SIEMENS

Data sheet

US2:84JUH95BMF



Duplex starter w/o alternator, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 150A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use

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]	106 lb	
Height x Width x Depth [in]	56 × 29 × 10 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	40 hp	
• at 220/230 V rated value	50 hp	
• at 460/480 V rated value	100 hp	
• at 575/600 V rated value	100 hp	
Contactor		
size of contactor	NEMA controller size 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	135 A	
mechanical service life (operating cycles) of the main contacts typical	500000	
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	7	
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	22 W	

	540.1/4
apparent pick-up power of magnet coil at AC	510 VA
apparent holding power of magnet coil at AC	51 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	18 34 ms
OFF-delay time	10 12 ms
Overload relay	
product function	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	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 current response value current of the current- dependent overload release	50 200 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 operational current of auxiliary contacts of overload relay	1
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)	
 with single-phase operation at AC rated value 	600 V
with multi-phase operation at AC rated value	300 V
Enclosure	
Enclosure degree of protection NEMA rating of the enclosure	NEMA Туре 1
Enclosure degree of protection NEMA rating of the enclosure design of the housing	
Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker	NEMA Type 1 indoors, usable on a general basis
Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only)
Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker	NEMA Type 1 indoors, usable on a general basis
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only)
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation Box lug
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
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	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
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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 for supply type of connectable conductor cross-sections for AWG cables 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 connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 200 200 lbf-in 1x (6 AWG 250 MCM) 75 °C CU Screw-type terminals 5 12 lbf-in
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 for supply type of connectable conductor cross-sections for AWG cables 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 connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for <	NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 150 A 800 1500 A Vertical Surface mounting and installation Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil) 75 °C AL or CU Box lug 200 200 lbf in 1x (6 AWG 250 MCM) 75 °C CU Screw-type terminals 5 12 lbf in 2x (16 12 AWG)

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,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84JUH95BME

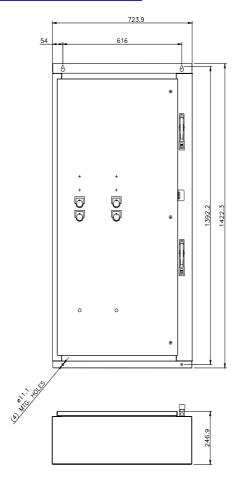
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95BMF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84JUH95BMF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84JUH95BMF/certificate





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