## SIEMENS

## Data sheet

## US2:18FUF82WL



Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 240V 50Hz / 277V 60Hz coil, Combination type, 50A circuit breaker, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, 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
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	10 hp
• at 220/230 V rated value	15 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	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 (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	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	240 V
• at AC at 60 Hz rated value	277 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	0.85 1.1

Imagine tool         50 %           ON-delay time         10 29 ms           CFF-folding time         10 24 ms           CFF-folding time         10 24 ms           Vertical relay         10 24 ms           CFF-folding time         10 24 ms           Vertical relay         13 52 A           Operation of the current response value current of the current.         13 52 A           departed contacts of auxiliary contacts of overbad relay         1           relative reget accuracy         1 %           number of NC contacts of auxiliary contacts of overbad relay         1           operational carrent of auxiliary contacts of overbad relay         1           operational carrent of auxiliary contacts of overbad relay         1           operational carrent of auxiliary contacts of overbad relay         1           outs cattarg of auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of auxiliary contacts o		
Joinage         1924 ms           OFF-delay line         1024 ms           Orstand ratay         Manual, automatic and remote           reset function         Manual, automatic and remote           Tip class         CLASS 5 / 10.20 (fistory set) / 30           adjustable current response value current of the current- dependent overfade release         1352 A           make firm with automatic start after power failure maximum         3 s           relative repeat accuracy         1 %.           number of NC contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         1           operational current of auxiliary contacts of overfade relay         5 A           with this hase peration at AC rated value         800 V           insulation valtage (U)         600 V           with multi phase operation at AC rated value         80 A           degree of protection NEMA rating         4X. 304 stainless steel           degree of protection fonicon threaker rated value </td <td>magnet coil</td> <td>50 %</td>	magnet coil	50 %
OH-day time         19 24 ms           OFF-delay time         10 24 ms           Overtoad relay         10 24 ms           reset function         Manual, automatic and remote           trip class         CLASS 57 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- degenedent oversal delease         13 52 A           make time with automatic start after power failure maximum         3 s           relative repeat accuracy         1 %           number of NC contacts of auxiliary contacts of overload relay         1           outboart of NC contacts of auxiliary contacts of overload relay         1           outboart of NC contacts of overload relay         5A           outboart of NC contacts of overload relay according to         5A@@00VAC (B600), 1A@255VDC (R300)           Dub         10.         5A@@00VAC (B600), 1A@255VDC (R300)           Insolation voltage (U)         4X 304 stanless stelel         600 V           operational current of motor incut breaker rated value         50 A         60 A           adjustable current of stangen ratelay value         50 A         60 A     <		00 /0
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reset function         Manual, automatic and remote           trip class         CLASS 6 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent overfoad release         13	OFF-delay time	10 24 ms
trip class         CLASS 5 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent voerhoad release         13 52 A           make time with automatic start after power failure maximum         3 6           relative repeat accuracy         1 %           number of NC contacts of auxiliary contacts of overhoad relay         1           • at AC at 600 V         5 A           • at AC at 600 V         5 A           • at CC at 250 V         1 A           contacts rating of auxiliary contacts of overhoad relay         5 A           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overhoad relay         5 A           • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         50 A           deging of the molong         dustproof, waterproof & resistant to corrosion           Circuit Breaker         50 A           type of the molon protection         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         50 A           type of the molon or supply voltage line-side         50 A           adjustable current response value current of instananeous short-circuit trip	Overload relay	
adjutable current response value current of the current-       13 52 A         implement overfined release       3 s         relative repeat accuracy       1%         number of NC contacts of auxiliary contacts of overfined relay       1         operational current of auxiliary contacts of overfined relay       1         operational current of auxiliary contacts of overfined relay       1         operational current of auxiliary contacts of overfined relay       1         operational current of auxiliary contacts of overfined relay       1         operational current of auxiliary contacts of overfined relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overfined relay according to       5A@@00VAC (B600), 1A@250VDC (R300)         uik       with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • graduable current response value current of instantaneous       50 A         * adjutable current response value current of instantaneous       50 A         * short-circuit triseker       50 A         * ope	reset function	Manual, automatic and remote
dependent overload release         3 s           make time with automatic start after power failure maximum         3 s           relative repeat accuracy         1 %           number of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           • at AC at 600 V         5 A           • at AC at 600 V         5 A           • at AC at 600 V         5 A           • at AC at 200 V         1 A           contact rating of auxiliary contacts of overload relay according to         5A@800VAC (B800), 1A@250VDC (R300)           UL         insulation voltage (U)         5A@800VAC (B800, 1A@250VDC (R300)           • with might-phase operation at AC rated value         600 V           • with might-phase operation at AC rated value         500 V           earling of the housing         dustproof, waterproof & resistant to consolon           Circuit Breaker         50 A           ype of the motor protection         Motor circuit protector (magnetic tip only)           operational current of motor circuit breaker rated value         50 A           operational current response value current of instantaneous short-circuit protector (magnetic tip only)         180 600 A           short-circuit protection         Moutricuit protecon for supply voltage line-side         5	trip class	CLASS 5 / 10 / 20 (factory set) / 30
relative repeat accuracy       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         • at AC at 600 V       5 A         • at BC at 280 V       1 A         contacts of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         UL       insulation votage (UI)       • with single-phase operation at AC rated value         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         • operational current of motor circuit breaker rated value       50 A         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         mounting position       Vertical         fastening method <td< td=""><td></td><td>13 52 A</td></td<>		13 52 A
