## SIEMENS

## Data sheet

## US2:83DUB95WJ



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 24VAC 50-60Hz coil, Non-combination type, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

product brand name	Class 83	
design of the product	Duplex controller without alternator	
special product feature	ESP200 overload relay	
General technical data		
weight [lb]	40 lb	
Height x Width x Depth [in]	20 × 16 × 6 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		
<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		
<ul> <li>at 200/208 V rated value</li> </ul>	0.5 hp	
<ul> <li>at 220/230 V rated value</li> </ul>	0.75 hp	
• at 460/480 V rated value	1.5 hp	
• at 575/600 V rated value	2 hp	
Contactor		
size of contactor	NEMA controller size 1	
number of NO contacts for main contacts	3	
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	0	
number of NO contacts at contactor for auxiliary contacts	1	
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 DC rated value	0 0 V	
• at AC at 50 Hz rated value	24 24 V	
• at AC at 60 Hz rated value	24 24 V	
holding power at AC minimum	8.6 W	

opporant nick up now or of managed as it at AQ	240.\/A
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of	25 VA 0.85 1.1
magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the input	50 %
voltage	
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
<ul> <li>asymmetry detection</li> <li>ground fault detection</li> </ul>	Yes
test function	Yes
external reset	Yes
reset function	Manual, automatic and remote
adjustable current response value current of the current-	0.75 3.4 A
dependent overload release	
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
with multi-phase operation at AC rated value	300 V
with multi-phase operation at AC rated value Enclosure	300 V
	300 V NEMA 4x 304 stainless steel enclosure
Enclosure	
Enclosure degree of protection NEMA rating of the enclosure	NEMA 4x 304 stainless steel enclosure
Enclosure degree of protection NEMA rating of the enclosure design of the housing	NEMA 4x 304 stainless steel enclosure
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Screw-type terminals
Enclosure degree of protection NEMA rating of the enclosure design of the housing 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	NEMA 4x 304 stainless steel enclosure         dustproof, waterproof & resistant to corrosion         Vertical         Surface mounting and installation         Screw-type terminals         35 35 lbf-in         1x (14 2 AWG)         75 °C
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Enclosure         degree of protection NEMA rating of the enclosure         design of the housing         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         type of connectable conductor cross-sections for AWG cables         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         maximum permissible         material of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         tightening torque [lbf-in] at magnet coil         tightening torque [lbf-in] at magnet coil         type of connectable conductor cross-sections of magnet coil for	NEMA 4x 304 stainless steel enclosure         dustproof, waterproof & resistant to corrosion         Vertical         Surface mounting and installation         Screw-type terminals         35 35 lbf·in         1x (14 2 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)
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Enclosure         degree of protection NEMA rating of the enclosure         design of the housing         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         type of electrical connection 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 cross-sections for AWG cables         for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         maximum permissible         material of the conductor for load-side outgoing feeder         type of electrical connection of magnet coil         tightening torque [lbf-in] at magnet coil         type of cables single or multi-stranded         temperature of the conductor at magnet coil maximum         permissible         material of the conductor at magnet coil         type of electrical connection at contactor for aux	NEMA 4x 304 stainless steel enclosure         dustproof, waterproof & resistant to corrosion         Vertical         Surface mounting and installation         Screw-type terminals         35 35 lbf-in         1x (14 2 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)         75 °C         CU         Screw-type terminals         5 12 kWG)         75 °C         CU         Screw-type terminals         5 12 kWG)         75 °C         CU         Screw-type terminals

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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	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	

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=US2:83DUB95WJ

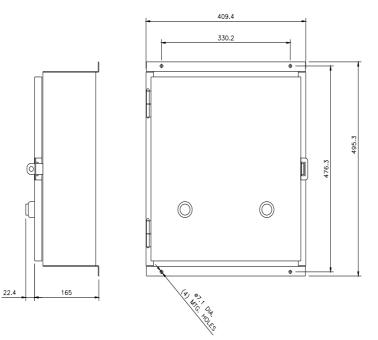
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

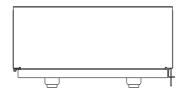
https://support.industry.siemens.com/cs/US/en/ps/US2:83DUB95WJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83DUB95WJ&lang=en

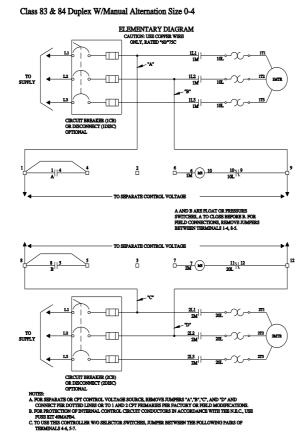
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83DUB95WJ/certificate





## SCHEMATIC DIAGRAM



last modified:

1/25/2022 🖸