## SIEMENS

## Data sheet

## US2:84IUH95BMH



Duplex starter w/o alternator, Size 3 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 50-200A, 380-440/440-480V 50/60Hz coil, Combination type, Two 125A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use

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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]	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]				
<ul> <li>during storage</li> </ul>	-22 +149 °F			
<ul> <li>during operation</li> </ul>	-4 +104 °F			
ambient temperature				
<ul> <li>during storage</li> </ul>	-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	30 hp			
<ul> <li>at 220/230 V rated value</li> </ul>	40 hp			
<ul> <li>at 460/480 V rated value</li> </ul>	75 hp			
<ul> <li>at 575/600 V rated value</li> </ul>	75 hp			
Contactor				
size of contactor	Controller half size 3 1/2			
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	115 A			
mechanical service life (switching 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				

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at DC rated value	00V
at AC at 50 Hz rated value	380 440 V
at AC at 60 Hz rated value	440 480 V 14 W
holding power at AC minimum	
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	310 VA 26 VA
operating range factor control supply voltage rated value	0.85 1.1
of magnet coil	0.00 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	26 41 ms
OFF-delay time	14 19 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
<ul> <li>test function</li> </ul>	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	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)	
with single-phase operation at AC rated value	600 V
with multi-phase operation at AC rated value	300 V
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA Type 1
design of the housing	indoors, usable on a general basis
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	125 A
adjustable current response value current of instantaneous short-circuit trip unit	500 1250 A
Mounting/wiring	
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 at AWG cables single or multi-stranded	1x (10 AWG 1/0 AWG)
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	Box lug
tightening torque [lbf·in] for load-side outgoing feeder	120 120 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2/0 AWG)
temperature of the conductor for load-side outgoing feeder	75 °C

maximum permissible					
material of the conductor for load-side outgoing feeder	AL or 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 at AWG cables single or multi-stranded	2x (16 12 AWG)				
temperature of the conductor at magnet coil maximum permissible	75 °C				
material of the conductor at magnet coil	CU				
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 at 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 at 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				
breaking capacity maximum short-circuit current (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)	Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84IUH95BMH				
Service&Support (Manuals Certificates Characteristics FAQs )					

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BMH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84IUH95BMH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BMH/certificate

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