SIEMENS

Data sheet US2:84DUC950DF



Duplex starter w/o alternator Size 1 Three phase full voltage Solid-state overload relay OLR amp range 3-12A 110VAC 50Hz / 120VAC 60Hz Coil Combination type Two 30A disconnect switches Enclosure NEMA type 4/12 Water/dust tight weather proof

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches without alternator
special product feature	ESP200 overload relay
General technical data	
weight [lb]	70 lb
Height x Width x Depth [in]	34 × 25 × 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	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	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	10000000
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 	110 110 V
at AC at 60 Hz rated value	120 120 V
holding power at AC minimum	8.6 W

apparent holding power of magnet coil at AC poperating range become holding supply voltage rated value of insignet coil properating range become holding of magnet coil related to the input voltage of magnet coil and included to the input voltage of magnet coil related voltage input voltage of vol	apparent pick up power of magnet sell at AO	210 \/A
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ground fault detection external reset external reset external reset ves ves external reset ves ves ves external reset ves	phase failure detection	Yes
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with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible perating class of the fuse link non-fusible Brocosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections for AVG cables for load-side outgoing feeder stype of connectable conductor for supply AL or CU type of connectable conductor for supply Type of connectable conductor for supply AL or CU type of connectable conductor for supply Type of connectable conductor for 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 of connectable conductor cross-sections of magnet coil		5A@600VAC (B600), 1A@250VDC (R300)
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Pisconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible peroconnectable conductor for load-side outgoing feeder maximum permissible 30A / 600V 30A / 6	 with single-phase operation at AC rated value 	600 V
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degree of protection NEMA rating of the enclosure design of the housing dustproof and drip-proof for indoor use 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 type of electrical connection for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder 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 maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder for CU type of electrical connection of magnet coil for L2 lbf-in type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	design of fuse holder	non-fusible
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AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible rype 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 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 type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 2x (16 12 AWG)	tightening torque [lbf·in] for supply	35 35 lbf-in
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 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 type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)	7.	1x (14 2 AWG)
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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 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 connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)	material of the conductor for supply	AL or CU
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 connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)	type of electrical connection for load-side outgoing feeder	Screw-type terminals
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 connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)	tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf-in
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tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 5 12 lbf-in 2x (16 12 AWG)	material of the conductor for load-side outgoing feeder	AL or CU
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 2x (16 12 AWG)	type of electrical connection of magnet coil	Screw-type terminals
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	·	5 12 lbf·in
·	type of connectable conductor cross-sections of magnet coil for	2x (16 12 AWG)
permissible	temperature of the conductor at magnet coil maximum	75 °C
material of the conductor at magnet coil CU	material of the conductor at magnet coil	cu
type of electrical connection at contactor for auxiliary contacts Screw-type terminals	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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
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=US2:84DUC950DF

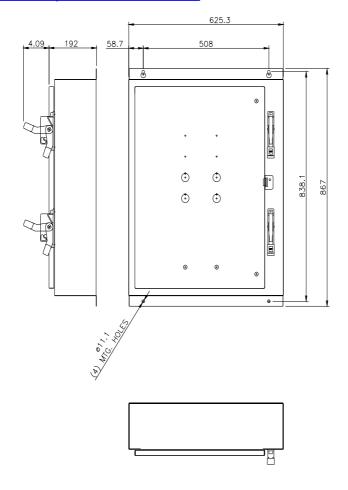
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUC950DF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84DUC950DF&lang=en

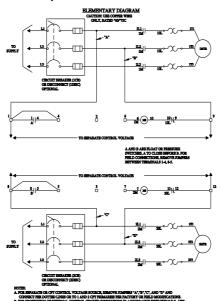
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUC950DF/certificate



SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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last modified: 1/25/2022 🖸