## **SIEMENS**

Data sheet US2:17GUG82BG15



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 100A fusible disconnect, 100A/600V fuse clip, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

Figure similar

product brand name	Class 17
design of the product	Non-reversing motor starter with fusible disconnect
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	78 lb
Height x Width x Depth [in]	36 × 24 × 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
<ul> <li>during operation</li> </ul>	-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	0 hp
• at 220/230 V rated value	0 hp
<ul> <li>at 460/480 V rated value</li> </ul>	30 hp
• at 575/600 V rated value	0 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	

and AC at 50 Hz rated value and AC at 50 Hz rated value blotling power at AC minimum apparent holding power of magnet coil at AC apparent holding power of apparent holding	-4.40 -4.50	400 000 V
bolding power at AC minimum   S. B. W   apparent power of magnet coil at AC   218 VA   apparent holding power of magnet coil at AC   25 VA   0.5	at AC at 50 Hz rated value	190 220 V
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with single-phase operation at AC rated value     with multi-phase operation at AC rated value    with multi-phase operation at AC rated value   300 V		
Note		600 V
response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor for supply  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor for supply  AL or CU  type of connectable conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C		
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degree of protection NEMA rating design of the housing    Indoors, usable on a general basis		
degree of protection NEMA rating design of the housing    Mounting/wiring		Olass IV
design of the housing    Mounting/wiring		1
Mounting/wiring       vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       120 120 lbf-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (14 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       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		
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fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  Surface mounting and installation  Box lug  1x (14 1/0 AWG)  AL or CU  Box lug  45 45 lbf·in  1x (14 2 AWG)  1x (14 2 AWG)		
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded temperature of the conductor for load-side outgoing feeder  75 °C  1x (14 1/0 AWG)  AL or CU  Box lug  1x (14 2 AWG)  1x (14 2 AWG)	<u> </u>	
tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C		-
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C		
at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C		
permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  AL or CU  Box lug  1x (14 2 AWG)  1x (14 2 AWG)		1x (14 1/0 AWG)
type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  Box lug  45 45 lbf·in  1x (14 2 AWG)  75 °C		75 °C
tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  75 °C	type of electrical connection for load-side outgoing feeder	Box lug
cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C	tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in
temperature of the conductor for load-side outgoing feeder 75 °C	cables for load-side outgoing feeder single or multi-	1x (14 2 AWG)
	temperature of the conductor for load-side outgoing feeder	75 °C

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 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=US2:17GUG82BG15

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

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82BG15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17GUG82BG15&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17GUG82BG15&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82BG15/certificate

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