# **SIEMENS**

## Data sheet

## US2:84IUH95BDL

Duplex starter W/O alternator Size 3.5 Three phase full voltage Solidstate overload relay OLRelay amp range 50-200A 240VAC 50HZ / 277VAC 60HZ coil Combination type Two 200A disconnect switches Enclosure NEMA type 1 Indoor general purpose use



#### Figure similar

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; Half-size controller
General technical data	
Weight [lb]	106 lb
Height x Width x Depth [in]	56 × 29 × 10 in
Protection against electrical shock	NA for enclosed products
Installation altitude [ft] at height above sea level	6560 ft
maximum	
Ambient temperature [°F]	
<ul> <li>during storage maximum</li> </ul>	149 °F
<ul> <li>during operation maximum</li> </ul>	104 °F
Ambient temperature	
<ul> <li>during storage maximum</li> </ul>	65 °C
<ul> <li>during operation maximum</li> </ul>	40 °C
Country of origin	USA

30 hp
40 hp
75 hp
75 hp
-

Size of contactor	Controller half size 3 1/2
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60	600 V
Hz maximum	
Operating current at AC at 600 V rated value	115 A
Mechanical service life (switching cycles) of the main	500000
contacts typical	
Auxiliary contact	
Number of NC contacts at contactor for auxiliary	0
contacts	Ŭ
Number of NO contacts at contactor for auxiliary	1
contacts	
Number of total auxiliary contacts maximum	7
Contact rating of auxiliary contacts of contactor	10A@600VAC (A600), 5A@600VDC (P600)
Contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
<b>-</b>	10A@600VAC (A600), 5A@600VDC (P600)
according to UL	10A@600VAC (A600), 5A@600VDC (P600) AC
according to UL	
according to UL Coil Type of voltage of the control supply voltage	
according to UL Coil Type of voltage of the control supply voltage Control supply voltage	AC
according to UL Coil Type of voltage of the control supply voltage Control supply voltage • at DC rated value	AC 00V
according to UL  Coil  Type of voltage of the control supply voltage  Control supply voltage  • at DC rated value  • at AC at 50 Hz rated value	AC 0 0 V 240 240 V
according to UL  Coil  Type of voltage of the control supply voltage  Control supply voltage  • at DC rated value  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value	AC 0 0 V 240 240 V 277 277 V
according to UL  Coil  Type of voltage of the control supply voltage  Control supply voltage  • at DC rated value  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Holding power at AC minimum	AC 0 0 V 240 240 V 277 277 V 14 W

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 %
Switch-on delay time	26 41 ms
Off-delay time	14 19 ms

Overload relay	
Product function	
<ul> <li>Overload protection</li> </ul>	Yes
<ul> <li>Phase failure detection</li> </ul>	Yes

Phase unbalance	Yes
	Yes
Ground fault detection	
Test function	Yes
External reset	Yes
Reset function	Manual, automatic and remote
Trip class	Class 5 / 10 / 20 (factory set) / 30
Adjustable pick-up value current of the current- dependent overload release	50 200 A
Trip 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
Operating 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	
<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
Disconnect Switch	
Rated response values of switch disconnector	200A / 600V
Design of fuse holder	non-fusible
Operating class of the fuse link	non-fusible
Enclosure	
Degree of protection NEMA rating of the enclosure	NEMA Type 1
Design of the housing	
	Indoor general purpose use
Mounting/wiring	
	Vertical
Mounting/wiring	
Mounting/wiring Mounting position	Vertical
Mounting/wiring         Mounting position         Mounting type         Type of electrical connection for supply voltage line-	Vertical Surface mounting and installation
Mounting/wiring         Mounting position         Mounting type         Type of electrical connection for supply voltage line-side	Vertical Surface mounting and installation Box lug
Mounting/wiring         Mounting position         Mounting type         Type of electrical connection for supply voltage line- side         Tightening torque [lbf-in] for supply         Type of connectable conductor cross-sections at line-	Vertical Surface mounting and installation Box lug 275 275 lbf·in
Mounting/wiring         Mounting position         Mounting type         Type of electrical connection for supply voltage line- side         Tightening torque [lbf-in] for supply         Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded         Temperature of the conductor for supply maximum	Vertical Surface mounting and installation Box lug 275 275 lbf·in 1x (6 AWG 300 Kcmil)

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Tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	1x (14 2/0 AWG)
Temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder	AL or 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 conductors 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 conductors 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 conductors for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
Temperature of the conductor at overload relay for	75 °C
auxiliary contacts maximum permissible	
Material of the conductor at overload relay for	CU
auxiliary contacts	
Short-circuit current rating	
Design of the fuse link for short-circuit protection of	10kA@600V (Class H or K); 100kA@600V (Class R or J)
the main circuit required	
Certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

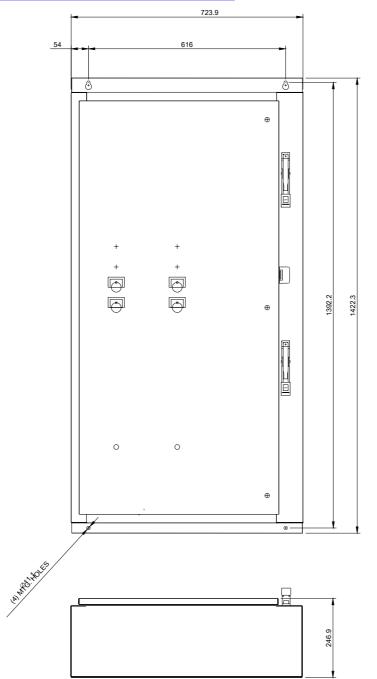
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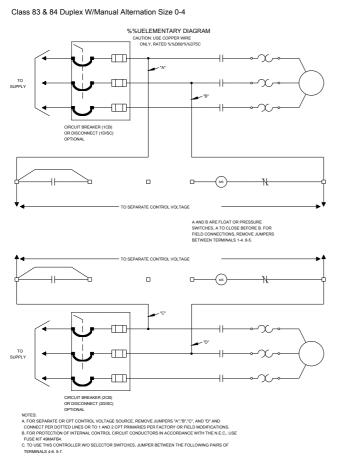
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#### Certificates/approvals

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