## **SIEMENS**

Data sheet US2:22JUH32BF



Reversing motor starter, Size 4, Three phase full voltage, Solid-state overload relay, OLR amp range 50-200A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width 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]   | 43 lb                                |
| Height x Width x Depth [in]   | 25 × 14 × 9 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                           |
| country of origin   | USA                                  |
| Horsepower ratings  |                                      |
| yielded mechanical performance [hp] for 3-phase AC motor                |                                      |
| • at 200/208 V rated value  | 40 hp                                |
| • at 220/230 V rated value  | 50 hp                                |
| • at 460/480 V rated value  | 100 hp                               |
| <ul> <li>at 575/600 V rated value</li> </ul>                            | 100 hp                               |
| Contactor   |                                      |
| size of contactor   | NEMA controller size 4               |
| 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                          | 135 A                                |
| mechanical service life (operating cycles) of the main contacts typical | 5000000                              |
| 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  |                                      |
| <ul> <li>at AC at 50 Hz rated value</li> </ul>                          | 110 V                                |
| at AC at 60 Hz rated value  | 120 V                                |
| holding power at AC minimum   | 22 W                                 |
| apparent pick-up power of magnet coil at AC                             | 510 VA                               |

| apparent holding power of magnet coil at AC   | 51 VA   |
|---|---|
| operating range factor control supply voltage rated value of  | 0.85 1.1  |
| magnet coil   |   |
| percental drop-out voltage of magnet coil related to the input voltage  | 50 %  |
| ON-delay time   | 18 34 ms  |
| OFF-delay time  | 10 12 ms  |
| Overload relay  |   |
| product function  |   |
| <ul> <li>overload protection</li> </ul>   | Yes   |
| phase failure detection   | Yes   |
| <ul> <li>asymmetry detection</li> </ul>   | Yes   |
| ground fault detection  | 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   | 50 200 A  |
| make time with automatic start after power failure maximum  | 3 \$  |
| 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   |
| <ul> <li>operational current of auxiliary contacts of overload relay</li> <li>at AC at 600 V</li> </ul>   | 5 A   |
| • at AC at 600 V • at DC at 250 V   | 1 A   |
| • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to   | 1 A<br>5A@600VAC (B600), 1A@250VDC (R300)   |
| UL  | 5. 16000 AO (D000), IA6200 ADO (1000)   |
| insulation voltage (Ui)   |   |
| <ul> <li>with single-phase operation at AC rated value</li> </ul>   | 600 V   |
|   | 000 \   |
| with multi-phase operation at AC rated value  | 300 V   |
| with multi-phase operation at AC rated value     Enclosure  | 300 V   |
| Enclosure degree of protection NEMA rating  | 1   |
| Enclosure  degree of protection NEMA rating design of the housing   |   |
| Enclosure degree of protection NEMA rating design of the housing Mounting/wiring  | 1 indoors, usable on a general basis  |
| Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring mounting position  | 1 indoors, usable on a general basis  Vertical  |
| Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method   | 1 indoors, usable on a general basis  Vertical  Surface mounting and installation   |
| Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side  | 1 indoors, usable on a general basis  Vertical Surface mounting and installation Box lug  |
| degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for   | 1 indoors, usable on a general basis  Vertical Surface mounting and installation  |
| degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded   | 1 indoors, usable on a general basis  Vertical Surface mounting and installation Box lug 200 200 lbf-in 1x (6 AWG 250 MCM)  |
| degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible   | 1 indoors, usable on a general basis  Vertical Surface mounting and installation Box lug 200 200 lbf-in 1x (6 AWG 250 MCM)  75 °C   |
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| 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 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 fuse link for short-circuit protection of the main  | 10kA@600V (Class H or K); 100kA@600V (Class R or J)  Thermal magnetic circuit breaker |
| design of the fuse link for short-circuit protection of the main circuit required   |   |
| design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip  |   |
| design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)                        | Thermal magnetic circuit breaker  |
| design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V            | Thermal magnetic circuit breaker  10 kA   |
| design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)  • at 240 V • at 480 V | Thermal magnetic circuit breaker  10 kA 10 kA   |

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=US2:22JUH32BF

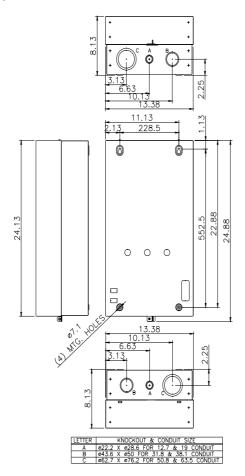
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

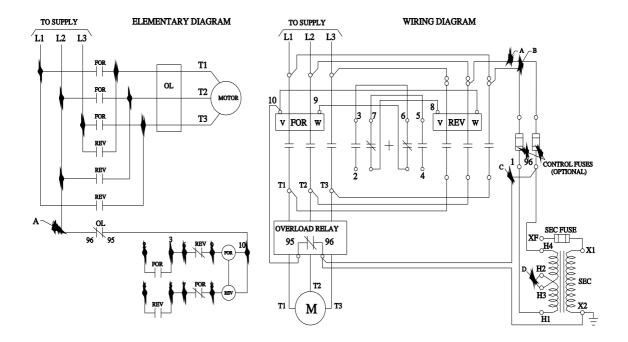
https://support.industry.siemens.com/cs/US/en/ps/US2:22JUH32BF

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=US2:22JUH32BF&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22JUH32BF&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22JUH32BF/certificate





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