SIEMENS

Data sheet

US2:32DUEE92N1VF



2-speed 3-phase motor starter, Size 1, Two separate windings, Constant or variable torque, Solid-state overload relays, Low Spd OLR range 10-40A, High Spd OLR range 10-40A, 110V 50Hz / 120V 60Hz coil, Combination type, 30A circuit breaker, Enclosure NEMA type 4/12, Water/dust tight for outdoors

F		
product brand name	Class 32	
design of the product	Full-voltage two speed motor starter with MCP	
special product feature	ESP200 overload relay	
General technical data		
weight [lb]	51 lb	
Height x Width x Depth [in]	24 × 20 × 8 in	
touch 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	
during operation	-4 +104 °F	
ambient temperature		
during storage	-30 +65 °C	
 during operation 	-20 +40 °C	
country of origin	USA	
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	0 hp	
• at 575/600 V rated value	0 hp	
Contactor		
size of contactor	NEMA controller size 1	
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	27 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	0.85 1.1
magnet coil	0.05 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	Yes
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 	10 40 A
 for high rotational speed 	10 40 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
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	1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
insulation voltage (Ui) • with single-phase operation at AC rated value	600 V
	600 V 300 V
• with single-phase operation at AC rated value	
 with single-phase operation at AC rated value with multi-phase operation at AC rated value 	
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure	300 V
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating	300 V 4, 12
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing	300 V 4, 12
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker	300 V 4, 12 dustproof, waterproof & weatherproof
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only)
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of connectable conductor cross-sections at line-side for	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation Box lug
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG)
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method 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	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU
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with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable 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 for AWG cables	300 V 4, 12 dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 30 A 80 270 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in
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type of electrical connection at contactor 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 for AWG cables 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 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 short-circuit trip	Instantaneous trip circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 A
• at 480 V	100 A
• at 600 V	25 A
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=US2:32DUEE92N1VE

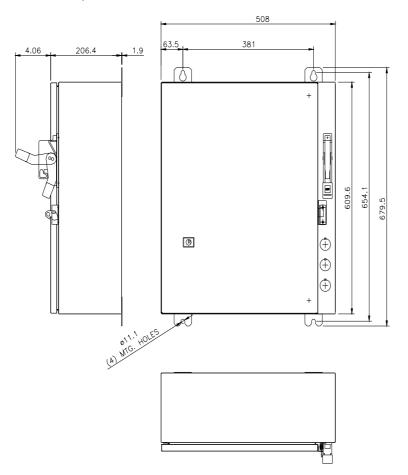
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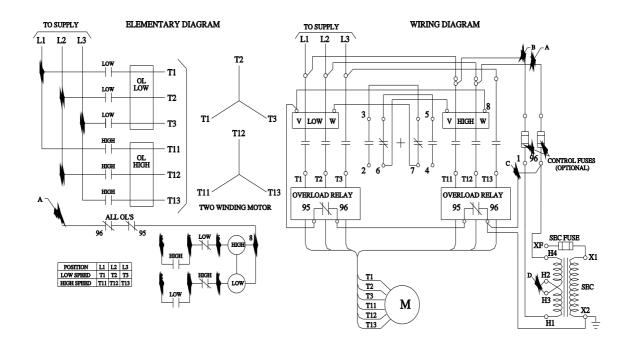
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:32DUEE92N1VF&lang=en

Certificates/approvals

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