# **SIEMENS**

## Data sheet

## US2:22BUA32BC

Reversing motor starter Size 00 Three phase full voltage Solid-state overload relay OLRelay amp range 0.25-1A Non-combination type Enclosure NEMA type 1 Indoor general purpose use



Figure similar

General technical data	
Weight [lb]	23 lb
Height x Width x Depth [in]	20 × 12 × 8 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	0.17 hp
• at 220/230 V rated value	0.17 hp
• at 460/480 V rated value	0.33 hp

0.5 hp

• at 575/600 V rated value	0.5 hp
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	9 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	8
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	
<ul> <li>at DC rated value</li> </ul>	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	
Overload protection	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-       0.25 1 A         dependent overload release       3 s         Make time with automatic start after power failure       3 s         maximum       1 %         Product feature Protective coating on printed-circuit board       1 %         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 A         Contact raing of auxiliary contacts of overload relay       600 V         • at DC at 250 V       1 A         Contact raing of auxiliary contacts of overload relay       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       300 V         Enclosure       NEMA Type 1         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting vosition)       Vertical         (mounting position)       Vertical         Tightening torque [lbf-in] for supply       20 20 lbf in         Type of electrical connectable conductor for supply maximum permissible       75 °C         Material of the conductor for load-side outgoing		
maximum       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         Contact rating of auxiliary contacts of overload relay       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       800 V         • with multi-phase operation at AC rated value       800 V         • with multi-phase operation at AC rated value       800 V         • with multi-phase operation at AC rated value       800 V         • with multi-phase operation at AC rated value       800 V         • with multi-phase operation at AC rated value       900 V         • with single-phase operation at AC rated value       900 V         • with multi-phase operation at AC rated value       900 V         • mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals		0.25 1 A
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 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       800 V         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wring       (mounting position)         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side at AWG conductors single or multi-stranded       75 °C         Temperature of the conductor for supply maximum permissible       20 24 libFin         Material of the conductor for load-side outgoing feeder       20 24 libFin		3 s
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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 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         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wing       (mounting type)         Type of electrical connection for supply voltage line-side       Screw-type terminals         side at AWG conductor cross-sections at line-side       1x (14 2 AWG)         Tightening torque [lbfin] for supply       20 20 lbfin         Type of electrical connection for load-side outgoing feeder       Screw-type terminals         Tightening torque [lbfin] for load-side outgoing feeder       Screw-type terminals         Tightening torque [lbfin] for load-side outgoing feeder single       Screw-type terminals         Tightening torque [lbfin] for load-side outgoing feeder single       Screw-type terminals         Tightening torque [lbfin] for load-side outgoin		Yes
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       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 Type 1         Design of the housing       Indoor general purpose use         Mounting /wiring       (mounting position)         (mounting position)       Vertical         (mounting trype)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         Tightening torque [lbf in] for supply voltage line-side       Screw-type terminals         Tightening torque [lbf in] for supply maximum persitie       75 °C         Material of the conductor for supply maximum persitie       20 24 lbf in         Tightening torque [lbf in] for load-side outgoing feeder       21 24 WG)         Tightening torque [lbf in] for load-side outgoing feeder       21 24 lbf in         Tightening torque [lbf in] for load-side outgoing feeder       21 10 AWG)         <	-	1
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 Type 1         Design of the housing       Indoor general purpose use         Mounting/wring       (mounting type)         Surface mounting and installation       Screw-type terminals         side       Tightening torque [lbf-in] for supply voltage line-side at AWG conductor for supply maximum permissible         Material of the conductor for supply maximum feeder       75 °C         Tightening torque [lbf-in] for load-side outgoing feeder       Screw-type terminals         Tightening torque [lbf-in] for load-side outgoing feeder       Screw-type terminals         Tupp of electrical connection for load-side outgoing feeder       Screw-type terminals         Tupp of onnectable conductor for supply       AL or CU         Type of onnectable conductor for supply       AL or CU         Tupp of connectable conductor for supply       Screw-type terminals         feeder       2x (14	-	1
e 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       300 V         Enclosure       Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wring       (mounting position)       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         Tightening torque [lbf-in] for supply       20 20 lbf-in         Type of connectable conductor for supply maximum permissible       1x (14 2 AWG)         Material of the conductor for supply maximum permissible       25 rcw-type terminals         Tightening torque [lbf-in] for load-side outgoing feeder       20 24 lbf-in         Tightening torque [lbf-in] for load-side outgoing       22 (x (14 10 AWG)         Tupp of connectable conductor rors-sections at AC rate outgoing feeder       22 (14 10 AWG)         Tuppe of the conductor for load-side outgoing feeder single       21 (14 10 AWG)		
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         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wiring       (mounting position)         (mounting position)       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         side at AWG conductor 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       20 24 lbf in         Tightening torque [lbf-in] for load-side outgoing feeder       2x (14 10 AWG)         Type of connectable conductor rores-sections at AWG conductors for load-side outgoing feeder       2x (14 10 AWG)	• at AC at 600 V	5 A