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       1         operational current of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to       5 A@600VAC (B600), 1A@250VDC (R300)         U.       insulation voltage (U)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         Circuit Breaker       7         Vep of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous       50 A         Mounting/witring       50 A         mounting position       Vertical         fastering method       Surface mounting and installation         Sype of electric for supply voltage line-side       56 °C         AWG cables single or multi-stranded       56 °C         farperature of the conductor for supply waltage line-side       56 °C         farperature of the conductor for load-side outgoing feeder       57	make time with automatic start after power failure maximum	3 s
number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         Contacts rating of auxiliary contacts of overload relay according to       5 A         uit       5 A         (insultation voltage (Ui)       • with single-phase operation at AC rated value         # with single-phase operation at AC rated value       600 V         # with with share operation at AC rated value       500 V         # operational current of motor circuit breaker rated value       500 V         # operational current of motor circuit breaker rated value       50 A         # operational current of motor circuit breaker rated value       50 A         # operational current of motor circuit breaker rated value       50 A         # operational current of motor circuit breaker rated value       50 A         # operational current of motor circuit breaker rated value       50 A         # operational current of motor circuit breaker rated value       50 A         # operating position       Vertical         # fastening method       Surface mounting and installation         Vype of electrical connection for supply voltage line-side       Box lug         Yype of electrical connection for supply maximum permissible       Tx (10 AWG)         #	relative repeat accuracy	1 %
operational current of auxiliary contacts of overload relay       5 A         • at AC at 600 V       5 A         • at BC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to       5A(ge00VAC (B600), 1A(g250VDC (R300))         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       50 A         degree of protection NEMA rating	number of NC contacts of auxiliary contacts of overload relay	1
• at AC at 600 V       5 A         • at DC at 250 V       1A         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       600 V       •         • with multi-phase operation at AC rated value       600 V       •         degree of protection NEMA rating       4X, 304 stainless steel       600 V         design of the housing       Circuit Breaker       000 V         Operational current of motor circuit breaker rated value       50 A       •         adjustable current response value current of instantaneous short circuit tip ontity       000 A       •         Mounting/Wring       •       •       •         mounting position       Surface mounting and installation       Vpe of electrical connection for supply voltage line-side       Box kug         Vpe of electrical connection for supply maximum persisble       75 °C       •       •         material of the conductor for load-side outgoing feeder       Box kug       10 4	number of NO contacts of auxiliary contacts of overload relay	1
• at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5&@600VAC (B600), 1A@250VDC (R300)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       400 V         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       50 A         adjustable current response value current of instantaneous short-circuit trip unit       50 A         Mounting/wring       mounting position         Vype of electrical connection for supply voltage line-side       Box lug         Type of electrical connection for supply maximum permissible       Box lug         material of the conductor for supply maximum permissible       To C         material of the conductor for supply maximum permissible       To C U         type of electrical connectable conductor for load-side outgoing feeder       Box lug         tightening trop of the conductor for load-side outgoing feeder       Box lug         type of electrical connectable conductor for supply maximum permissible       To CU         type of electrical connectable conductor for load-side outgoing feeder       Box lug         tightening torque [lbf in] to load-side outgoi		
contact rating of auxiliary contacts of overload relay according to UL.       5A@600VAC (B600), 1A@250VDC (R300)         insultation voltage (U)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         gene of protection NEMA rating       4X, 304 stainless steel         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       type of the motor protection         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous       180 600 A         short-circuit fip unit       180 600 A         Mounting/wiring       mounting position         Yope of connectable conductor rors-sections at line-side       Box lug         type of connectable conductor rors-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 load-side outgoing feeder       45 45 lbFin         type of electrical connection for load-side outgoing feeder       45 45 lbFin         type of connectable conductor for load-side outgoing feeder       57 °C      <		
UL     Insulation voltage (Ui)       • with single-phase operation at AC rated value     500 V       • with multi-phase operation at AC rated value     300 V       Enclosuro     degree of protection NEMA rating     4X, 304 stainless steel       design of the housing     dustproof, waterproof & resistant to corrosion       Circuit Broaker     50 A       type of the motor protection     50 A       adjustable current response value current of instantaneous     180 600 A       short-circuit trip unit     50 A       Mounting/wiring     Wertical       mounting position     Vertical       fastening method     Surface mounting and installation       type of electrical connectable conductor cross-sections at line-side for     1x (10 AWG)       AVWG cables single or multi-stranded     1stor CU       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     45 45 librin       type of electrical connection for load-side outgoing feeder     45 45 librin       type of connectable conductor for assections for AWG cables     1x (14 2 AWG)       (for edoal-side outgoing feeder     45 45 librin       type of electrical connection for load-side outgoing feeder     45 12 librin       type of connectable cond		
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  Enclosure  degree of protection NEMA rating     design of the housing     dustproof, waterproof & resistant to corrosion  Circuit Breaker  Vpe of the motor protection     yoperational current of motor circuit breaker rated value     50 A     adjustable current response value current of instantaneous     short-circuit trip unit  Mounting/wring     mounting position     Vertical     fastening method     Surface mounting and installation     Ype of electrical connection for supply valtage line-side for     AL or CU     Ype of connectable conductor for load-side outgoing feeder     Ype of electrical connection for load-side outgoi	UL	5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value         300 V           Enclosure         4X, 304 stainless steel           degree of protection NEMA rating         4X, 304 stainless steel           design of the housing         dustproof, waterproof & resistant to corrosion           Circuit Breaker         50 A           adjustable current response value current of instantaneous short-circuit trip unit         50 A           Mounting/wiring         180 600 A           mounting position         Vertical           fastening method         Surface mounting and installation           Vype of electrical connection for supply voltage line-side         Box lug           type of connectable conductor or supply waximum permissible         75 °C           material of the conductor for load-side outgoing feeder         45 45 lbf-lin           type of connectable conductor or load-side outgoing feeder         45 45 lbf-lin           type of connectable conductor for load-side outgoing feeder         45 45 lbf-lin           type of electrical connection for load-side outgoing feeder         45 45 lbf-lin           type of electrical connection for load-side outgoing feeder         18 2 AWG)           temperature of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         45 45 lbf-lin <tr< td=""><td></td><td>0001/</td></tr<>		0001/
