## SIEMENS

## Data sheet

## US2:17HUG82NL



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 240V 50Hz / 277V 60Hz coil, Combination type, 100A non-fusible disconnect, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

Figur	esi	milar	

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
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
<ul> <li>during operation</li> </ul>	-20 +40 °C
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	20 hp
<ul> <li>at 220/230 V rated value</li> </ul>	25 hp
<ul> <li>at 460/480 V rated value</li> </ul>	50 hp
<ul> <li>at 575/600 V rated value</li> </ul>	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 (switching 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	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	240 V
• at AC at 60 Hz rated value	277 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA

apparent holding nower of merret or the AQ	26.1/4
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
<ul> <li>phase failure detection</li> </ul>	Yes
<ul> <li>asymmetry detection</li> </ul>	Yes
ground fault detection	Yes
test function	Yes
<ul> <li>external reset</li> </ul>	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	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	
insulation voltage (Ui)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Disconnect Switch	
response value of switch disconnector	100A / 600V
design of fuse holder	non-fusible
an another a large of the State 11 al	non fucible
operating class of the fuse link	non-fusible
operating class of the fuse link Enclosure	non-lusible
	4, 12
Enclosure	
Enclosure degree of protection NEMA rating	4, 12
Enclosure degree of protection NEMA rating design of the housing	4, 12 Extra-wide
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Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring	4, 12 Extra-wide dustproof, waterproof & weatherproof
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position	4, 12 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	4, 12 Extra-wide dustproof, waterproof & weatherproof 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	4, 12 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation 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	4, 12 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         material of the conductor for supply	4, 12 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 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 at AWG         cables for load-side outgoing feeder single or multi-         stranded         temperature of the conductor for load-side outgoing feeder	4, 12 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf·in 75 °C AL or CU Box lug 120 120 lbf·in 1x (14 2/0 AWG) 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         type of electrical connection 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 at 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	4, 12 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 120 120 lbf-in 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU
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coil at AWG cables single or multi-stranded			
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=US2:17HUG82NL Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82NL Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG82NL⟨=en			
Cortificates/approvals			

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG82NL/certificate

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