## **SIEMENS**

Data sheet US2:83JUH950D



Duplex starter w/o alternator, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 208VAC 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	
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	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 (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>	0 0 V
at AC at 60 Hz rated value	208 208 V
holding power at AC minimum	22 W

apparent pick up never of recent as it at A.C.	E40.VA
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	510 VA 51 VA
operating range factor control supply voltage rated value of	0.85 1.1
magnet coil  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	10 12 110
product function	
overload protection	Yes
phase failure detection	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	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	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
	300 V
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	
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
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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	10 kA
	40.14
• at 480 V	10 kA
• at 480 V • at 600 V	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=US2:83JUH950D

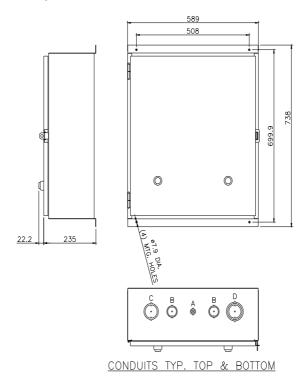
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:83JUH950D

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=US2:83JUH950D&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83JUH950D&lang=en</a>

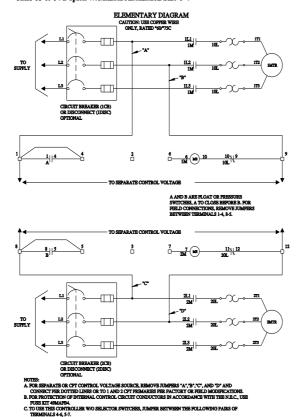
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83JUH950D/certificate



## SCHEMATIC DIAGRAM

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



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