SIEMENS

Data sheet

US2:18EUE82NJ



Non-reversing motor starter Size 1 3/4 Three phase full voltage Solid-state overload relay OLRelay amp range 10-40a 24VAC 50-60HZ coil Combination type 40AMP circuit breaker Enclosure NEMA type 4/12 Water/dust tight for outdoors Extra-wide enclosure

product brand name	Class 18 & 26
design of the product	Full-voltage non-reversing motor starter with motor circuit protector
special product feature	ESP200 overload relay; Half-size controller
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
 during operation 	-20 +40 °C
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	15 hp
 at 575/600 V rated value 	15 hp
Contactor	
size of contactor	Controller half size 1 3/4
size of contactor number of NO contacts for main contacts	Controller half size 1 3/4 3
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz	3
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum	3 600 V
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts	3 600 V 40 A
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical	3 600 V 40 A
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact	3 600 V 40 A 10000000
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts	3 600 V 40 A 10000000
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts	3 600 V 40 A 10000000 0 1
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum	3 600 V 40 A 10000000 0 1 8
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL	3 600 V 40 A 10000000 0 1 8
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600)
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600)
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage control supply voltage	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600) AC
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600) AC 24 V
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage e at AC at 50 Hz rated value e at AC at 60 Hz rated value	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600) AC 24 V 24 V
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage e at AC at 50 Hz rated value at AC at 60 Hz rated value holding power at AC minimum	3 600 V 40 A 10000000 0 1 8 10A@600VAC (A600), 5A@600VDC (P600) AC 24 V 24 V 24 V

magnet coil	
percental drop-out voltage of magnet coil related to the input 50 % voltage	
ON-delay time 19 29 ms	
OFF-delay time 10 24 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	
	hatic and remote
	/ 20 (factory set) / 30
adjustable current response value current of the current- dependent overload release	
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 according to 5A@600VAC UL	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	
Enclosure	
design of the housing dustproof, wat	erproof & weatherproof
design of the housing dustproof, wat Circuit Breaker	erproof & weatherproof
Circuit Breaker	erproof & weatherproof otector (magnetic trip only)
Circuit Breaker	
Circuit Breaker type of the motor protection Motor circuit protection operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous 115 375 A	
Circuit Breaker type of the motor protection Motor circuit protection operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous short-circuit trip unit 115 375 A	
Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous short-circuit trip unit 115 375 A Mounting/wiring 40 A	
Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous short-circuit trip unit 115 375 A Mounting/wiring Vertical	otector (magnetic trip only)
Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous 115 375 A short-circuit trip unit Mounting/wiring mounting position Vertical fastening method Surface mounting	
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Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous 115 375 A short-circuit trip unit 115 375 A Mounting/wiring Vertical mounting position Vertical fastening method Surface mountive structure of connectable conductor cross-sections at line-side type of connectable conductor for supply voltage line-side for AWG cables single or multi-stranded 1x (10 AWG 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 Screw-type te	rotector (magnetic trip only) ing and installation 1/0 AWG)
Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous 115 375 A short-circuit trip unit 115 375 A Mounting/wiring vertical mounting position Vertical fastening method Surface mountive surface mountives of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (10 AWG AWG AWG AWG AL or CU type of electrical connection for load-side outgoing feeder Screw-type te tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of connectable conductor cross-sections for AWG cables 1x (14 2 AW	rotector (magnetic trip only) ing and installation 1/0 AWG) minals
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Circuit Breaker type of the motor protection Motor circuit p operational current of motor circuit breaker rated value 40 A adjustable current response value current of instantaneous short-circuit trip unit 115 375 A Mounting/wiring 115 375 A mounting position Vertical fastening method Surface mounting type of electrical connection for supply voltage line-side bype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (10 AWG temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 1x (14 2 AV for load-side outgoing feeder 45 45 lbf-in type of connectable conductor cross-sections for AWG cables 1x (14 2 AV for load-side outgoing feeder single or multi-stranded 1x (14 2 AV temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 1x (14 2 AV for load-side outgoing feeder single or multi-stranded 1x (14 2 AV temperature of the conductor for load-side outgoing feeder 4L or CU	rotector (magnetic trip only) ing and installation 1/0 AWG) minals //G) MG)
Circuit Breakertype of the motor protectionMotor circuit poperational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringmounting positionVerticalfastening methodSurface mounttype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (10 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AVfor load-side outgoing feeder single or multi-stranded1x (14 2 AVfor load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AVfor load-side outgoing feeder single or multi-stranded1x (14 2 AVtemperature of the conductor for load-side outgoing feeder2 42 lbf-intype of electrical connection of magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 Atemperature of the conductor for load-side outgoing feeder2 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2 12 lbf-in	rotector (magnetic trip only) ing and installation 1/0 AWG) minals //G) MG)

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 short-circuit trip	Instantaneous trip circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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=US2:18EUE82NJ

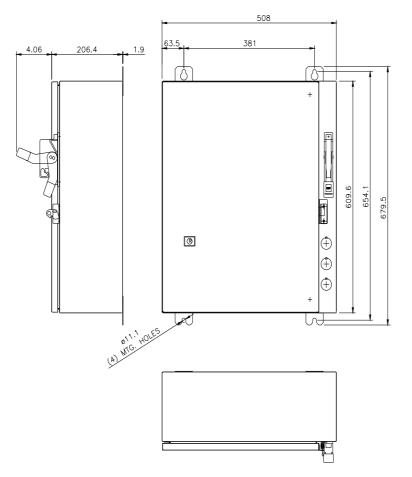
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

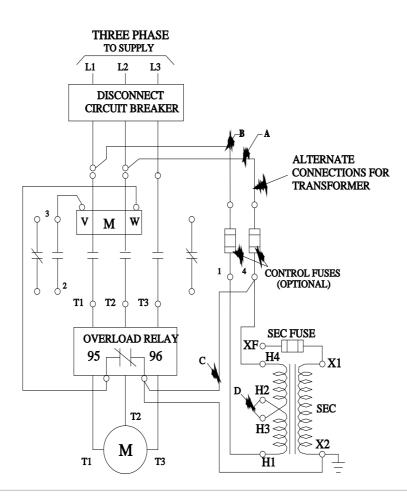
https://support.industry.siemens.com/cs/US/en/ps/US2:18EUE82NJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18EUE82NJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18EUE82NJ/certificate





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