiliary contacts maximum       8         Contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coll       Type of voltage of the control supply voltage       AC         Control supply voltage       0 0 V       4 AC at 60 Hz rated value       575 600 V         • at AC at 60 Hz rated value       550 550 V       50 550 V         Holding power at AC minimum       8.6 W       Apparent pick-up power of magnet coil at AC       218 V-A         Apparent pick-up power of magnet coil related to the input voltage of magnet coil related to the input voltage       50 %       50 %         Percental drop-out voltage of magnet coil related to the input voltage       50 %       50 %         Product function       Yes       90 29 ms       50 %         • Overload protection       Yes       Yes       Yes         • Phase failure detection       Yes       Yes       Yes         • Phase mubalance       Yes       Yes       Yes         • Faster function       Yes       Yes       Yes <td< td=""><td>Operating current at AC at 600 V rated value</td><td>27 A</td></td<>	Operating current at AC at 600 V rated value	27 A
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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       Yes         Product function       Yes         • Phase failure detection       Yes         • Phase unbalance       Yes         • Ground fault detection       Yes         • Test function       Yes         • External reset       No         Reset function       Manual, automatic and remote	Holding power at AC minimum	8.6 W
Operating range factor control supply voltage rated value of magnet coil0.85 1.1Percental drop-out voltage of magnet coil related to the input voltage50 %Switch-on delay time19 29 msOff-delay time10 24 msOverload relayYesProduct functionYes• Overload protectionYes• Phase failure detectionYes• Phase unbalanceYes• Ground fault detectionYes• Test functionYes• External resetNoReset functionManual, automatic and remote		218 V·A
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• Phase unbalanceYes• Ground fault detectionYes• Test functionYes• External resetNoReset functionManual, automatic and remote	<ul> <li>Overload protection</li> </ul>	Yes
• Ground fault detection     Yes       • Test function     Yes       • External reset     No       Reset function     Manual, automatic and remote	<ul> <li>Phase failure detection</li> </ul>	Yes
• Test function     Yes       • External reset     No       Reset function     Manual, automatic and remote	Phase unbalance	Yes
External reset     No     Reset function     Manual, automatic and remote	<ul> <li>Ground fault detection</li> </ul>	Yes
Reset function Manual, automatic and remote	Test function	Yes
	• External reset	No
Trip class Class 5 / 10 / 20 (factory set) / 30	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       0.75 3.4 A         Trip 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 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         Scontact 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 Design of the housing       Open device (no enclosure)         Mounting/wiring       NA         Mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side       Screw-type terminals	
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       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 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         • with multi-phase operation at AC rated value       90 Pen device (no enclosure)         Degree of protection NEMA rating of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
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       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         Degree of protection NEMA rating of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
board       Image: Second	
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 multi-phase operation at AC rated value       600 V         Degree of protection NEMA rating of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting/wiring       Vertical         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
overload relay       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 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       300 V         Enclosure       Open device (no enclosure)         Degree of protection NEMA rating of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting/wiring       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
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         • 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 of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting/wiring       Surface mounting and installation         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
• 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         • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V         300 V           Enclosure         Open device (no enclosure)         Degree of protection NEMA rating of the enclosure           Design of the housing         NA         Na           Mounting/wiring         Surface mounting and installation           Type of electrical connection for supply voltage line-         Screw-type terminals	
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       300 V       •         Enclosure       Open device (no enclosure)       •         Degree of protection NEMA rating of the enclosure       Open device (no enclosure)       •         Design of the housing       NA       •         Mounting/wiring       Vertical       •         Mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
according to UL       Insulation voltage         • with single-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 of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting/wiring       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
<ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>300 V</li> <li>Enclosure</li> <li>Degree of protection NEMA rating of the enclosure</li> <li>Design of the housing</li> <li>NA</li> <li>Mounting/wiring</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-</li> </ul>	
with multi-phase operation at AC rated value 300 V      Enclosure     Degree of protection NEMA rating of the enclosure Open device (no enclosure)     Design of the housing NA      Mounting/wiring     Mounting position Vertical     (mounting type) Surface mounting and installation     Type of electrical connection for supply voltage line-	
Enclosure       Degree of protection NEMA rating of the enclosure     Open device (no enclosure)       Design of the housing     NA       Mounting/wiring     Vertical       (mounting type)     Surface mounting and installation       Type of electrical connection for supply voltage line-     Screw-type terminals	
Degree of protection NEMA rating of the enclosure       Open device (no enclosure)         Design of the housing       NA         Mounting/wiring       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
Design of the housing       NA         Mounting/wiring       Vertical         Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
Mounting/wiring       Mounting position     Vertical       (mounting type)     Surface mounting and installation       Type of electrical connection for supply voltage line-     Screw-type terminals	
Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
Mounting position       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-       Screw-type terminals	
Type of electrical connection for supply voltage line- Screw-type terminals	
Tightening torque [lbf·in] for supply       35 35 lbf·in	
Type of connectable conductor cross-sections at line-1x(14 - 2 AWG)side at AWG conductors single or multi-stranded	
Temperature of the conductor for supply maximum75 °Cpermissible75 °C	
Material of the conductor for supply AL or CU	
Type of electrical connection for load-side outgoing       Screw-type terminals         feeder       Image: Screw-type terminals	
Tightening torque [lbf·in] for load-side outgoing       20 24 lbf·in         feeder       20 24 lbf·in	
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded2 x (14 - 10 AWG)	
Temperature of the conductor for load-side outgoing75 °Cfeeder maximum permissible75 °C	
Material of the conductor for load-side outgoing CU feeder	
Type of electrical connection of magnet coil screw-type terminals	

