SIEMENS

Data sheet US2:30DUCB32A1VF



2-speed 3-phase motor starter Size 1 Two separate windings Constant or variable torque Solid-state overload relays Low SPD OLR range 0.75-3.4A High SPD OLR range 3-12A 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
General technical data	
weight [lb]	8 lb
Height x Width x Depth [in]	7 × 10 × 3 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	2 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	5 hp
• at 575/600 V rated value	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	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	345VA@115VAC / 768VA@240VAC
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 W
apparent pick-up power of magnet coil at AC	218 VA

	05.144
apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of magnet coil	0 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	0 3 A
for high rotational speed	3 12 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	5
insulation voltage (Ui)	
	600 V
with single-phase operation at AC rated value	600 V 300 V
with single-phase operation at AC rated valuewith multi-phase operation at AC rated value	600 V 300 V
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	
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating Mounting/wiring	300 V Open device (no enclosure)
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating Mounting/wiring mounting position	300 V Open device (no enclosure) vertical
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating Mounting/wiring mounting position fastening method	300 V Open device (no enclosure) 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 Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	300 V Open device (no enclosure) vertical Surface mounting and installation Screw-type terminals
with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating 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 Open device (no enclosure) 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 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	Open device (no enclosure) vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1
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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	2
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	10
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
at 600 V certificate of suitability	10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14

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=US2:30DUCB32A1VF

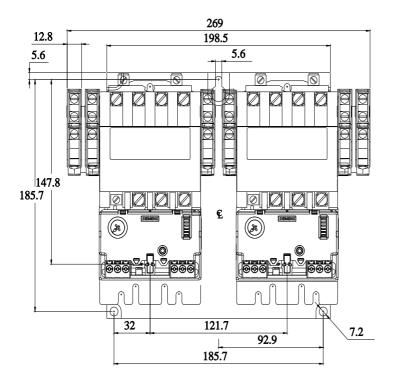
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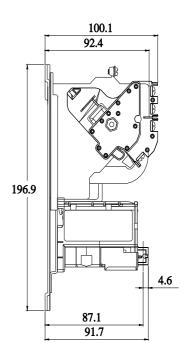
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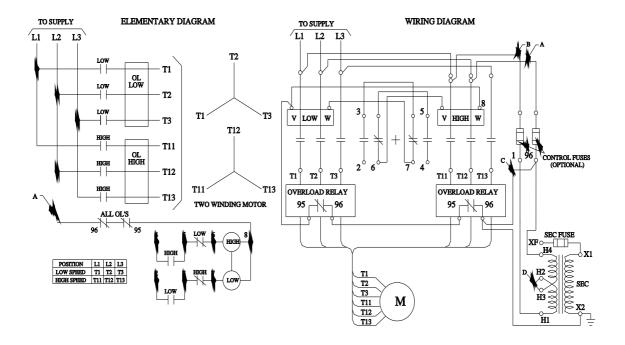
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30DUCB32A1VF&lang=en

Certificates/approvals

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