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       300 V         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wiring       (mounting position)         Vertical       Surface mounting and installation         Type of electrical connection for supply voltage line-side       Screw-type terminals         side       20 20 lbf-in         Type of connectable conductor cross-sections at line-side       1x (14 2 AWG)         Material of the conductor for supply maximum permissible       75 °C         Material of the conductor cross-sections at at or CU       Screw-type terminals         Tightening torque [lbf-in] for load-side outgoing feeder       20 24 lbf-in         Type of connectable conductor cross-sections at AC or CU       Screw-type terminals         Material of the conductor cross-sections at AC or CU       X (14 10 AWG)         Type of connectable conductor cross-sections at AC or CU       2x (14 10 AWG)         Type of connectable conductor cross-sections at AC or CU       2x (14 10 AWG)	● at DC at 250 V	1 A
• with single-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 VEnclosureDegree of protection NEMA rating of the enclosureDesign of the housingIndoor general purpose useMounting/wiringIndoor general purpose use(mounting position)Vertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line-sideScrew-type terminalsside20 20 lbf inType of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded1x (14 2 AWG)Material of the conductor for supplyAL or CUType of electrical connection for load-side outgoing feeder20 24 lbf inTightening torque [lbf-in] for load-side outgoing feeder20 24 lbf inType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder2x (14 10 AWG)Type of connectable conductor for load-side outgoing feeder2x (14 10 AWG)		5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value       300 V         Enclosure       Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wiring       (mounting position)       Vertical         (mounting type)       Surface mounting and installation         Type of electrical connection for supply voltage line- side       Screw-type terminals         Tightening torque [lbf-in] for supply       20 20 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 maximum permissible       75 °C         Material of the conductor for supply       AL or CU         Type of connectable conductor for supply       Screw-type terminals         feeder       20 24 lbf-in         Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder       2x (14 10 AWG)         Type of connectable conductor for load-side outgoing feeder single or multi-stranded       2x (14 10 AWG)	Insulation voltage	
Enclosure         Degree of protection NEMA rating of the enclosure       NEMA Type 1         Design of the housing       Indoor general purpose use         Mounting/wiring       (mounting position)         Vertical       surface mounting and installation         Type of electrical connection for supply voltage line- side       Screw-type terminals         Tightening torque [lbf-in] for supply       20 20 lbf-in         Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded       1x (14 2 AWG)         Temperature of the conductor for supply maximum permissible       75 °C         Material of the conductor for supply       AL or CU         Type of connectable conductor cross-sections at at upper of connectable conductor for supply       20 24 lbf-in         Material of the conductor for load-side outgoing feeder       20 24 lbf-in         Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded       2x (14 10 AWG)	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
Degree of protection NEMA rating of the enclosureNEMA Type 1Design of the housingIndoor general purpose useMounting/wiring(mounting position)(mounting position)Vertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideScrew-type terminalsTightening torque [lbf-in] for supply20 20 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 supplyAL or CUType of electrical connection for load-side outgoing feederScrew-type terminalsTightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-inType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded20 24 lbf-inType of connectable conductor for supply20 24 lbf-inType of connectable conductor for load-side outgoing feeder2x (14 10 AWG)Type of connectable conductor for load-side outgoing feeder single or multi-stranded75 °C	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Degree of protection NEMA rating of the enclosureNEMA Type 1Design of the housingIndoor general purpose useMounting/wiring(mounting position)(mounting position)Vertical(mounting type)Surface mounting and installationType of electrical connection for supply voltage line- sideScrew-type terminalsTightening torque [lbf-in] for supply20 20 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 supplyAL or CUType of electrical connection for load-side outgoing feederScrew-type terminalsTightening torque [lbf-in] for load-side outgoing feeder20 24 lbf-inType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded20 24 lbf-inType of connectable conductor for samply20 24 lbf-inType of connectable conductor for load-side outgoing feeder2x (14 10 AWG)Type of connectable conductor for load-side outgoing feeder single or multi-stranded75 °C	Enclosure	
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feeder     Type of connectable conductor cross-sections at     2x (14 10 AWG)       AWG conductors for load-side outgoing feeder single     or multi-stranded       Temperature of the conductor for load-side outgoing     75 °C	(mounting position) (mounting type) Type of electrical connection for supply voltage line- 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	Surface mounting and installation Screw-type terminals 20 20 lbf·in 1x (14 2 AWG) 75 °C
AWG conductors for load-side outgoing feeder single         or multi-stranded         Temperature of the conductor for load-side outgoing       75 °C	<ul> <li>(mounting position)</li> <li>(mounting type)</li> <li>Type of electrical connection for supply voltage lineside</li> <li>Tightening torque [lbf·in] for supply</li> <li>Type of connectable conductor cross-sections at lineside at AWG conductors single or multi-stranded</li> <li>Temperature of the conductor for supply maximum permissible</li> <li>Material of the conductor for supply</li> <li>Type of electrical connection for load-side outgoing</li> </ul>	Surface mounting and installation Screw-type terminals 20 20 lbf·in 1x (14 2 AWG) 75 °C AL or CU
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feeder maximum permissible	(mounting position)(mounting type)Type of electrical connection for supply voltage line- sideTightening torque [lbf-in] for supplyType of connectable conductor cross-sections at line- side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximum permissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoing feederTightening torque [lbf-in] for load-side outgoing feederType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder	Surface mounting and installation Screw-type terminals 20 20 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf·in 2x (14 10 AWG)
Material of the conductor for load-side outgoing CU feeder	(mounting position)(mounting type)Type of electrical connection for supply voltage line- sideTightening torque [lbf-in] for supplyType of connectable conductor cross-sections at line- side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximum permissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoing feederTightening torque [lbf-in] for load-side outgoing feederType of connectable conductor cross-sections at AWG conductors for load-side outgoing feederType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-strandedTemperature of the conductor for load-side outgoing feeder	Surface mounting and installation Screw-type terminals 20 20 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf·in 2x (14 10 AWG)

