## **SIEMENS**

Data sheet US2:22LPU32AG



Reversing motor starter Size 5 Three phase full voltage Solid-state overload relay OLRelay amp range 55-250A 220-240V 50-60HZ/DC coil Non-combination type Enclosure type (open)

| product brand name  | Class 22  |
|---|---|
| design of the product   | Full-voltage reversing motor starter                          |
| General technical data  |   |
| weight [lb]   | 41 lb(av)   |
| touch protection against electrical shock                               | Main circuit (not finger-safe); Control circuit (finger-safe) |
| 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  | 75 hp   |
| • at 220/230 V rated value  | 100 hp  |
| <ul> <li>at 460/480 V rated value</li> </ul>                            | 200 hp  |
| ● at 575/600 V rated value  | 200 hp  |
| Contactor   |   |
| size of contactor   | NEMA controller size 5  |
| 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                          | 270 A   |
| mechanical service life (operating cycles) of the main contacts typical | 10000000  |
| Auxiliary contact   |   |
| number of NC contacts at contactor for auxiliary contacts               | 2   |
| number of NO contacts at contactor for auxiliary contacts               | 2   |
| number of total auxiliary contacts maximum                              | 8   |
| contact rating of auxiliary contacts of contactor according to UL       | 10A@600VAC (A600), 2.5A@600VDC (Q600)                         |
| Coil  |   |
| type of voltage of the control supply voltage                           | AC/DC   |
| control supply voltage  |   |
| • at DC rated value   | 220 240 V   |
| • at AC at 50 Hz rated value  | 220 240 V   |
| • at AC at 60 Hz rated value  | 220 240 V   |
| holding power at AC minimum   | 7.4 W   |
| apparent pick-up power of magnet coil at AC                             | 590 VA  |
| apparent holding power of magnet coil at AC                             | 6.7 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  | 60 %  |
| ON-delay time   | 30 95 ms  |
| OFF-delay time  | 40 80 ms  |
| Overload relay  |   |
| product function  |   |
| overload protection   | Yes   |
| phase failure detection   | Yes   |
| asymmetry detection   | Yes   |
| ground fault detection  | No  |
| • test function   | Yes   |
| external reset  | No  |
| reset function  | Manual and automatic  |
| trip class  | CLASS 20  |
| adjustable current response value current of the current-<br>dependent overload release   | 55 250 A  |
| product feature protective coating on printed-circuit board   | No  |
| 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   |
| <ul> <li>with multi-phase operation at AC rated value</li> </ul>  | 300 V   |
| Enclosure   |   |
| design of the housing   | NA  |
|   |   |
| Mounting/wiring   |   |
|   | Vertical  |
| Mounting/wiring   |   |
| Mounting/wiring mounting position   | Vertical  |
| Mounting/wiring mounting position fastening method  | Vertical Surface mounting and installation  |
| Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side   | Vertical Surface mounting and installation Box lug  |
| 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   | Vertical Surface mounting and installation Box lug 180 195 lbf·in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0   |
| 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   | Vertical Surface mounting and installation Box lug 180 195 lbf-in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)  |
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| for AWG cables for auxiliary contacts single or multi-stranded                            |   |
|---|---|
| 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         | 14kA@600V (Class H or K); 100kA@600V (Class R or J) |
| design of the short-circuit trip  | Thermal magnetic circuit breaker                    |
| maximum short-circuit current breaking capacity (Icu)                                     |   |
| • at 240 V  | 14 kA   |
| • at 480 V  | 14 kA   |
| ● at 600 V  | 14 kA   |
| certificate of suitability  | NEMA ICS 2; UL 508; CSA 22.2, No.14                 |
| Approvals Certificates  |   |

## **Test Certificates**



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=US2:22LPU32AG

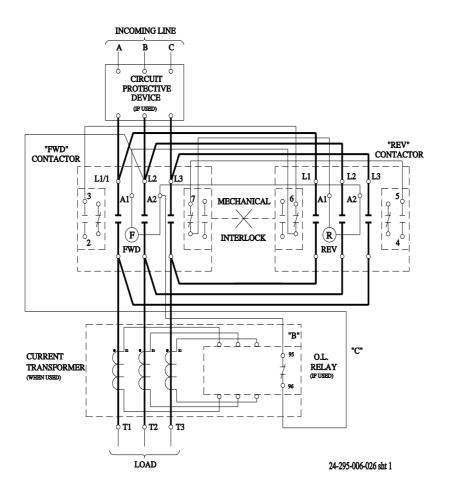
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22LPU32AG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22LPU32AG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22LPU32AG/certificate



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