Enclosure       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       Type of the motor protection         ype of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous       500 A         short-circuit tip unit       180 600 A         Mounting/wiring       180 600 A         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side for       1x (10 AWG 1/0 AWG)         AWC cables single or multi-stranded       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbf in         lype of connectable conductor for supply MAG cables       1x (14 2 AWG)         for load-side outgoing feeder single or multi-stranded       1x (14 2 AWG)         tor load-side outgoing feeder       AL or CU         type of electrical connection of magnet coil       5 crew-type terminals         tightening torque [l		
degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous short-circuit trip unit       180 600 A         Mounting/wiring       mounting position         Vertical       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor for supply maximum permissible       Ts °C         material of the conductor for supply maximum permissible       Ts °C         temperature of the conductor for load-side outgoing feeder       45 45 librin         type of electrical connectable conductor for load-side outgoing feeder       45 45 librin         type of electrical connectable conductor for load-side outgoing feeder       45 45 librin         type of electrical connector for load-side outgoing feeder       45 45 librin         type of electrical connector for load-side outgoing feeder       1x (14 2 AWG)         for load-side outgoing feeder       AL or CU         type of electrical connection of magnet coil       5 45 librin	· · ·	300 V
design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       Image: Construct the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A       30 A         adjustable current response value current of instantaneous short-circuit trip unit       180 600 A       300 A         Mounting/wiring       Image: Construct the system of th		
Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous short-circuit trip unit       180 600 A         Mounting/wiring       180 600 A         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of electrical connection for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       1x (10 AWG 1/0 AWG)         type of connectable 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       1x (14 2 AWG)         for load-side outgoing feeder       AL or CU         type of electrical connection for load-side outgoing feeder       AL or CU         type of electrical connector for load-side outgoing feeder       1x (14 2 AWG)         for load-side outgoing feeder       AL or CU         type of electrical connection of magnet coil       5crew-type terminals		
type of the motor protection         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         50 A           adjustable current response value current of instantaneous short-circuit trip unit         180 600 A           Mounting/wiring         180 600 A           mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           type of electrical connection for supply maximum permissible         75 °C           material of the conductor for supply maximum permissible         75 °C           tightening torque [lbf-lin] for load-side outgoing feeder         Box lug           type of connectable conductor for supply maximum permissible         75 °C           material of the conductor for supply maximum permissible         75 °C           tightening torque [lbf-lin] for load-side outgoing feeder         45 45 lbf-lin           type of connectable conductor cross-sections for AWG cables         1x (14 2 AWG)           for load-side outgoing feeder         AL or CU           temperature of the conductor for load-side outgoing feeder         AL or CU           maximum permissible         75 °C           maximum permissible         75 °C           maximum permissible <td></td> <td>dustproof, waterproof &amp; resistant to corrosion</td>		dustproof, waterproof & resistant to corrosion
operational current of motor circuit breaker rated value       50 A         adjustable current response value current of instantaneous short-circuit trip unit       180 600 A         Mounting/wiring       180 600 A         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of connectable conductor cross-sections for AWG cables       1x (14 2 AWG)         tor lead-side outgoing feeder       45 45 lbf in         tightening torque [lbf in] for load-side outgoing feeder       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         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 electrical conductor cross-sections of magnet coil for AL or CU       5 12 lbf in         type of electrical connection of magnet coil       5 12 lbf		
adjustable current response value current of instantaneous short-circuit trip unit       180 600 A         Mounting/wiring       mounting position       Vertical         mounting position       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of electrical connection for supply voltage line-side for AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       55 45 lbf·in         tightening torque [lbf·in] or load-side outgoing feeder       Box lug         tightening torque [lbf·in] for load-side outgoing feeder       45 45 lbf·in         type of electrical connection for load-side outgoing feeder       1x (14 2 AWG)         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       75 °C         material 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       75 °C         material of the conductor for load-side outgoing feeder       AL or CU         type of electrical		
short-circuit trip unit       Mounting/wiring         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       80x lug         tightening torque [lbf in] for load-side outgoing feeder       Box lug         tightening torque [lbf in] for load-side outgoing feeder       45 45 lbf in         type of connectable conductor for load-side outgoing feeder       1x (14 2 AWG)         for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       1x (14 2 AWG)         for load-side outgoing feeder       1x (14 2 AWG)         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 at magnet coil for AWG cables single or multi-stranded       2x (16 12 AWG)         temperature of the conductor at magnet coil for AWG cables single or multi-stranded       75		
mounting positionVerticalfastening methodSurface mounting and installationtype 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 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feederBox lugtemperature of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of nagnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)tightening torque of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCU	short-circuit trip unit	180 600 A
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material of the conductor at magnet coil CU	temperature of the conductor at magnet coil maximum	75 °C
		CU
tightening torque [lbf-in] at contactor for auxiliary contacts 10 15 lbf-in		
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)	type of connectable conductor cross-sections at contactor for	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible 75 °C		75 °C
material of the conductor at contactor for auxiliary contacts CU		
type of electrical connection at overload relay for auxiliary Screw-type terminals	maximum permissible	
tightening torque [lbf-in] at overload relay for auxiliary contacts 7 10 lbf-in	maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary	CU
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded 2x (20 14 AWG)	maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts	CU Screw-type terminals

