SIEMENS

Data sheet US2:83EUE95BG



Duplex starter w/o alternator, Size 1 3/4, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 190-220/220-240V 50/60Hz coil, Noncombination type, Enclosure NEMA type 1, Indoor general purpose use

product brand name	Class 83	
design of the product	Duplex controller without alternator	
special product feature	Half-size controller; ESP200 overload relay	
General technical data		
weight [lb]	40 lb	
Height x Width x Depth [in]	20 × 16 × 6 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 	10 hp	
 at 220/230 V rated value 	10 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	10000000	
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	190 220 V	
at AC at 60 Hz rated value	220 240 V	
holding power at AC minimum	8.6 W	

CONTRACT DIGIT IN DOLLAR OF THE CONTRACT CO. C. C. C.	240 \/A
apparent holding 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	
 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
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	5.4
• at AC at 600 V	5 A
at DC at 250 V pontant rating of qualitary contacts of gyarlood relay according to	1 A
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 1 enclosure
degree of protection NEMA rating of the enclosure design of the housing	NEMA 1 enclosure indoors, usable on a general basis
degree of protection NEMA rating of the enclosure	
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degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring	indoors, usable on a general basis
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	indoors, usable on a general basis Vertical
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply	Vertical Surface mounting and installation Screw-type terminals 45 45 lbf·in
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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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	14 kA
■ at 240 V	14 KA
• at 480 V	10 kA
• at 480 V	10 kA

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=US2:83EUE95BG

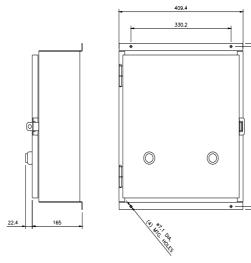
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

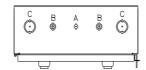
https://support.industry.siemens.com/cs/US/en/ps/US2:83EUE95BG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83EUE95BG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83EUE95BG/certificate



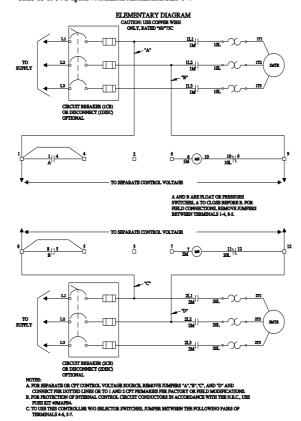


CONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
Α	ø12.7 DIA. CONDUIT
В	ø12.7 & ø19 DIA. CONDUIT
С	ø31.8 & ø38.1 DIA. CONDUIT

SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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