SIEMENS

Data sheet US2:83DUD95BH



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 380-440/440-480V 50/60Hz coil, Non-combination 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	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	3 hp
• at 220/230 V rated value	3 hp
• at 460/480 V rated value	10 hp
● at 575/600 V rated value	10 hp
Contactor	
size of contactor	NEMA controller size 1
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	27 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 	380 440 V
at AC at 60 Hz rated value	440 480 V
holding power at AC minimum	8.6 W

apparent pick up newer of magnet eath of A.O.	210 \/A
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC	218 VA 25 VA
operating range factor control supply voltage rated value of	0.85 1.1
magnet coil percental drop-out voltage of magnet coil related to the input	50 %
voltage ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	10 24 1113
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	5.5 22 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	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
with multi-phase operation at AC rated value Enclosure	300 V
	NEMA 1 enclosure
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 Mounting/wiring	NEMA 1 enclosure indoors, usable on a general basis
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position	NEMA 1 enclosure indoors, usable on a general basis Vertical
Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method	NEMA 1 enclosure indoors, usable on a general basis Vertical Surface mounting and installation
Enclosure 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	NEMA 1 enclosure indoors, usable on a general basis Vertical Surface mounting and installation Screw-type terminals
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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
	Thermal magnetic chock breaker
maximum short-circuit current breaking capacity (Icu)	The man magnetic should broaded
maximum short-circuit current breaking capacity (lcu) • at 240 V	14 kA
• at 240 V	14 kA
at 240 Vat 480 V	14 kA 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=US2:83DUD95BH

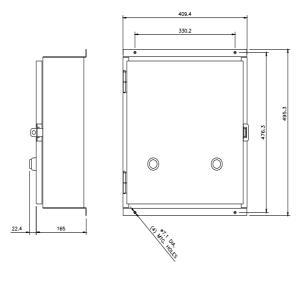
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

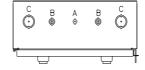
https://support.industry.siemens.com/cs/US/en/ps/US2:83DUD95BH

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83DUD95BH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83DUD95BH/certificate



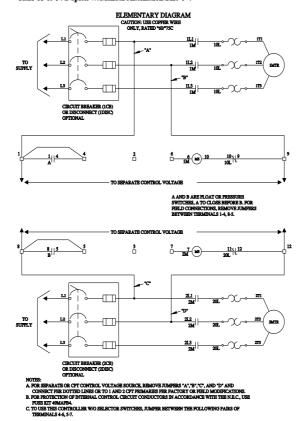


CONDUITS TYP. TOP & BOTTOM

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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