## SIEMENS

## Data sheet

## US2:84EUE95WML



Duplex starter w/o alternator, Size 1 3/4, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 240V 50Hz / 277V 60Hz coil, Combination type, Two 40A circuit breakers, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

product brand name	Class 84
design of the product	Duplex controller with two MCPs without alternator
special product feature	ESP200 overload relay; Half-size controller
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 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	15 hp
• at 575/600 V rated value	15 hp
Contactor	
size of contactor	Controller half size 1 3/4
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	40 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	240 240 V
• at AC at 60 Hz rated value	277 277 V
holding power at AC minimum	8.6 W

	040 \/A
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	10 40 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)	
	200.14
<ul> <li>with single phase operation at A() rated value</li> </ul>	
<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 multi-phase operation at AC rated value	600 V 300 V
with multi-phase operation at AC rated value Enclosure	300 V
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure	300 V NEMA 4x 304 stainless steel enclosure
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing	300 V
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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
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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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A
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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A 115 375 A
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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A 115 375 A Vertical
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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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A 115 375 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG)
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 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A 115 375 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C
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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	300 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Motor circuit protector (magnetic trip only) 40 A 115 375 A Vertical Surface mounting and installation Box lug 1x (10 AWG 1/0 AWG) 75 °C AL or CU Screw-type terminals
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 4x 304 stainless steel enclosure         dustproof, waterproof & resistant to corrosion         Motor circuit protector (magnetic trip only)         40 A         115 375 A         Vertical         Surface mounting and installation         Box lug         1x (10 AWG 1/0 AWG)         75 °C         AL or CU         Screw-type terminals         45 45 lbf-in
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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/iccatalog

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84EUE95WML

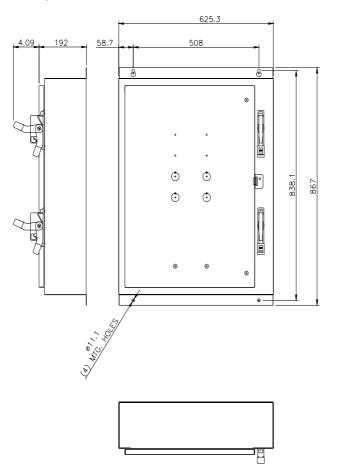
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WML

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84EUE95WML&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WML/certificate





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