## SIEMENS

## Data sheet

## US2:17FUF82NJ13



Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 24VAC 50-60Hz coil, Combination type, 60A fusible disconnect, 60A/600V fuse clip, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

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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]	48 lb
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]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
<ul> <li>during operation</li> </ul>	-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	25 hp
<ul> <li>at 575/600 V rated value</li> </ul>	25 hp
Contactor	
size of contactor	NEMA controller size 2
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	45 A
mechanical service life (switching 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), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	

• at AC at 50 Hz rated value       24 V         • at AC at 60 Hz rated value       24 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       19 29 ms         ON-delay time       19 29 ms         OFF-delay time       10 24 ms <b>Overload relay</b> Yes         product function       Yes         • phase failure detection       Yes         • asymmetry detection       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- dependent overload release       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1	
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       0.85 1.1         ON-delay time       19 29 ms         OFF-delay time       10 24 ms         Overload relay       Yes         product function       Yes         • overload protection       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- dependent overload release       1 %         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board relay       1 %	
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OFF-delay time       10 24 ms         Overload relay	
Overload relay         product function         • overload protection         • phase failure detection         • phase failure detection         • asymmetry detection         • asymmetry detection         • ground fault detection         • ground fault detection         • external reset         reset function         • external reset         reset function         trip class         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 relay	
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• asymmetry detectionYes• ground fault detectionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release3 stripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYes	
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relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1	
product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1	
number of NC contacts of auxiliary contacts of overload 1 relay	
relay	
relay	
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 5A@600VAC (B600), 1A@250VDC (R300)	
insulation voltage (Ui)	
with single-phase operation at AC rated value     600 V	
with multi-phase operation at AC rated value     300 V	
Disconnect Switch	
response value of switch disconnector 60A / 600V	
design of fuse holder Class R fuse clips	
operating class of the fuse link Class R	
Enclosure	
degree of protection NEMA rating     4, 12	
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 35 35 lbf·in	
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 1x (14 2 AWG)	
temperature of the conductor for supply maximum 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 45 45 lbf·in	
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded 1x (14 2 AWG)	
temperature of the conductor for load-side outgoing feeder 75 °C maximum permissible	

material of the conductor for load-side outgoing feeder	AL or CU	
type of electrical connection of magnet coil	Screw-type terminals	
tightening torque [lbf·in] at magnet coil	5 12 lbf·in	
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 AWG)	
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=US2:17FUF82NJ13 Service&Support (Manuals, Certificates, Characteristics, FAQs,)		
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