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

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

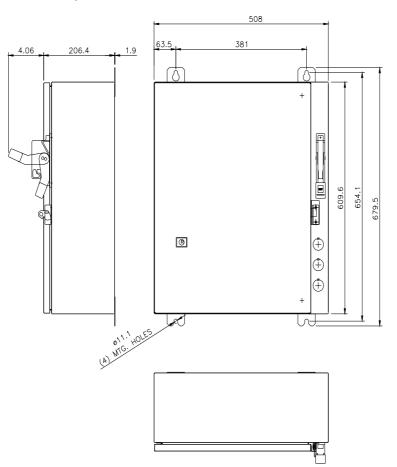
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18FUF82WL

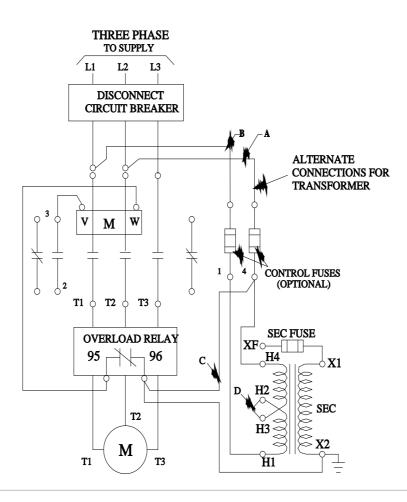
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18FUF82WL

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18FUF82WL&lang=en

Certificates/approvals

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