SIEMENS

Data sheet US2:84CUB92WDF



Duplex starter with alternator Size 0 Three phase full voltage Solid-state overload relay OLR amp range 0.75-3.4A 110VAC 50Hz / 120VAC 60Hz Coil Combination type Two 30A disconnect switches Encl NEMA type 4X 304 S. Steel Water/dust tight non-corrosive

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches with alternator
special product feature	ESP200 overload relay
General technical data	
weight [lb]	70 lb
Height x Width x Depth [in]	34 × 25 × 8 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	0.5 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value	1.5 hp
• at 575/600 V rated value	2 hp
Contactor	
size of contactor	NEMA controller size 0
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	18 A
mechanical service life (operating cycles) of the main contacts typical	10000000
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	8
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
 at AC at 50 Hz rated value 	110 110 V
at AC at 60 Hz rated value	120 120 V
holding power at AC minimum	8.6 W

apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OVerload relay product function overload protection product function operating range factor control supply voltage rated value of magnet coil related to the input voltage ON-delay time 19 29 ms Overload relay product function operating range factor control supply voltage rated value of magnet coil related to the input voltage 10 24 ms Overload relay product function operating range factor control supply voltage rated value of magnet coil at AC 25 VA 0.85 1.1 So W Ves Overload relay product function operating range factor control supply voltage rated value of magnet coil at AC 25 VA 0.85 1.1 supplied to the input voltage of magnet coil related to the input voltage of magnet coil related value of magnet voltage magnet coil related value of magnet voltage mag	
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trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-	
adjustable current response value current of the current-	
dependent overload release	
tripping time at phase-loss maximum 3 s	
relative repeat accuracy 1 %	
number of NC contacts of auxiliary contacts of overload relay	
number of NO contacts of auxiliary contacts of overload relay	
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)	
with single-phase operation at AC rated value 600 V	
with multi-phase operation at AC rated value 300 V	
Disconnect Switch	
response value of switch disconnector 30A / 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 4x 304 stainless steel enclosure	
design of the housing dustproof, waterproof & resistant to corrosion	
Mounting/wiring	
mounting position Vertical	
fastening method Surface mounting and installation	
type of electrical connection for supply voltage line-side Box lug	
tightening torque [lbf-in] for supply 35 35 lbf-in	
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	
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 Screw-type terminals	
tightening torque [lbf·in] for load-side outgoing feeder 20 24 lbf·in	
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 75 °C	
material of the conductor for load-side outgoing feeder CU	
type of electrical connection of magnet coil Screw-type terminals	
type of electrical connection of magnet coil Screw-type terminals tightening torque [lbf-in] at magnet coil 5 12 lbf-in	
tightening torque [lbf-in] at magnet coil 5 12 lbf-in type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)	
tightening torque [lbf-in] at magnet coil 5 12 lbf-in type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum 75 °C	

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=US2:84CUB92WDF

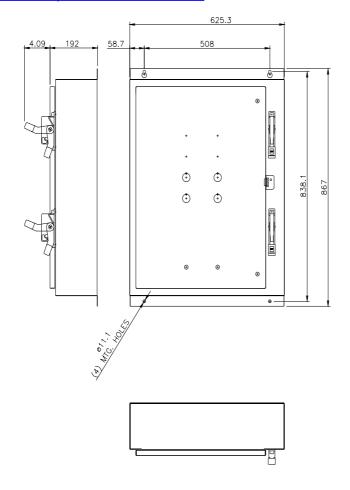
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUB92WDF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84CUB92WDF&lang=en

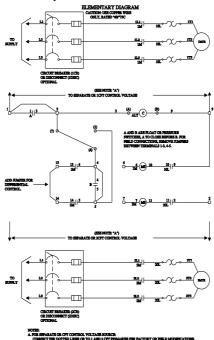
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUB92WDF/certificate



SCHEMATIC DIAGRAM

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



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