## **SIEMENS**

Data sheet US2:18GUG92BF



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Combination type, 100A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use, Standard width 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]  |   |
| <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  | 15 hp   |
| • at 220/230 V rated value  | 20 hp   |
| • at 460/480 V rated value  | 30 hp   |
| • at 575/600 V rated value  | 30 hp   |
| Contactor   |   |
| size of contactor   | Controller half size 2 1/2  |
| 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                          | 60 A  |
| mechanical service life (operating cycles) of the main contacts typical | 10000000  |
| 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  | 110 V   |
| at AC at 60 Hz rated value  | 120 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  |

| magnet coil   | FO.07  |
|---|--|
| percental drop-out voltage of magnet coil related to the input voltage  | 50 %   |
| ON-delay time   | 19 29 ms   |
| OFF-delay time  | 10 24 ms   |
| Overload relay  |  |
| product function  |  |
| <ul> <li>overload protection</li> </ul>   | Yes  |
| <ul> <li>phase failure detection</li> </ul>   | Yes  |
| asymmetry detection   | Yes  |
| <ul> <li>ground fault detection</li> </ul>  | 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-<br>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  | 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  | 300 V  |
| Enclosure   |  |
| A CONTRACTOR OF   | 4  |
| degree of protection NEMA rating  | 1  |
| degree of protection NEMA rating design of the housing  | 1 indoors, usable on a general basis   |
|   |  |
| design of the housing   |  |
| design of the housing Circuit Breaker   | indoors, usable on a general basis   |
| design of the housing  Circuit Breaker  type of the motor protection  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)   |
| design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  |
| design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  |
| design of the housing  Circuit Breaker  type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring   | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  315 1000 A  |
| design of the housing  Circuit Breaker  type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  315 1000 A  Vertical  |
| design of the housing  Circuit Breaker  type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position  fastening method  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only) 100 A 315 1000 A  Vertical Surface mounting and installation  |
| design of the housing  Circuit Breaker  type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for  | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  315 1000 A  Vertical  Surface mounting and installation  Box lug  |
| design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded   | indoors, usable on a general basis  Motor circuit protector (magnetic trip only)  100 A  315 1000 A  Vertical  Surface mounting and installation  Box lug  1x (10 AWG 1/0 AWG)   |
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| AWG cables for auxiliary contacts single or multi-stranded  |                                     |
|---|-------------------------------------|
| 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   |                                     |

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

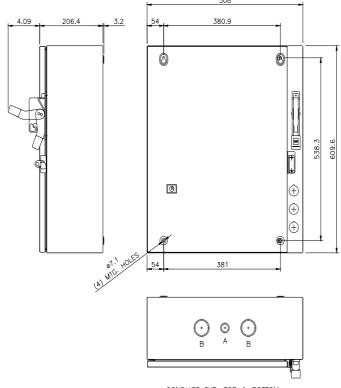
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18GUG92BF

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

https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG92BF

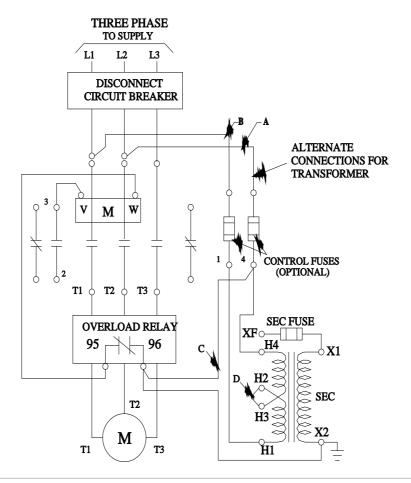
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18GUG92BF&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:18GUG92BF/certificate



CONDUITS TYP. TOP & BOTTOM

| LETTER | CONDUIT SIZE          |
|--------|-----------------------|
| Α      | ø12.7 & ø19 CONDUIT   |
| В      | ø31.8 & ø38.1 CONDUIT |



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