SIEMENS

Data sheet

US2:30EUEC32A2HF



2-speed 3-phase motor starter Size 1 3/4 One winding consequent pole Constant horsepower Solid-state overload relays Low SPD OLR range 3-12A High SPD OLR range 10-40a 110V 50HZ / 120V 60HZ coil Enclosure NEMA type (open) No enclosure

product brand name	Class 30	
design of the product	Full-voltage two speed motor starter	
special product feature	ESP200 overload relay; Half-size controller	
General technical data		
weight [lb]	8 lb	
Height x Width x Depth [in]	7.69 × 10.5 × 3.92 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 	7.5 hp	
• at 220/230 V rated value	7.5 hp	
• at 460/480 V rated value	10 hp	
• at 575/600 V rated value	10 hp	
Contactor		
size of contactor	Controller half size 1 3/4	
number of NO contacts for main contacts	6	
operating voltage for main current circuit at AC at 60 Hz maximum	600 V	
operational current at AC at 600 V rated value	40 A	
mechanical service life (operating cycles) of the main contacts typical	1000000	
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	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		
• at AC at 50 Hz rated value	110 V	
• at AC at 60 Hz rated value	120 V	
holding power at AC minimum	8.6 W	
apparent pick-up power of magnet coil at AC	218 VA	

apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of	25 VA 0.85 1.1
magnet coil	0.00 1. 1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
asymmetry detection	Yes
ground fault detection	Yes
• test function	Yes
external reset	No
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of overload relay	
for low rotational speed	3 12 A
 for high rotational speed 	10 40 A
make time with automatic start after power failure 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 NO contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1A
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 single-phase operation at AC rated value with multi-phase operation at AC rated value 	600 V 300 V
with multi-phase operation at AC rated value	
with multi-phase operation at AC rated value Mounting/wiring	300 V
with multi-phase operation at AC rated value Mounting/wiring mounting position	300 V Vertical Surface mounting and installation
with multi-phase operation at AC rated value Mounting/wiring mounting position fastening method	300 V Vertical
with multi-phase operation at AC rated value Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	300 V Vertical Surface mounting and installation Screw-type terminals
with multi-phase operation at AC rated value Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply	300 V Vertical Surface mounting and installation Screw-type terminals 45 45 lbf-in
with multi-phase operation at AC rated value Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	300 V Vertical Surface mounting and installation Screw-type terminals 45 45 lbf-in
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with multi-phase operation at AC rated value Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil temperature of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of electrical connection for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts	300 V Vertical Surface mounting and installation Screw-type terminals 45 45 lbf in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 45 45 lbf in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 45 45 lbf in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)

contacts	
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables 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
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/iccatal

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:30EUEC32A2HE

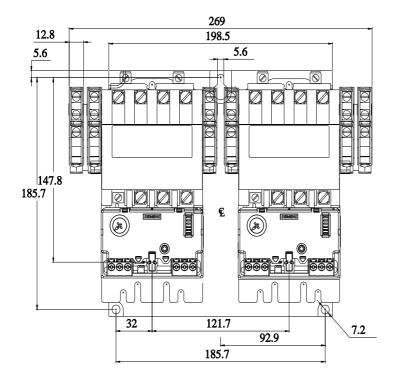
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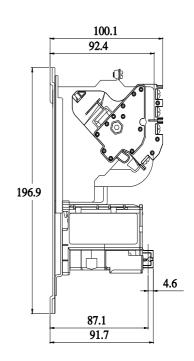
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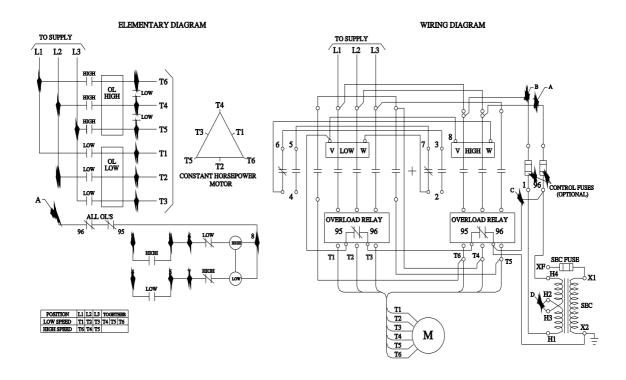
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30EUEC32A2HF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:30EUEC32A2HF/certificate







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