## **SIEMENS**

## Data sheet

## US2:30HUGF32A2HF

2-speed 3-phase motor starter Size 3 One winding consequent pole Constant horsepower Solid-state overload relays Low SPD OLR range 13-52a High SPD OLR range 25-100A 110V 50HZ / 120V 60HZ coil Enclosure NEMA type (open) No enclosure



Figure similar

General technical data	
Weight [lb]	16 lb
Height x Width x Depth [in]	11.44 × 18.75 × 5.85 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	USA
Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	20 hp
• at 220/230 V rated value	25 hp
• at 460/480 V rated value	40 hp

• at 575/600 V ra	ated value
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40 hp

• at 575/600 V rated value	40 hp
Contactor	
Number of NO contacts for main contacts	6
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	90 A
Mechanical service life (switching cycles) of the main contacts typical	500000
Auxiliary contact	
Number of NC contacts at contactor for auxiliary contacts	2
Number of NO contacts at contactor for auxiliary contacts	2
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
• at AC at 60 Hz rated value	120 120 V
• at AC at 50 Hz rated value	110 110 V
Holding power at AC minimum	28 W
Apparent pick-up power of magnet coil at AC	620 V·A
Apparent holding power of magnet coil at AC	52 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	26 41 ms
Off-delay time	14 19 ms
Overload relay	
Product function	
<ul> <li>Overload protection</li> </ul>	Yes
<ul> <li>Phase failure detection</li> </ul>	Yes
Phase unbalance	Yes
<ul> <li>Ground fault detection</li> </ul>	Yes
• Test function	Yes
• External reset	No
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
Adjustable pick-up value current of overload relay	

<ul> <li>for low rotational speed</li> </ul>	13 52 A
<ul> <li>for high rotational speed</li> </ul>	25 100 A
Make time with automatic start after power failure maximum	3 s
Relative repeat accuracy	1 %
Product feature Protective coating on printed-circuit	Yes
board	
Number of NC contacts of auxiliary contacts of	1
overload relay	
Number of NO contacts of auxiliary contacts of	1
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	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	
Insulation voltage	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
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Enclosure	
Degree of protection NEMA rating of the enclosure	Open device (no enclosure)
Mounting/wiring Mounting position	Vertical
Mounting/wiring	Vertical
Mounting/wiring Mounting position Mounting type	Vertical Surface mounting and installation
Mounting/wiring Mounting position	Vertical
Mounting/wiring Mounting position Mounting type Type of electrical connection for supply voltage line-	Vertical Surface mounting and installation
Mounting/wiring Mounting position Mounting type Type of electrical connection for supply voltage line- side	Vertical Surface mounting and installation Box lug
Mounting/wiring Mounting position Mounting type Type of electrical connection for supply voltage line- side Tightening torque [lbf·in] for supply	Vertical Surface mounting and installation Box lug 120 120 lbf·in
Mounting/wiring         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-	Vertical Surface mounting and installation Box lug 120 120 lbf·in
Mounting/wiring         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG)
Mounting/wiring         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG)
Mounting/wiring         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C
Mounting/wiring         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         Material of the conductor for supply	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU
Mounting/wiring         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         Material of the conductor for supply         Type of electrical connection for load-side outgoing	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU
Mounting/wiring         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         Material of the conductor for supply         Type of electrical connection for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug
Mounting/wiring         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         Material of the conductor for supply         Type of electrical connection for load-side outgoing feeder         Tightening torque [lbf·in] for load-side outgoing	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug
Mounting/wiring         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         Material of the conductor for supply         Type of electrical connection for load-side outgoing feeder         Tightening torque [lbf-in] for load-side outgoing feeder	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in
Mounting/wiring         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         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in
Mounting/wiring         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         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in
Mounting/wiring         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         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         Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in 1x (14 2/0 AWG)
Mounting/wiring         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         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         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	Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in 1x (14 2/0 AWG)
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Type of electrical connection of magnet coil	Screw-type terminals
Tightening torque [lbf-in] at magnet coil	5 12 lbf in
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi- stranded	2x (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	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 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	

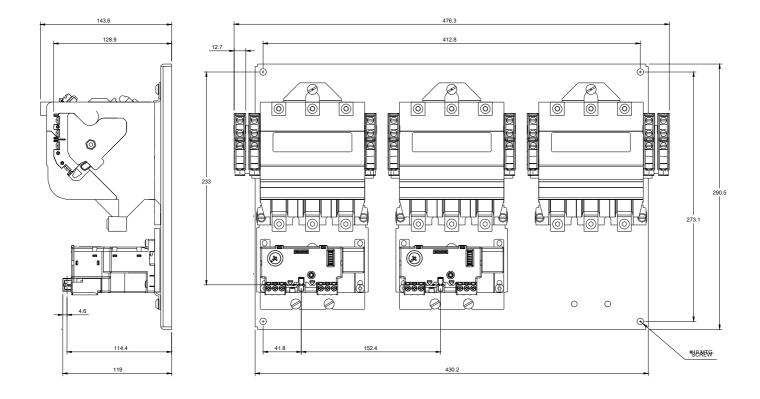
## Further information

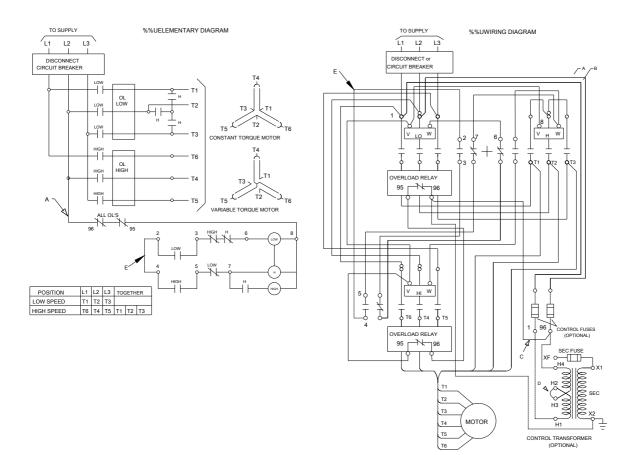
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