SIEMENS

Data sheet US2:17HUG82BC



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 100A non-fusible disconnect, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

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; 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]		
during storage	-22 +149 °F	
during operation	-4 +104 °F	
ambient temperature		
during storage	-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	20 hp	
• at 220/230 V rated value	25 hp	
• at 460/480 V rated value	50 hp	
• at 575/600 V rated value	50 hp	
Contactor		
size of contactor	NEMA controller size 3	
number of NO contacts for main contacts	3	
operational current at AC at 600 V rated value	90 A	
mechanical service life (operating cycles) of the main contacts typical	5000000	
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	14 W	
apparent pick-up power of magnet coil at AC	310 VA	
apparent holding power of magnet coil at AC	26 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	26 41 ms
OFF-delay time	14 19 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 Approximately approximate and available approximately approximate	1A
contact rating of auxiliary contacts of overload relay according to UL	5
insulation voltage (Ui)	C00 V
with single-phase operation at AC rated value with multi-phase operation at AC rated value	600 V
with multi-phase operation at AC rated value	300 V
Disconnect Switch	400
response value of switch disconnector	100
design of fuse holder operating class of the fuse link	non-fusible non-fusible
ODOLUMINA OLIGO OLI MIC 1990 IMIN	HOTE RUSIDIC
Enclosure	
Enclosure degree of protection NEMA rating	1 Extra-wide
Enclosure degree of protection NEMA rating design of the housing	1 Extra-wide
Enclosure degree of protection NEMA rating design of the housing design of the housing	1
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring	1 Extra-wide
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position	1 Extra-wide indoors, usable on a general basis vertical
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring	1 Extra-wide indoors, usable on a general basis
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position fastening method	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1
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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C
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 material of the conductor for load-side outgoing feeder	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C AL or CU
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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 material of the 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	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in
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 material of the 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 temperature of the conductor at magnet coil maximum	Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in
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 tightening torque [lbf-in] 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 material of the 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 temperature of the conductor at magnet coil maximum permissible	1 Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2
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 tightening torque [lbf-in] for load-side outgoing feeder type of electrical connection 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 material of the 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 temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2 75 °C CU
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 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 material of the 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 type of connectable conductor at magnet coil temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	Extra-wide indoors, usable on a general basis vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 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	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17HUG82BC}$

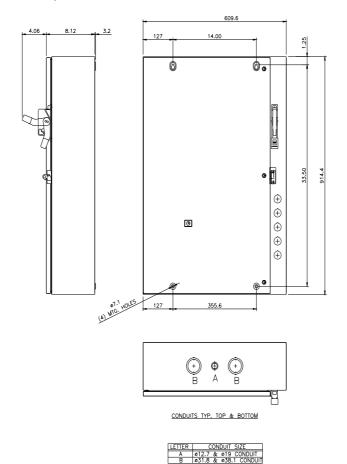
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82BC

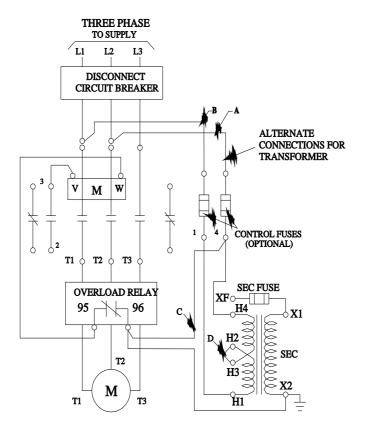
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG82BC&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82BC/certificate





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last modified: 12/3/2022 🖸