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	2x (16 12 AWG)
magnet coil at AWG conductors single or multi- stranded	
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	1x (12 AWG), 2x (16 14 AWG), 2x (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	2x (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	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
Further information	

#### Further information

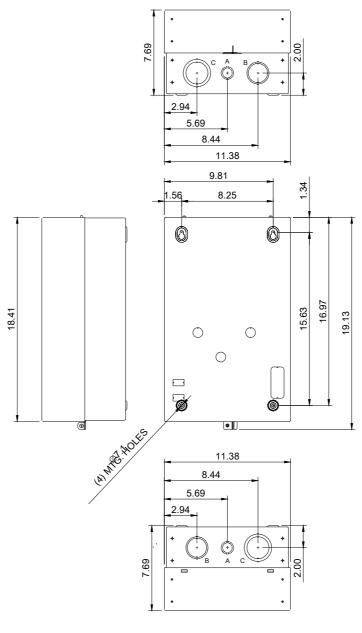
Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22BUA32BC

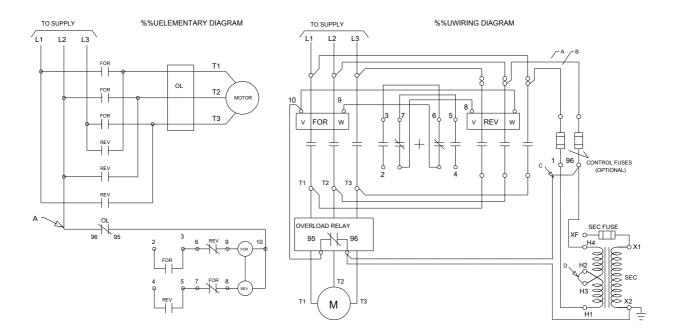
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LETTER	KNOCKOUT & CONDUIT SIZE
A	%%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT
В	%%C43.6 X %%C50 FOR 31.8 & 38.1 CONDUIT
С	%%C50 X %%C62.7 FOR 38.1 & 50.8 CONDUIT



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