## SIEMENS

## Data sheet

## US2:32DUBA92B1VF



2-speed 3-phase motor starter Size 1 Two separate windings Constant or variable torque Solid-state overload relays Low SPD OLR range 0.25-1A High SPD OLR range 0.75-3.4A 110V 50HZ / 120V 60HZ coil Combination type 3Amp circuit breaker Enclosure NEMA type 1 Indoor general purpose use

p.	
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
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-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	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	1.5 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 helding neuror of mannet cell at AQ	25.1/4
apparent holding power of magnet coil at AC	25 VA
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 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
phase failure detection	Yes
<ul> <li>asymmetry detection</li> </ul>	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 current response value current of overload relay	
for low rotational speed	0.25 1 A
<ul> <li>for high rotational speed</li> </ul>	0.75 3.4 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)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> </ul>	600 V 300 V
with single-phase operation at AC rated value     with multi-phase operation at AC rated value Enclosure	600 V 300 V
with multi-phase operation at AC rated value Enclosure	300 V
with multi-phase operation at AC rated value Enclosure design of the housing	
with multi-phase operation at AC rated value Enclosure design of the housing Circuit Breaker	300 V indoors, usable on a general basis
with multi-phase operation at AC rated value  Enclosure  design of the housing  Circuit Breaker  type of the motor protection	300 V indoors, usable on a general basis Motor circuit protector (magnetic trip only)
with multi-phase operation at AC rated value Enclosure 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 indoors, usable on a general basis
with multi-phase operation at AC rated value Enclosure 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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A
with multi-phase operation at AC rated value  Enclosure  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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A
with multi-phase operation at AC rated value  Enclosure  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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical
with multi-phase operation at AC rated value  Enclosure  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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation
with multi-phase operation at AC rated value  Enclosure  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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical
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with multi-phase operation at AC rated value     Enclosure     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 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 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU
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with multi-phase operation at AC rated value  Enclosure  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 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 type of electrical connection 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 lectrical connection of not supply type of electrical connection for load-side outgoing feeder type of load-side outgoing feeder type of lectrical connection of not supply type of electrical connection for load-side outgoing feeder type of load-side outgoing feeder type of electrical connection of not load-side outgoing feeder type of electrical connection of not load-side outgoing feeder type of electrical connection of not load-side outgoing feeder type of electrical connection of not load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	300 V indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2x (14 10 AWG) 75 °C CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)

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
Eurther 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=US2:32DUBA92B1VF

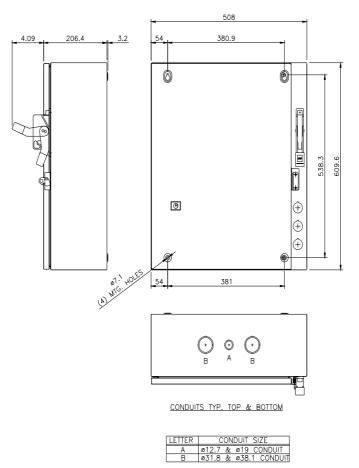
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

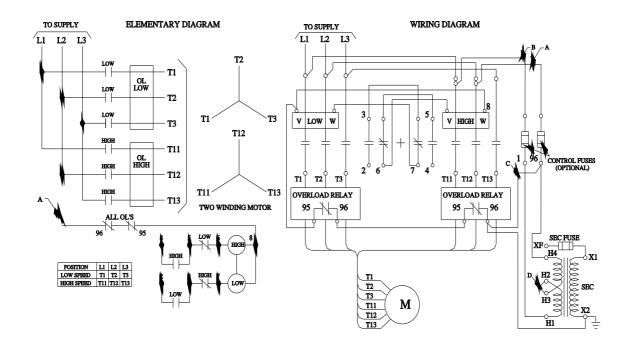
https://support.industry.siemens.com/cs/US/en/ps/US2:32DUBA92B1VF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:32DUBA92B1VF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:32DUBA92B1VF/certificate





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