## **SIEMENS**

Data sheet US2:84FUF950DL



Duplex starter w/o alternator Size 2 Three phase full voltage Solid-state overload relay OLR amp range 13-52A 240VAC 50Hz / 277VAC 60Hz Coil Combination type Two 60A 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]	56 × 29 × 10 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
<ul> <li>during storage</li> </ul>	-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	
• at 200/208 V rated value	10 hp
• at 220/230 V rated value	15 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	25 hp
Contactor	
size of contactor	NEMA controller size 2
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	45 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	7
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	240 240 V
at AC at 60 Hz rated value	277 277 V
holding power at AC minimum	8.6 W

apparent holding power of magnet coil at AC 25	
operating range factor control supply voltage rated value of 0.8	8 VA
1 0 0	
-	75 1.1
percental drop-out voltage of magnet coil related to the input voltage	%
ON-delay time 19	29 ms
OFF-delay time 10	24 ms
Overload relay	
product function	
• overload protection Ye	s
• phase failure detection Ye	s
• asymmetry detection Ye	s
• ground fault detection Ye	s
• test function Ye	s
• external reset Ye	s
reset function Ma	anual, automatic and remote
trip class CL	ASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	52 A
tripping time at phase-loss maximum 3 s	
relative repeat accuracy 1 9	6
number of NC contacts of auxiliary contacts of overload relay	
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	A Company of the Comp
• at DC at 250 V	
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	0 V
• with multi-phase operation at AC rated value 300	0 V
Disconnect Switch	
response value of switch disconnector 60	A / 600V
design of fuse holder nor	n-fusible
operating class of the fuse link nor	n-fusible
Enclosure	
degree of protection NEMA rating of the enclosure NE	MA Type 12
design of the housing dus	stproof and drip-proof for indoor use
Mounting/wiring	
mounting position Ve	rtical
fastening method Su	rface mounting and installation
type of electrical connection for supply voltage line-side Bo	x lug
tightening torque [lbf-in] for supply 35	35 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	(14 2 AWG)
temperature of the conductor for supply maximum permissible 75	°C
material of the conductor for supply AL	or CU
type of electrical connection for load-side outgoing feeder Bo	x lug
tightening torque [lbf-in] for load-side outgoing feeder 45	45 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	(14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible 75	°C
	or CU
material of the conductor for load-side outgoing feeder AL	rew-type terminals
<u> </u>	
type of electrical connection of magnet coil Sc	12 lbf·in
type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  5	12 lbf·in (16 12 AWG)
type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for	(16 12 AWG)
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  temperature of the conductor at magnet coil maximum  75	(16 12 AWG) °C

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

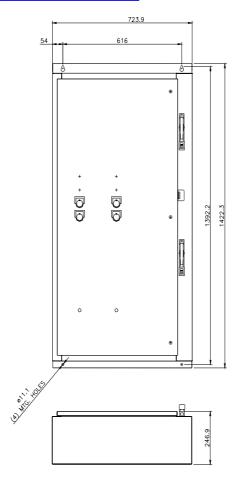
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84FUF950DL

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84FUF950DL

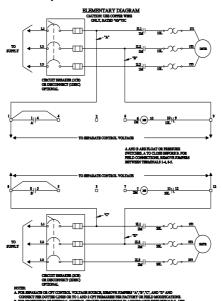
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84FUF950DL&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84FUF950DL&lang=en</a>

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:84FUF950DL/certificate



## SCHEMATIC DIAGRAM

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



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last modified: 1/25/2022 🖸