SIEMENS

Data sheet US2:22LPU32BL



Reversing motor starter, Size 5, Three phase full voltage, Solid-state overload relay, OLR amp range 55-250A, 240-277V 50-60Hz/DC 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 |
| General technical data | |
| weight [lb] | 134 lb |
| Height x Width x Depth [in] | 40 × 20 × 11 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 | 75 hp |
| • at 220/230 V rated value | 100 hp |
| • at 460/480 V rated value | 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@240VAC (A300), 2.5A@250VDC (Q300) |
| Coil | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage | |
| at DC rated value | 240 277 V |
| at AC at 50 Hz rated value | 240 277 V |
| at AC at 60 Hz rated value | 240 277 V |
| holding power at AC minimum | 7.4 W |
| apparent pick-up power of magnet coil at AC | 590 VA |

| 41.18 | 0.7.1/4 |
|--|--|
| 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 | Yes |
| reset function | Manual and automatic |
| trip class | CLASS 20 |
| adjustable current response value current of the current- 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 | 1 A |
| 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 | |
| | |
| design of the housing | indoors, usable on a general basis |
| | indoors, usable on a general basis |
| design of the housing | indoors, usable on a general basis Vertical |
| design of the housing Mounting/wiring | |
| design of the housing Mounting/wiring mounting position | Vertical Surface mounting and installation Box lug |
| design of the housing Mounting/wiring mounting position fastening method | Vertical Surface mounting and installation |
| design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side | 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) |
| 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 | 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 |
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| 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 | 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 |
| Further information | |

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product?mlfb=US2:22LPU32BLanders.com/mall/en/us/Catalog/product/en/us/Catalog/pro$

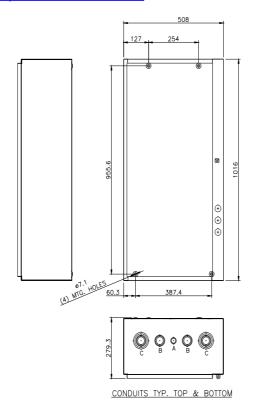
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22LPU32BL

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

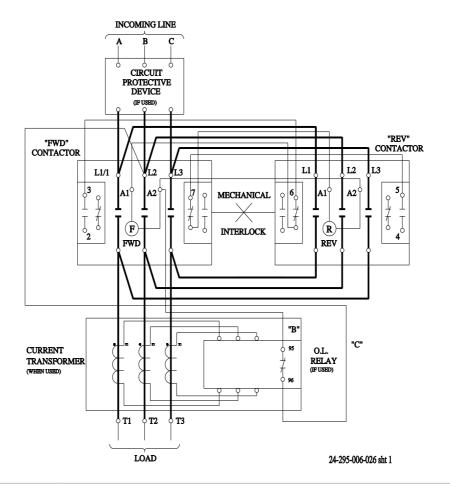
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22LPU32BL&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22LPU32BL/certificate



| LETTER | CONDUIT SIZE |
|--------|-----------------------|
| | ø12.7 & ø19 CONDUIT |
| | ø31.8 & ø38.1 CONDUIT |
| С | ø50.8 & ø76.2 CONDUIT |



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