## SIEMENS

## Data sheet

## US2:84CUA92BMF



Duplex starter w/ alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 3A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use

product brand name	Class 84
design of the product	Duplex controller with two MCPs 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	0.17 hp
• at 220/230 V rated value	0.17 hp
<ul> <li>at 460/480 V rated value</li> </ul>	0.33 hp
• at 575/600 V rated value	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	1000000
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

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apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA
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 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	Yes
<ul> <li>ground fault detection</li> </ul>	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	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	1A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
	600 V/
• with single-phase operation at AC rated value	600 V 300 V
<ul><li>with single-phase operation at AC rated value</li><li>with multi-phase operation at AC rated value</li></ul>	600 V 300 V
with single-phase operation at AC rated value     with multi-phase operation at AC rated value Enclosure	300 V
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure	300 V NEMA Type 1
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing	300 V
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker	300 V NEMA Type 1 indoors, usable on a general basis
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only)
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous	300 V NEMA Type 1 indoors, usable on a general basis
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous     short-circuit trip unit	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous     short-circuit trip unit     Mounting/wiring     mounting position	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous     short-circuit trip unit     Mounting/wiring     mounting position     fastening method     type of connectable conductor cross-sections at line-side for     AWG cables single or multi-stranded     temperature of the conductor for supply maximum permissible	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous     short-circuit trip unit     Mounting/wiring     mounting position     fastening method     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 supply	300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage 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	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection 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	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf in         2x (14 10 AWG)
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in         2x (14 10 AWG)         75 °C
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of the conductor for load-side outgoing feeder type of load-side outgoing feeder type of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of the conductor for load-side outgoing feeder type of the co	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in         2x (14 10 AWG)         75 °C         CU
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible type of electrical connection for load-side outgoing feeder type of connectable conductor for supply type of electrical conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of lead-side outgoing feeder type of electrical connection for load-side outgoing feeder type of load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of lead-side outgoing feeder type of electrical connection for load-side outgoing feeder type of	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf in         2x (14 10 AWG)         75 °C         CU         Screw-type terminals
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with single-phase operation at AC rated value     with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     Circuit Breaker     type of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of instantaneous     short-circuit trip unit     Mounting/wiring     mounting position     fastening method     type of electrical connection for supply voltage line-side     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 cross-sections for AWG cables     for load-side outgoing feeder     type of connectable conductor cross-sections for AWG cables     for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     typ	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A         10 35 A         Vertical         Surface mounting and installation         Box lug         1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C         AL or CU         Screw-type terminals         20 24 lbf in         2x (14 10 AWG)         75 °C         CU         Screw-type terminals         5 12 lbf-in         2x (16 12 AWG)
with single-phase operation at AC rated value     with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of connectable 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	300 V         NEMA Type 1         indoors, usable on a general basis         Motor circuit protector (magnetic trip only)         3 A       10 35 A         Vertical         Surface mounting and installation         Box lug       1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)         75 °C       AL or CU         Screw-type terminals       20 24 lbf-in         2x (14 10 AWG)       75 °C         CU       Screw-type terminals         5 12 lbf-in       21 lbf-in

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
Instantaneous trip circuit breaker
100 kA
100 kA
25 kA
NEMA ICS 2; UL 508; CSA 22.2, No.14

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

www.usa.siemens.com/iccatalo

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84CUA92BMF

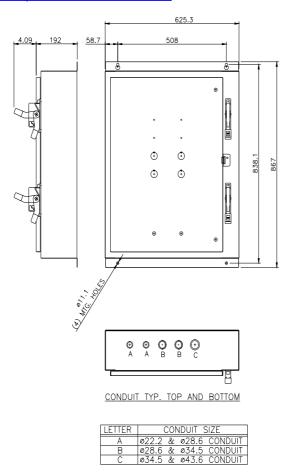
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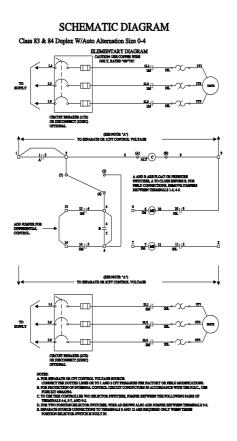
https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA92BMF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84CUA92BMF&lang=en

Certificates/approvals

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