## **SIEMENS**

Data sheet US2:84JUH95EDH



Duplex starter w/o alternator Size 4 Three phase full voltage Solid-state overload relay OLR amp range 50-200A Combination type Two 200A disconnect switches Encl NEMA type 4 painted steel 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]	106 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]		
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		
<ul><li>at 200/208 V rated value</li></ul>	40 hp	
• at 220/230 V rated value	50 hp	
• at 460/480 V rated value	100 hp	
<ul><li>at 575/600 V rated value</li></ul>	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>	380 440 V	
at AC at 60 Hz rated value	440 480 V	
holding power at AC minimum	22 W	

annarent nick-up nower of magnet coil at AC	510 VA
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	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 1115
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
trip class	CLASS 5 / 10 / 20 (factory set) / 30
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 %
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
Disconnect Switch	
Disconnect Switch response value of switch disconnector	200A / 600V
Disconnect Switch response value of switch disconnector design of fuse holder	200A / 600V non-fusible
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link	200A / 600V
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	200A / 600V non-fusible non-fusible
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure	200A / 600V non-fusible non-fusible NEMA Type 4
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing	200A / 600V non-fusible non-fusible
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof
Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof
Pisconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof  Vertical Surface mounting and installation
response value of switch disconnector design of fuse holder operating class of the fuse link  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	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof
Pisconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug
response value of switch disconnector design of fuse holder operating class of the fuse link  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	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 275 275 lbf-in
response value of switch disconnector design of fuse holder operating class of the fuse link  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 AWG cables single or multi-stranded	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil)
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response value of switch disconnector design of fuse holder operating class of the fuse link  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 AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for	200A / 600V non-fusible non-fusible  NEMA Type 4 dustproof, waterproof & weatherproof  Vertical Surface mounting and installation Box lug 275 275 lbf-in 1x (6 AWG 300 Kcmil)  75 °C AL or CU Box lug 200 200 lbf-in 1x (6 AWG 250 MCM)  75 °C  CU Screw-type terminals 5 12 lbf-in
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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

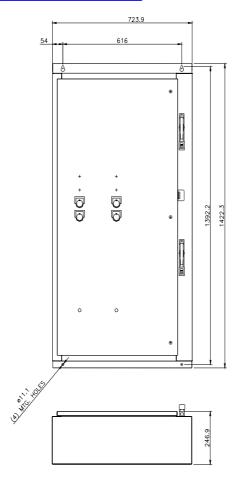
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84JUH95EDH

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95EDH

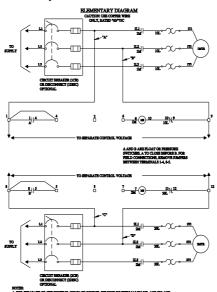
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Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95EDH/certificate



## SCHEMATIC DIAGRAM

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



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