## **SIEMENS**

Data sheet US2:84CUA95EMH



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 380-440/440-480V 50/60Hz coil, Combination type, Two 3A circuit breakers, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

product brand name	Class 84
design of the product	Duplex controller with two MCPs without 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
<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	0.17 hp
• at 220/230 V rated value	0.17 hp
• at 460/480 V rated value	0.33 hp
<ul> <li>at 575/600 V rated value</li> </ul>	0.5 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
<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	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  OFF-delay time  Overload relay  product function  overload protection  pagnet coil at AC  25 VA  0.85 1.1  50 %  voltage  19 29 ms  10 24 ms  Overload relay  product function  overload protection  yes  yes	
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 OFF-delay time 19 29 ms OFF-delay time 10 24 ms Overload relay product function • overload protection  • overload protection  • overload protection	
magnet coil  percental drop-out voltage of magnet coil related to the input voltage  ON-delay time  OFF-delay time  19 29 ms  Overload relay  product function  • overload protection  Yes	
voltage  ON-delay time  19 29 ms  OFF-delay time  10 24 ms  Overload relay  product function  • overload protection  Yes	
OFF-delay time 10 24 ms  Overload relay  product function  • overload protection Yes	
Overload relay  product function  • overload protection  Yes	
product function	
overload protection  Yes	
phase failure detection     Yes	
asymmetry detection     Yes	
• ground fault detection Yes	
• test function Yes	
• external reset	
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  0.25 1 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	
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     with multi-phase operation at AC rated value     300 V	
Enclosure	_
degree of protection NEMA rating of the enclosure  NEMA Type 4	
design of the housing  dustproof, waterproof & weatherproof	
Circuit Breaker	_
type of the motor protection  Motor circuit protector (magnetic trip only)	
operational current of motor circuit breaker rated value 3 A	
adjustable current response value current of instantaneous short-circuit trip unit	
Mounting/wiring V. C.	
mounting position Vertical	
fastening method Surface mounting and installation	
type of electrical connection for supply voltage line-side  Box lug  type of connectable conductor cross-sections at line-side for  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)	
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	
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 permissible	
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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 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 short-circuit trip	Instantaneous trip circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84CUA95EMH

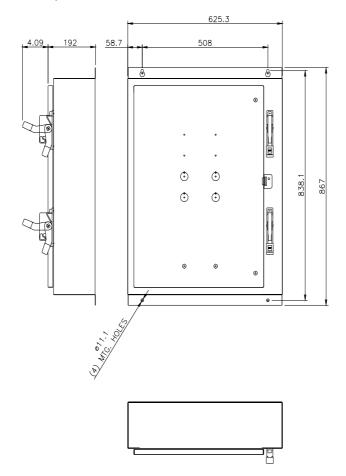
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95EMH

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=US2:84CUA95EMH&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84CUA95EMH&lang=en</a>

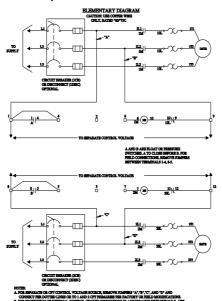
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95EMH/certificate



## SCHEMATIC DIAGRAM

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



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