## **SIEMENS**

Data sheet US2:22BUB32AG



Figure similar

Reversing motor starter, Size 00, Three phase full voltage, Solid-state overload relay, OLRelay amp range 0.75-3.4a, 190 220/220 240V 50/60HZ coil, Non-combination type, Enclosure type (open), No enclosure

| product brand name  | Class 22                             |
|---|--------------------------------------|
| design of the product   | Full-voltage reversing motor starter |
| special product feature   | ESP200 overload relay                |
| General technical data  |                                      |
| weight [lb]   | 6 lb                                 |
| Height x Width x Depth [in]   | 7.69 × 10.5 × 3.92 in                |
| touch protection against electrical shock                               | Not finger-safe                      |
| installation altitude [ft] at height above sea level maximum            | 6560 ft                              |
| ambient temperature [°F]  |                                      |
| during storage  | -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   | Mexico                               |
| Horsepower ratings  |                                      |
| yielded mechanical performance [hp] for 3-phase AC motor                |                                      |
| <ul> <li>at 200/208 V rated value</li> </ul>                            | 0.5 hp                               |
| • at 220/230 V rated value  | 0.75 hp                              |
| <ul><li>at 460/480 V rated value</li></ul>                              | 1.5 hp                               |
| ● at 575/600 V rated value  | 2 hp                                 |
| Contactor   |                                      |
| size of contactor   | NEMA controller size 00              |
| 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                          | 9 A                                  |
| mechanical service life (switching 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                              | 8                                    |
| 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  | 190 220 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  | 50 %                                 |
| 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  | No                                   |
| 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                           | 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   |                                      |
| <ul><li>at AC at 600 V</li></ul>  | 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)   |                                      |
| <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                                |
| Enclosure   |                                      |
| degree of protection NEMA rating  | Open device (no enclosure)           |
| design of the housing   | NA                                   |
|   | IVA                                  |
| Mounting/wiring   | Vertical                             |
| mounting position   | Vertical Conference and installation |
| fastening method  | Surface mounting and installation    |
| type of electrical connection for supply voltage line-side  | Screw-type terminals                 |
| tightening torque [lbf·in] for supply   | 20 20 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 permissible   | 75 °C                                |
| material of the conductor for supply  | AL or CU                             |
| type of electrical connection for load-side outgoing feeder   | Screw-type terminals                 |
| tightening torque [lbf·in] for load-side outgoing feeder  | 20 24 lbf·in                         |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 2x (14 10 AWG)                       |
| temperature of the conductor for load-side outgoing feeder maximum permissible                                    | 75 °C                                |
| material of the conductor for load-side outgoing feeder   | 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  |                                      |

| 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) |
| design of the short-circuit trip   | Thermal magnetic circuit breaker                    |
| breaking capacity maximum short-circuit current (Icu)  |   |
| • at 240 V   | 14 kA   |
| ● at 480 V   | 10 kA   |
| ● at 600 V   | 10 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=US2:22BUB32AG

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22BUB32AG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22BUB32AG&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22BUB32AG&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22BUB32AG/certificate

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