SIEMENS

Data sheet US2:84IUH95BDG

SIEMENS

state overload relay OLRelay amp range 50-200A Combination type Two 200A disconnect switches Enclosure NEMA type 1 Indoor general purpose use

Duplex starter W/O alternator Size 3.5 Three phase full voltage Solid-

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 maximum	6560 ft
Ambient temperature [°F]	
during storage maximum	149 °F
 during operation maximum 	104 °F
Ambient temperature	
during storage maximum	65 °C
 during operation maximum 	40 °C
Country of origin	USA

Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
● at 200/208 V rated value	30 hp
● at 220/230 V rated value	40 hp
● at 460/480 V rated value	75 hp
● at 575/600 V rated value	75 hp
Contactor	
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	5000000
contacts typical	
Auxiliary contact	
Number of NC contacts at contactor for auxiliary	0
contacts	
Number of NO contacts at contactor for auxiliary	1
Number of total qualitary contacts maximum	7
Number of total auxiliary contacts maximum	
Contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
according to OL	
Coil	
Type of voltage of the control supply voltage	AC
Control supply voltage	
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	14 W
Apparent pick-up power of magnet coil at AC	310 V·A
Apparent holding power of magnet coil at AC	26 V·A
Operating range factor control supply voltage rated	0.85 1.1
value of magnet coil	
Percental drop-out voltage of magnet coil related to	50 %
the input voltage Switch-on delay time	26 41 ms
Switch-on delay time	20 41 1115

U	vei	ioau	relay

Off-delay time

Product function

- Overload protection
- Phase failure detection

14 ... 19 ms

Yes

Phase unbalance	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 pick-up value current of the current-	50 200 A
dependent overload release	
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	
 with single-phase operation at AC rated value 	600 V
with multi-phase operation at AC rated value	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	
Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage lineside	Box lug
Tightening torque [lbf·in] for supply	275 275 lbf·in
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (6 AWG 300 Kcmil)
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	AL or CU
Type of electrical connection for load-side outgoing feeder	Box lug

120 120 lbf·in
1x (14 2/0 AWG)
75 °C
AL or CU
Screw-type terminals
5 12 lbf·in
2x (16 12 AWG)
75 °C
CU
Screw-type terminals
10 15 lbf·in
1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
75 °C
CU
Screw-type terminals
7 10 lbf·in
2x (20 14 AWG)
75 °C
CU
10kA@600V (Class H or K); 100kA@600V (Class R or J)

Further information

Certificate of suitability

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

NEMA ICS 2; UL 508; CSA 22.2, No.14

Industry Mall (Online ordering system)

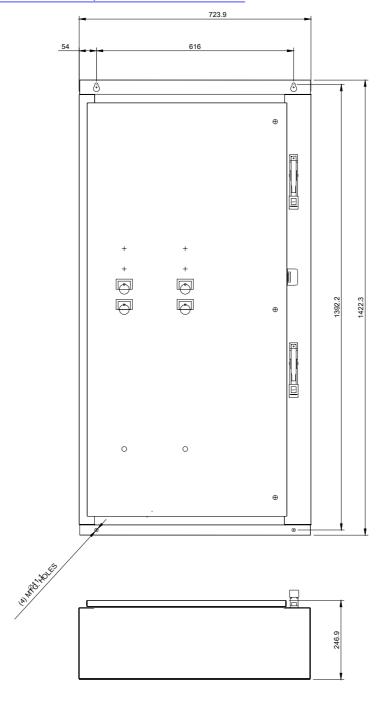
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84IUH95BDG

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BDG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84IUH95BDG&lang=en

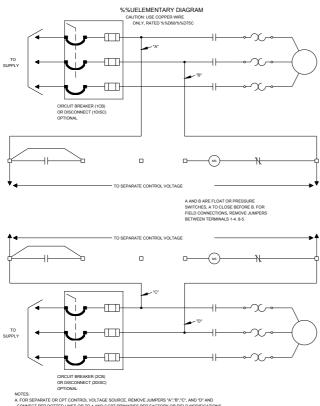
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BDG/certificate



%%USCHEMATIC DIAGRAM

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



- CONNECT PER DOTTED LINES OR TO 1 AND 2 CPT PRIMARIES PER FACTORY OR FIELD MODIFICATIONS. B. FOR PROTECTION OF INTERNAL CONTROL CIRCUIT CONDUCTORS IN ACCORDANCE WITH THE N.E.C., USE
- C. TO USE THIS CONTROLLER W/O SELECTOR SWITCHES, JUMPER BETWEEN THE FOLLOWING PAIRS OF

D68077003

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