## SIEMENS

## Data sheet

## US2:84IUH95BML



Duplex starter w/o alternator, Size 3 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 50-200A, 240V 50Hz / 277V 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				
during operation	-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					
<ul> <li>at 200/208 V rated value</li> </ul>	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	240 240 V		
at AC at 60 Hz rated value	277 277 V 14 W		
holding power at AC minimum	310 VA		
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	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) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84IUH95BML				

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BML

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84IUH95BML&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84IUH95BML/certificate

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