## SIEMENS

## Data sheet

## US2:83JUH950G



Duplex starter w/o alternator, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 190-220/220-240V 50/60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

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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]			
<ul> <li>during storage</li> </ul>	-22 +149 °F		
<ul> <li>during operation</li> </ul>	-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	40 hp		
• at 220/230 V rated value	50 hp		
• at 460/480 V rated value	100 hp		
• at 575/600 V rated value	100 hp		
Contactor			
size of contactor	NEMA controller size 4		
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	135 A		
mechanical service life (switching cycles) of the main contacts typical	500000		
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			

	0 0)/		
at DC rated value	0 0 V		
at AC at 50 Hz rated value	190 220 V		
at AC at 60 Hz rated value	220 240 V		
holding power at AC minimum	22 W		
apparent pick-up power of magnet coil at AC	510 VA		
apparent holding power of magnet coil at AC	51 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	18 34 ms		
OFF-delay time	10 12 ms		
Overload relay			
product function			
<ul> <li>overload protection</li> </ul>	Yes		
<ul> <li>phase failure detection</li> </ul>	Yes		
<ul> <li>asymmetry detection</li> </ul>	Yes		
<ul> <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- dependent overload release	50 200 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	1A		
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		
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V		
Enclosure			
degree of protection NEMA rating of the enclosure	NEMA 12 enclosure		
design of the housing	dustproof and drip-proof for indoor use		
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Mounting/wiring			
mounting position	Vertical		
fastening method	Surface mounting and installation		
type of electrical connection for supply voltage line-side	Box lug		
tightening torque [lbf·in] for supply	200 200 lbf-in		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (6 AWG 250 MCM)		
temperature of the conductor for supply maximum permissible	75 °C		
material of the conductor for supply	CU		
type of electrical connection for load-side outgoing feeder	Box lug		
tightening torque [lbf·in] for load-side outgoing feeder	200 200 lbf·in		
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (6 AWG 250 MCM)		
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C		
material of the conductor for load-side outgoing feeder	CU		
type of electrical connection of magnet coil	Screw-type terminals		
tightening torque [lbf·in] at magnet coil	5 12 lbf·in		
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 AWG)		

temperature of the conductor at magnet coil maximum permissible	75 °C			
material of the conductor at magnet coil	CU			
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 at 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 at 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			
breaking capacity maximum short-circuit current (Icu)				
• at 240 V	10 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				
Industrial Controls - Product Overview (Catalogs, Broch	ures,)			
www.usa.siemens.com/iccatalog				
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product				
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/US/en/ps/US2:83JU	<u>H950G</u>			
	s, 3D models, device circuit diagrams, EPLAN macros,)			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf	b=US2:83JUH950G⟨=en			

https://support.industry.siemens.com/cs/US/en/ps/US2:83JUH950G/certificate

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