## **SIEMENS**

Data sheet US2:32DUDC92B1VF



2-speed 3-phase motor starter, Size 1, Two separate windings, Constant or variable torque, Solid-state overload relays, Low Spd OLR range 3-12A, High Spd OLR range 5.5-22A, 110V 50Hz / 120V 60Hz coil, Combination type, 25A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use

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	3 hp			
• at 220/230 V rated value	3 hp			
• at 460/480 V rated value	10 hp			
● at 575/600 V rated value	10 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	10000000			
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				
<ul> <li>at AC at 50 Hz rated value</li> </ul>	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 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				
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	3 12 A				
for high rotational speed	5.5 22 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)					
with single-phase operation at AC rated value	600 V				
	300 V				
with multi-phase operation at AC rated value	300 V				
	300 V				
with multi-phase operation at AC rated value	300 V				
with multi-phase operation at AC rated value     Enclosure	1				
with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating     design of the housing     Circuit Breaker	1 indoors, usable on a general basis				
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	1 indoors, usable on a general basis  Motor circuit protector (magnetic trip only)				
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	1 indoors, usable on a general basis  Motor circuit protector (magnetic trip only) 25 A				
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	1 indoors, usable on a general basis  Motor circuit protector (magnetic trip only)				
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	1 indoors, usable on a general basis  Motor circuit protector (magnetic trip only) 25 A 55 180 A				
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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 (lcu)			
• 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,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:32DUDC92B1VF

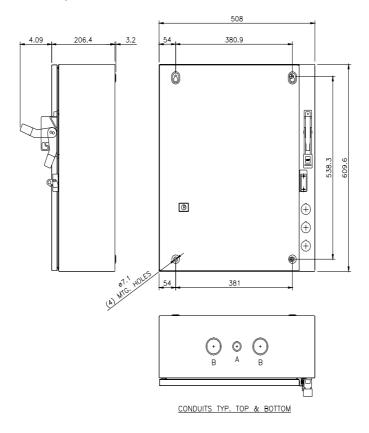
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:32DUDC92B1VF

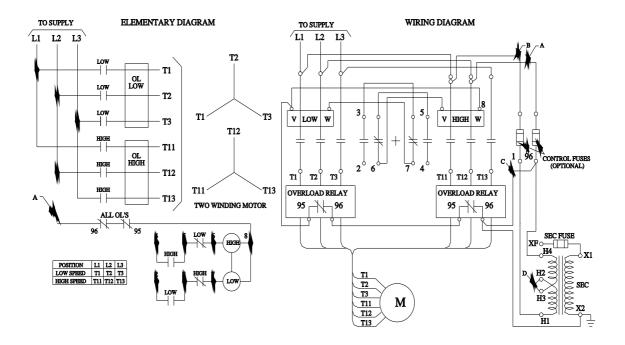
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:32DUDC92B1VF&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:32DUDC92B1VF&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:32DUDC92B1VF/certificate



LETTER	С	ON	DUIT	SIZE
Α	ø12.7	&	ø19	CONDUIT
B	ø.31.8	&	ø.38.	1 CONDUIT



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