SIEMENS

Data sheet

US2:17HUG82NG15



Non-reversing motor starter, Size 3, 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 4/12, Water/dust tight for outdoors, 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
General technical data	
weight [lb]	81 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	0 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	5 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (operating cycles) of the main contacts typical	500000
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	190 220 V
 at AC at 60 Hz rated value 	220 240 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 Yes product function Yes • overload protection Yes • asymmetry detection Yes • ground fault detection Yes • est function Yes • external reset Yes • external reset Yes reset 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- 25 100 A dependent overload release 1% product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of ouxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay
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voltage Voltage ON-delay time 26 41 ms OFF-delay time 14 19 ms product function • overload protection • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset 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 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 NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 outret feature protective coating on printed-circuit board Yes number of NC contacts of auxil
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 with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V
• with multi-phase operation at AC rated value 300 V
response value of switch disconnector 100A / 600V
design of fuse holder Class R fuse clips operating class of the fuse link Class R
Enclosure
design of the housing dustproof, waterproof & weatherproof
Mounting/wiring
mounting position vertical
fastening method Surface mounting and installation
type of electrical connection for supply voltage line-side Box lug
tightening torque [lbf-in] for supply volage inte-side 120 120 lbf-in
type of connectable conductor cross-sections at line-side for 1x (14 1/0 AWG)
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 120 120 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2/0 AWG)
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder 75 °C
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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)
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 for 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=US2:17HUG82NG15

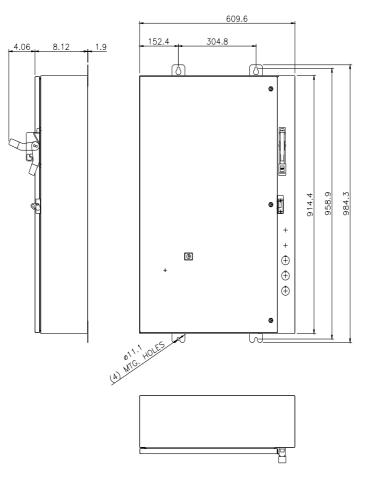
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

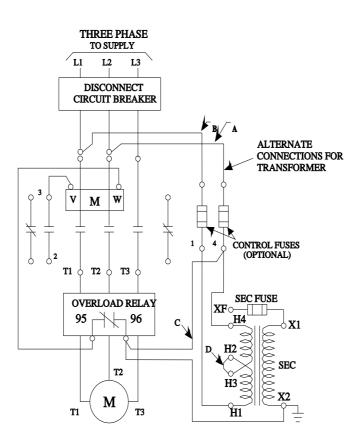
https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82NG15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG82NG15&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82NG15/certificate





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