SIEMENS

Data sheet US2:30JUHH32B1VF



2-speed 3-phase motor starter, Size 4, Two separate windings, Constant or variable torque, Solid-state overload relays, Low Spd OLR range 50-200A, High Spd OLR range 50-200A, 110V 50Hz / 120V 60Hz coil, Enclosure NEMA type 1, Indoor general purpose use

| 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] | 44 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 |
| • at 575/600 V rated value | 100 hp |
| Contactor | |
| size of contactor | NEMA controller size 4 |
| 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 | 135 A |
| mechanical service life (operating cycles) of the main contacts typical | 5000000 |
| 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 | 7 |
| contact rating of auxiliary contacts of contactor according to UL | 10A@600VAC (A600), 2.5A@300VDC (Q300) |
| 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 | 22 W |
| apparent pick-up power of magnet coil at AC | 510 VA |

| | 54.)// |
|---|---|
| apparent holding power of magnet coil at AC | 51 VA |
| operating range factor control supply voltage rated value of magnet coil | 01 |
| 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 | |
| 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 | 50 200 A |
| for high rotational speed | 50 200 A |
| tripping time at phase-loss 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 | 1A |
| contact rating of auxiliary contacts of overload relay according to UL | 5 |
| insulation voltage (Ui) | |
| | |
| with single-phase operation at AC rated value | 600 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value | 600 V 300 V |
| with multi-phase operation at AC rated value | 600 V 300 V |
| with multi-phase operation at AC rated value Enclosure | 300 V |
| with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating | 300 V |
| with multi-phase operation at AC rated value Enclosure | 300 V |
| with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing | 300 V |
| with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring | 1 indoors, usable on a general basis |
| with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position | 1 indoors, usable on a general basis vertical |
| 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 1 indoors, usable on a general basis vertical Surface mounting and installation |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf·in |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf·in 1 |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU |
| 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 | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf·in 1 75 °C CU Box lug |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals 5 12 lbf-in |
| 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 for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals 5 12 lbf-in 2 |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals 5 12 lbf-in 2 75 °C CU |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals 5 12 lbf-in 2 75 °C CU Screw-type terminals |
| 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 for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil | 1 indoors, usable on a general basis vertical Surface mounting and installation Box lug 200 200 lbf-in 1 75 °C CU Box lug 200 200 lbf-in 1 75 °C CU Screw-type terminals 5 12 lbf-in 2 75 °C CU |

| 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 | 2 |
| 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 | 10 |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 10 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=US2:30JUHH32B1VF

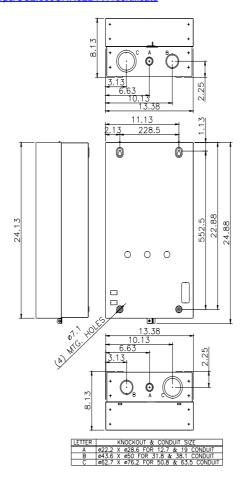
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:30JUHH32B1VF

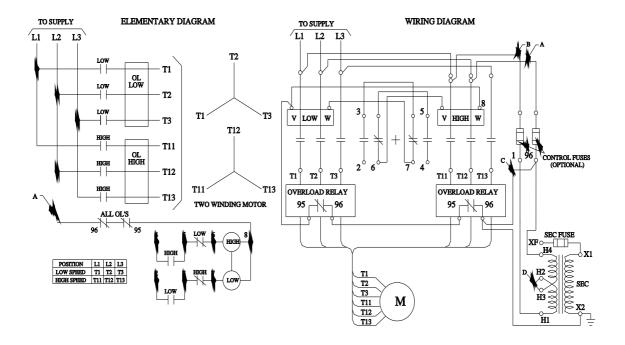
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30JUHH32B1VF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:30JUHH32B1VF/certificate





D46590008

last modified: 12/3/2022 🖸