## SIEMENS

## Data sheet

## US2:17DUB82NS



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 24VDC coil, Combination type, 30A non-fusible disconnect, Enclosure NEMA type 4/12, Water/dust tight for outdoors, 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
General technical data	
Height x Width x Depth [in]	24 × 20 × 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
<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	0.5 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value	1.5 hp
• at 575/600 V rated value	2 hp
Contactor	
size of contactor	NEMA controller size 1
number of NO contacts for main contacts	3
operational current at AC at 600 V rated value	27 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	8
contact rating of auxiliary contacts of contactor according to UL	345VA@115VAC / 768VA@240VAC
Coil	
type of voltage of the control supply voltage	DC
control supply voltage	
at DC rated value	24 V
holding power at AC minimum	0 W
apparent pick-up power of magnet coil at AC	163 VA
apparent holding power of magnet coil at AC	5.5 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	25 %



ON-delay time	21 21 ms
OFF-delay time	11 11 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	0.75 3.4 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	1A
contact rating of auxiliary contacts of overload relay according to	5
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	30
design of fuse holder	non-fusible
operating class of the fuse link	non-fusible
operating class of the fuse link Enclosure	non-fusible
· · ·	non-fusible 4
Enclosure	
Enclosure degree of protection NEMA rating	4
Enclosure degree of protection NEMA rating design of the housing	4 Extra-wide
Enclosure degree of protection NEMA rating design of the housing design of the housing	4 Extra-wide
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
Enclosure degree of protection NEMA rating design of the housing design of the housing Mounting/wiring mounting position fastening method	4 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 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 type of connectable conductor cross-sections at line-side for	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 35 35 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         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 35 35 lbf-in 1
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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 35 35 lbf-in 1 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 35 35 lbf-in 1 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 35 35 lbf-in 1 75 °C AL or CU Screw-type terminals
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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1         75 °C         AL or CU         Screw-type terminals         20 24 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 temperature of the conductor for supply	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1         75 °C         AL or CU         Screw-type terminals         20 24 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 temperature of the conductor for supply type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in         2         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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 load-side outgoing feeder temperature of the conductor for 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         35 35 lbf-in         1         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in         2         75 °C         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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 electrical connection of magnet coil	4 Extra-wide dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf-in 1 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2 75 °C 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 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 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 type of connectable conductor at magnet coil maximum permissible	4 Extra-wide dustproof, waterproof & weatherproof vertical Surface mounting and installation Box lug 35 35 lbf in 1 75 °C AL or CU Screw-type terminals 20 24 lbf in 2 75 °C 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables 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 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 35 35 lbf-in 1 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2 75 °C CU Screw-type terminals 5 12 lbf-in 2 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables 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 at magnet coil type of electrical connection for auxiliary contacts	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         35 35 lbf in         1         75 °C         AL or CU         Screw-type terminals         20 24 lbf in         75 °C         CU         Screw-type terminals         5 12 lbf in         2         75 °C         CU         Screw-type terminals         5 12 lbf in         2         75 °C         CU         Screw-type terminals         5 12 lbf in         2         75 °C         CU         Screw-type terminals
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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible 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 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 temperature of the conductor at magnet coil type of connectable conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for	4 Extra-wide dustproof, waterproof & weatherproof Vertical Surface mounting and installation Box lug 35 35 lbf-in 1 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2 75 °C 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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material 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 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 at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts	4         Extra-wide         dustproof, waterproof & weatherproof         vertical         Surface mounting and installation         Box lug         35 35 lbf-in         1         75 °C         AL or CU         Screw-type terminals         20 24 lbf-in         2         75 °C         CU         Screw-type terminals         5 12 lbf-in         2         75 °C         CU         Screw-type terminals         5 12 lbf-in         2         75 °C         CU         Screw-type terminals         5 12 lbf-in         2         75 °C         CU         Screw-type terminals         10 15 lbf-in

maximum permissible	
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	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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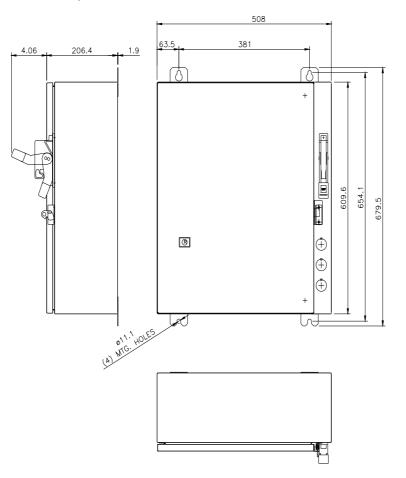
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