SIEMENS

Data sheet US2:30DUDC3201HF



2-speed 3-phase motor starter Size 1 Two separate windings Constant horsepower Solid-state overload relays Low SPD OLR range 3-12A High SPD OLR range 5.5-22A 110V 50HZ / 120V 60HZ coil Enclosure NEMA type 12 Dust/drip proof for indoors

| product brand name | Class 30 |
|---|--------------------------------------|
| design of the product | Full-voltage two speed motor starter |
| special product feature | ESP200 overload relay |
| General technical data | |
| weight [lb] | 17 lb |
| Height x Width x Depth [in] | 13 × 13 × 5 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 | 5 hp |
| • at 220/230 V rated value | 5 hp |
| ● at 460/480 V rated value | 7.5 hp |
| ● at 575/600 V rated value | 7.5 hp |
| Contactor | |
| size of contactor | NEMA controller size 1 |
| number of NO contacts for main contacts | 6 |
| operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| operational current at AC at 600 V rated value | 27 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), 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 |

| | OF 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 | Yes |
| reset function | Manual, automatic and remote |
| trip class | CLASS 5 / 10 / 20 (factory set) / 30 |
| adjustable current response value current of overload relay | |
| • for low rotational speed | 3 12 A |
| for high rotational speed | 5.5 22 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 | 1 A |
| contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| inculation voltage (Lli) | |
| moulation voitage (Oi) | |
| insulation voltage (Ui) • with single-phase operation at AC rated value | 600 V |
| | 600 V 300 V |
| with single-phase operation at AC rated value | |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value | |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure | 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing | 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring | 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position | 300 V 12 dustproof and drip-proof for indoor use Vertical |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method | 300 V 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 | 300 V 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method | 300 V 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 300 V 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 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 | 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 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 material of the conductor for supply | 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x (14 2 AWG) 75 °C AL or CU |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder | 300 V 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value 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 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 material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables | 12 dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals |
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| 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 | |
| | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| Short-circuit current rating 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 |
| Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required | |
| Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required design of the short-circuit trip | |
| Short-circuit current rating 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 |
| Short-circuit current rating 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 14 kA |
| Short-circuit current rating 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 14 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=US2:30DUDC3201HF

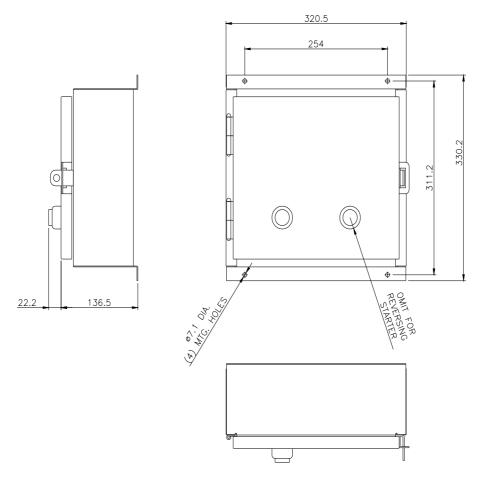
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:30DUDC3201HF

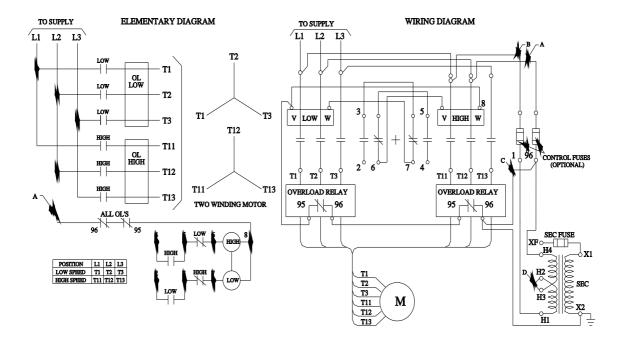
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30DUDC3201HF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:30DUDC3201HF/certificate





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