Tightoning torque []hf.in] at magnet poil	5 10 lbf.in
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)

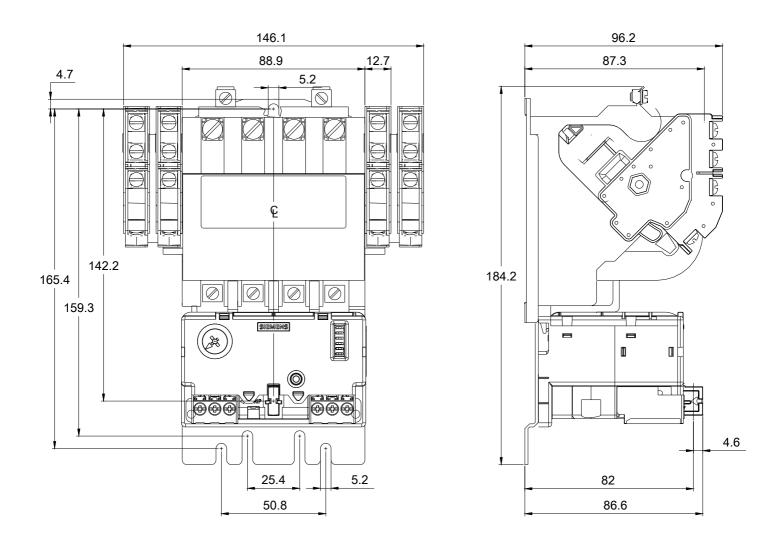
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14DUB32AE

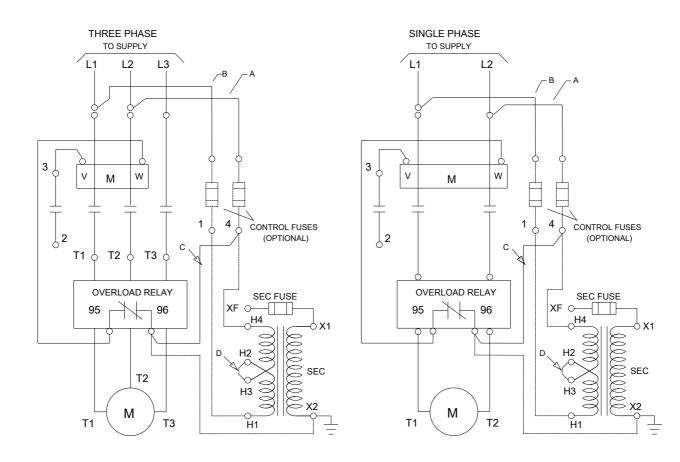
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB32AE

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14DUB32AE&lang=en

#### Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB32AE/certificate





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