## **SIEMENS**

Data sheet US2:83HUG950G



Duplex starter w/o alternator, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 190-220/220-240V 50/60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

product brand name	Class 83	
design of the product	Duplex controller without alternator	
special product feature	ESP200 overload relay	
General technical data		
weight [lb]	93 lb	
Height x Width x Depth [in]	29 × 23 × 9 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		
• at 200/208 V rated value	25 hp	
• at 220/230 V rated value	30 hp	
• at 460/480 V rated value	50 hp	
<ul><li>at 575/600 V rated value</li></ul>	50 hp	
Contactor		
size of contactor	NEMA controller size 3	
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	90 A	
mechanical service life (operating cycles) of the main contacts typical	5000000	
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		
<ul> <li>at DC rated value</li> </ul>	0 0 V	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	190 220 V	
at AC at 60 Hz rated value	220 240 V	
holding power at AC minimum	14 W	

apparent pick up newer of recens t cell at A.C.	210.1/4
apparent holding power of magnet coil at AC	310 VA
apparent holding power of magnet coil at AC	26 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	26 41 ms
OFF-delay time	14 19 ms
Overload relay	
product function	
overload protection	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
asymmetry detection	Yes
ground fault detection	Yes
• test function	Yes
• external reset	Yes
reset function	Manual, automatic and remote
adjustable current response value current of the current- dependent overload release	25 100 A
tripping time at phase-loss maximum	3 \$
relative repeat accuracy	1 %
product feature protective coating on printed-circuit board	Yes 1
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
• at DC at 250 V	1A
contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 1A@250VDC (R300)
UL insulation voltage (Lii)	
insulation voltage (Ui)	600 V
<ul> <li>with single-phase operation at AC rated value</li> </ul>	000 1
	300 V
with multi-phase operation at AC rated value	300 V
with multi-phase operation at AC rated value     Enclosure	
with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure	NEMA 12 enclosure
with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing	
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with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring	NEMA 12 enclosure dustproof and drip-proof for indoor use
with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Mounting/wiring     mounting position	NEMA 12 enclosure dustproof and drip-proof for indoor use  Vertical
with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Mounting/wiring mounting position fastening method	NEMA 12 enclosure dustproof and drip-proof for indoor use  Vertical Surface mounting and installation
with multi-phase operation at AC rated value  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 12 enclosure dustproof and drip-proof for indoor use  Vertical Surface mounting and installation Box lug
with multi-phase operation at AC rated value  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 12 enclosure dustproof and drip-proof for indoor use  Vertical Surface mounting and installation Box lug 120 120 lbf·in
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CU
Screw-type terminals
7 10 lbf-in
2x (20 14 AWG)
75 °C
CU
10kA@600V (Class H or K); 100kA@600V (Class R or J)
Thermal magnetic circuit breaker
14 kA
14 kA 10 kA
10 kA

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=US2:83HUG950G

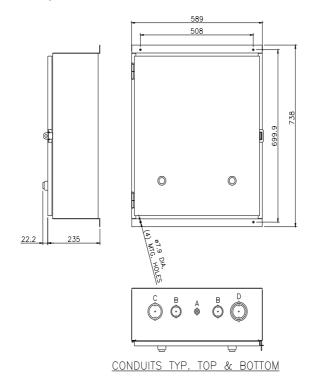
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:83HUG950G

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=US2:83HUG950G&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83HUG950G&lang=en</a>

Certificates/approvals

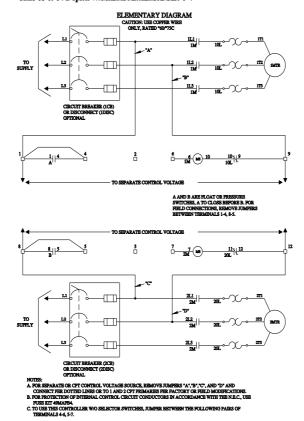
https://support.industry.siemens.com/cs/US/en/ps/US2:83HUG950G/certificate



LETTER	CONDUIT SIZE	
Α	ø12.7 & ø19 DIA. CONDUIT	
В	ø31.8 & ø38.1 DIA. CONDUIT	
С	ø50.8 & ø63.5 DIA. CONDUIT	
D	ø50.8, ø63.5 & ø76.2 DIA. CONDUIT	

## SCHEMATIC DIAGRAM

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



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