SIEMENS

## Data sheet 3RE4122-3BA31-4NH3

| | STARTER, 3RE41223BA314NY0, WITH MODS |
|---|---|
| product brand name | Siemens |
| product designation | Non-reversing motor starter |
| special product feature | Hand-Off-Auto Selector Switch, CPT Std Capacity 480/240:120V |
| **General technical data** | |
| weight [lb] | 13 lb |
| Height x Width x Depth [in] | 14 × 8 × 7 in |
| touch protection against electrical shock | NA for enclosed products |
| installation altitude [ft] at height above sea level maximum | 6 560 ft |
| country of origin | Germany |
| **Power and control electronics** | |
| number of poles for main current circuit | 3 |
| 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 |
| disconnector functionality | No |
| yielded mechanical performance [hp] for 3-phase AC motor | |
| ● at 200/208 V rated value | 2 hp |
| ● at 220/230 V rated value | 3 hp |
| ● at 460/480 V rated value | 5 hp |
| ● at 575/600 V rated value | 7.5 hp |
| **Contactor** | |
| number of NO contacts for main contacts | 3 |
| operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| operating voltage at AC-3 rated value maximum | 600 V |
| mechanical service life (operating cycles) of the main contacts typical | 30 000 000 |
| **Auxiliary contact** | |
| number of NC contacts for auxiliary contacts | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| number of total auxiliary contacts maximum | 8 |
| contact rating of auxiliary contacts of contactor according to UL | 10A@600V(A600), 2.5A@600V(Q600) |
| **Coil** | |
| apparent pick-up power of magnet coil at AC | 67 VA |
| apparent holding power of magnet coil at AC | 6.5 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.8 ... 1.1 |
| ON-delay time | 9 ... 38 ms |
| OFF-delay time | 4 ... 16 ms |
| **Overload relay** | |
| product function | |
| ● overload protection | Yes |
| ● test function | Yes |
| ● external reset | Yes |
| reset function | Manual, automatic and remote (with optional accessory) |
| adjustment range of thermal overload trip unit | 23 ... 28 |
| number of NC contacts of auxiliary contacts of overload relay | 1 |
| number of NO contacts of auxiliary contacts of overload relay | 1 |
| contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| **Enclosure** | |


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| | |
|---|---|
| degree of protection NEMA rating of the enclosure | NEMA 1 large size enclosure |
| design of the housing | indoors, usable on a general basis |
| **Mounting/wiring** | |
| mounting position | vertical |
| fastening method | Surface mounting and installation |
| type of electrical connection for supply voltage line-side | Screw-type terminals |
| tightening torque [lbf·in] for supply | 18 ... 21 lbf·in |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 2x (16 ... 12), 2x (14 ... 8) |
| temperature of the conductor for supply maximum permissible | 60 °C |
| material of the conductor for supply | CU |
| type of electrical connection for load-side outgoing feeder | Screw-type terminals |
| tightening torque [lbf·in] for load-side outgoing feeder | 18 ... 21 lbf·in |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 2x (16 ... 12), 2x (14 ... 8) |
| temperature of the conductor for load-side outgoing feeder maximum permissible | 60 °C |
| material of the conductor for load-side outgoing feeder | CU |
| type of electrical connection of magnet coil | Screw-type terminals |
| tightening torque [lbf·in] at magnet coil | 7 ... 10 lbf·in |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded | 2x (16 ... 12), 2x (14 ... 8) |
| temperature of the conductor at magnet coil maximum permissible | 75 °C |
| material of the conductor at magnet coil | CU |
| type of electrical connection for auxiliary contacts | Screw-type terminals |
| tightening torque [lbf·in] at contactor for auxiliary contacts | 7 ... 10 lbf·in |
| type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded | 2x (20 ... 16), 2x (18 ... 14) |
| 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 ... 16), 2x (18 ... 14) |
| temperature of the conductor at overload relay for auxiliary contacts maximum permissible | 70 °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 | Class J |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 5 kA |
| • at 480 V | 5 kA |
| • at 600 V | 5 kA |
| certificate of suitability | UL 60947-4-1 |

**Approvals Certificates**

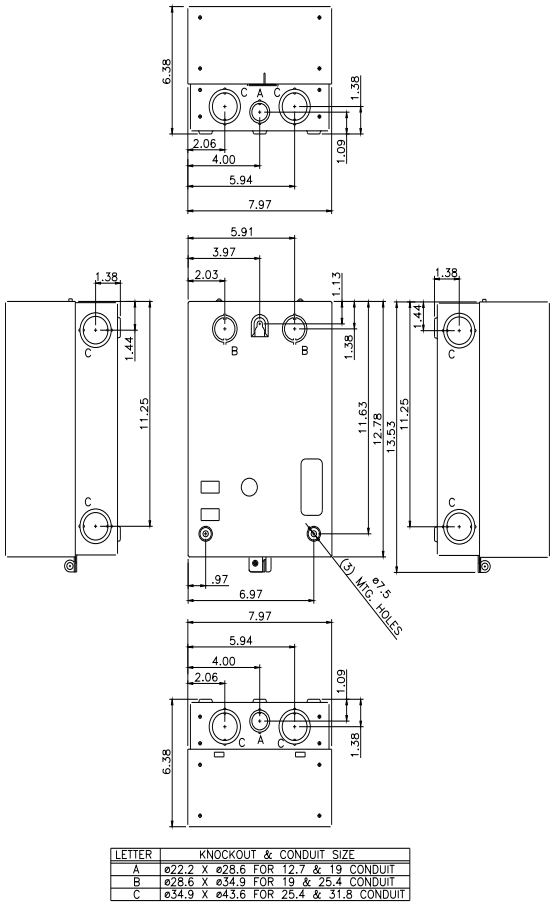
| General Product Approval | Test Certificates | other | Dangerous Good | Environment |
|---|---|---|---|---|
| EAC UL | | Confirmation | Transport Information | Environmental Confirmations |

**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=3RE4122-3BA31-4NH3
**Search Datasheet in Service&Support (Manuals)**
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3BA31-4NH3/man


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**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-3BA31-4NH3&lang=en
**Certificates/approvals**
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3BA31-4NH3/certificate




| LETTER | KNOCKOUT & CONDUIT SIZE |
|---|---|
| A | ø22.2 X ø28.6 FOR 12.7 & 19 CONDUIT |
| B | ø28.6 X ø34.9 FOR 19 & 25.4 CONDUIT |
| C | ø34.9 X ø43.6 FOR 25.4 & 31.8 CONDUIT |

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