## SIEMENS

## Data sheet

## US2:17GUG82NC



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 100A non-fusible disconnect, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

	01 47.0.05
product brand name	Class 17 & 25
design of the product	Full-voltage non-reversing motor starter with non-fusible disconnect
special product feature	ESP200 overload relay; Half-size controller; Dual voltage coil
General technical data	
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]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
during operation	-20 +40 °C
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	15 hp
<ul> <li>at 220/230 V rated value</li> </ul>	20 hp
<ul> <li>at 460/480 V rated value</li> </ul>	30 hp
<ul> <li>at 575/600 V rated value</li> </ul>	30 hp
Contactor	
size of contactor	Controller half size 2 1/2
number of NO contacts for main contacts	3
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), 2.5A@300VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 60 Hz rated value	220 480 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
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	25 100 A
make time with automatic start after power failure 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	5
insulation voltage (Ui)	
with single-phase operation at AC rated value	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Disconnect Switch	
response value of switch disconnector	100
design of fuse holder	non-fusible
operating class of the fuse link	non-fusible
operating class of the fuse link Enclosure	non-fusible
	4
Enclosure	
Enclosure degree of protection NEMA rating design of the housing design of the housing	4
Enclosure degree of protection NEMA rating design of the housing	4 Extra-wide
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Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring	4 Extra-wide dustproof, waterproof & weatherproof
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position	4 Extra-wide dustproof, waterproof & weatherproof vertical
Enclosure degree of protection NEMA rating design of the housing 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	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in
Enclosure degree of protection NEMA rating design of the housing 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 temperature of the conductor for supply maximum permissible	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C
Enclosure degree of protection NEMA rating design of the housing 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 temperature of the conductor for supply maximum permissible material of the conductor for supply	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU
Enclosure degree of protection NEMA rating design of the housing 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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug
Enclosure degree of protection NEMA rating design of the housing 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 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	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 45 45 lbf-in
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Enclosure degree of protection NEMA rating design of the housing 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 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 for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 45 45 lbf-in 1
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Enclosure degree of protection NEMA rating design of the housing 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 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 for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         120 120 lbf-in         75 °C         AL or CU         Box lug         45 45 lbf-in         1         75 °C         AL or CU         Screw-type terminals         5 12 lbf-in
Enclosure degree of protection NEMA rating design of the housing 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 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 for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         120 120 lbf-in         75 °C         AL or CU         Box lug         45 45 lbf-in         1         75 °C         AL or CU         Screw-type terminals         5 12 lbf-in         2
Enclosure degree of protection NEMA rating design of the housing 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 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 for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet coil for	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 45 45 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2
Enclosure degree of protection NEMA rating design of the housing 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 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 for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil tightening torque [lbf-in] at magnet coil material of the conductor at magnet coil material of the conductor at magnet coil	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         120 120 lbf-in         75 °C         AL or CU         Box lug         45 45 lbf-in         1         75 °C         AL or CU         Screw-type terminals         5 12 lbf-in         2
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Enclosure degree of protection NEMA rating design of the housing 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 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 for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil tightening torque [lbf-in] at magnet coil material of the conductor at magnet coil material of the conductor at magnet coil	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 45 45 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2 75 °C
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 tightening torque [lbf-in] for supply temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder twperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of electrical connection of magnet coil type of the conductor at magnet coil type of electrical connection for auxiliary contacts	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 45 45 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2 75 °C CU Screw-type terminals
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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	2
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	10
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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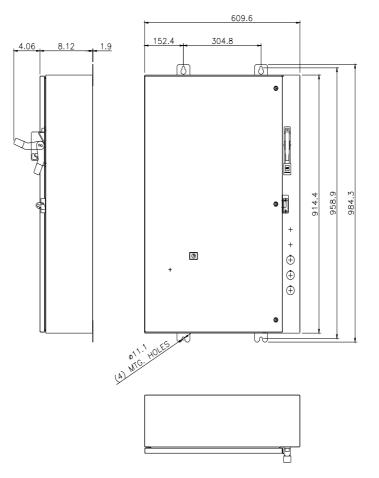
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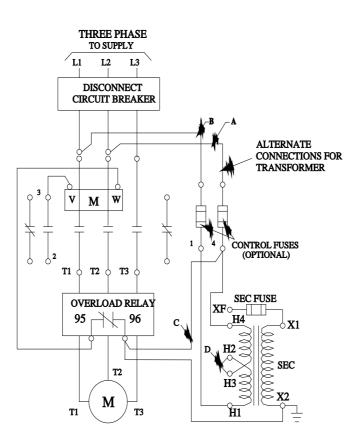
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