SIEMENS

Data sheet US2:84DUE95BMG



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 190-220/220-240V 50/60Hz coil, Combination type, Two 30A 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]	70 lb		
Height x Width x Depth [in]	34 × 25 × 8 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	7.5 hp		
• at 220/230 V rated value	7.5 hp		
• at 460/480 V rated value	0 hp		
 at 575/600 V rated value 	0 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 	190 220 V		
at AC at 60 Hz rated value	220 240 V		
holding power at AC minimum	8.6 W		

	040.1/4		
apparent pick-up 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		
trip class	CLASS 5 / 10 / 20 (factory set) / 30		
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			
• 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)			
modulation voltage (O.)			
with single-phase operation at AC rated value	600 V		
with single-phase operation at AC rated value with multi-phase operation at AC rated value	600 V 300 V		
with multi-phase operation at AC rated value	600 V 300 V		
with multi-phase operation at AC rated value Enclosure	300 V		
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure	300 V NEMA Type 1		
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing	300 V		
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker	NEMA Type 1 indoors, usable on a general basis		
with multi-phase operation at AC rated value 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)		
with multi-phase operation at AC rated value 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		
with multi-phase operation at AC rated value 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) 30 A		
with multi-phase operation at AC rated value 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) 30 A 80 270 A		
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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 (lcu)			
● 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,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUE95BMG

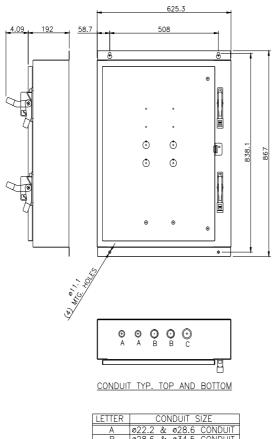
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUE95BMG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84DUE95BMG&lang=en

Certificates/approvals

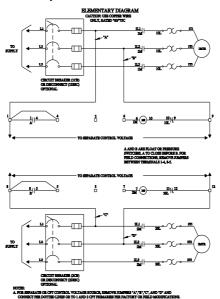
https://support.industry.siemens.com/cs/US/en/ps/US2:84DUE95BMG/certificate



LETTER	CONDUIT SIZE			
Α	ø22.2	&	ø28.6	CONDUIT
В	ø28.6	&	ø34.5	CONDUIT
C	ø34.5	&	ø43.6	CONDUIT

SCHEMATIC DIAGRAM

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



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