## **SIEMENS**

Data sheet US2:83JUH95BJ



Duplex starter w/o alternator, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 24VAC 50-60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

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	
<ul> <li>during operation</li> </ul>	-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		
at DC rated value	0 0 V	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	24 24 V	
at AC at 60 Hz rated value	24 24 V	
holding power at AC minimum	22 W	

apparent pick up neuror of recent to all at AC	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	50 %
voltage ON-delay time	18 34 ms
OFF-delay time	10 12 ms
Overload relay	10 12 1113
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
0 - 1	
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 1 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 1 enclosure indoors, usable on a general basis
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 1 enclosure indoors, usable on a general basis  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 1 enclosure indoors, usable on a general basis  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 1 enclosure indoors, usable on a general basis  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 1 enclosure indoors, usable on a general basis  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
	memai magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	mema magnetic circuit breaker
	10 kA
maximum short-circuit current breaking capacity (Icu)	
maximum short-circuit current breaking capacity (Icu)  • at 240 V	10 kA
maximum short-circuit current breaking capacity (Icu)  • at 240 V  • at 480 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=US2:83JUH95BJ

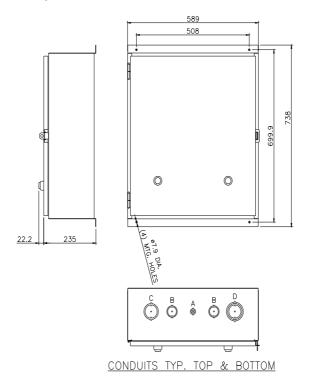
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:83JUH95BJ

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=US2:83JUH95BJ&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:83JUH95BJ&lang=en</a>

Certificates/approvals

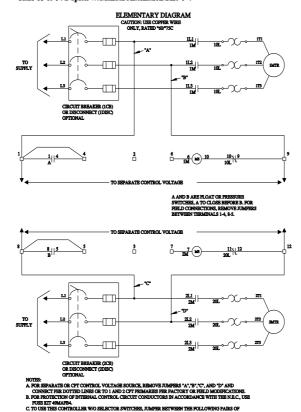
https://support.industry.siemens.com/cs/US/en/ps/US2:83JUH95BJ/certificate



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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