SIEMENS

Data sheet US2:84GUG95BDG



Duplex starter w/o alternator Size 2.5 Three phase full voltage Solid-state overload relay OLR amp range 25-100A Combination type Two 100A disconnect switches Enclosure NEMA type 1 Indoor general purpose use

Figure similar

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches without alternator
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	70 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]	
 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 	15 hp
at 220/230 V rated value	20 hp
at 460/480 V rated value	30 hp
at 575/600 V rated value	30 hp
Contactor	
size of contactor	Controller half size 2 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	60 A
mechanical service life (switching 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	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	
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
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 tool function	Yes
test function external reset	Yes
	Yes Manual automatic and remote
reset function	Manual, automatic and remote
trip class adjustable current response value current of the current-	CLASS 5 / 10 / 20 (factory set) / 30 25 100 A
dependent overload release	
tripping time at phase-loss maximum	3 \$
relative repeat accuracy	1 %
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 contact rating of auxiliary contacts of overload relay	1 A 5A@600VAC (B600), 1A@250VDC (R300)
according to UL insulation voltage (Ui)	-
<u> </u>	600 V
 with single-phase operation at AC rated value with multi-phase operation at AC rated value 	300 V
Disconnect Switch	000 V
response value of switch disconnector	100A / 600V
design of fuse holder	non-fusible
operating class of the fuse link	non-fusible
Enclosure	TION TOURING
	NEMA Type 1
degree of protection NEMA rating of the enclosure design of the housing	NEMA Type 1 indoors, usable on a general basis
<u> </u>	indoors, usable on a general basis
Mounting/wiring	Vertical
mounting position	Vertical Surface mounting and installation
type of electrical connection for supply voltage line side	Surface mounting and installation
type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply	Box lug 120 120 lbf·in
type of connectable conductor cross-sections at line-side	1x (14 1/0 AWG)
at AWG cables single or multi-stranded	
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	45 45 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2 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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
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=US2:84GUG95BDG

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95BDG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84GUG95BDG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95BDG/certificate

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