SIEMENS

Data sheet

US2:17GUG82BH14



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/250V fuse clip, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

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
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	0 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 (operating cycles) of the main contacts typical	1000000
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 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 power of magnet coil at AC	218 VA

apparent holding power of magnet coil at AC	25 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of	25 VA 0.85 1.1
operating range factor control supply voltage rated value of magnet coil	0.00 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	25 100 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 1 A
• at DC at 250 V contact rating of auxiliary contacts of overload relay according to	1 A 54@600\/AC (B600) 14@250\/DC (B300)
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
Disconnect Quitch	
Disconnect Switch	
response value of switch disconnector	100A / 250V
response value of switch disconnector design of fuse holder	Class R fuse clips
response value of switch disconnector design of fuse holder operating class of the fuse link	
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure	Class R fuse clips Class R
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing	Class R fuse clips
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing Mounting/wiring	Class R fuse clips Class R indoors, usable on a general basis
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing Mounting/wiring mounting position	Class R fuse clips Class R indoors, usable on a general basis vertical
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing Mounting/wiring mounting position fastening method	Class R fuse clips Class R indoors, usable on a general basis vertical Surface mounting and installation
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Class R fuse clips Class R indoors, usable on a general basis vertical
response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure design of the housing Mounting/wiring mounting position fastening method	Class R fuse clips Class R indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in
response value of switch disconnector design of fuse holder operating class of the fuse link 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	Class R fuse clips Class R indoors, usable on a general basis vertical Surface mounting and installation Box lug
response value of switch disconnector design of fuse holder operating class of the fuse link 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 type of connectable conductor cross-sections at line-side for	Class R fuse clips Class R indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in
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Industrial Controls - Product Overview (Catalogs, Brochures	
Further information	
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
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)
Short-circuit current rating	
material of the conductor at overload relay for auxiliary contacts	CU
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
material of the conductor at contactor for auxiliary contacts	CU
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
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)
	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

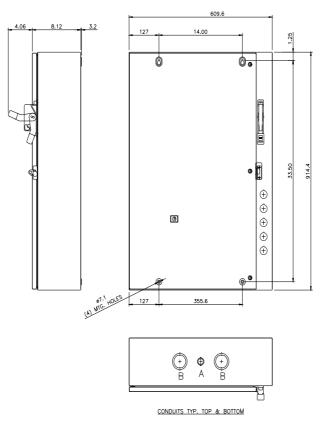
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82BH14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17GUG82BH14&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82BH14/certificate



LETTER	CONDUIT SIZE
A	012.7 & 019 CONDUIT
B	@31.8 & @38.1 CONDUIT



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1/25/2022 🖸

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