



STARTER,FVNR,S0,3PH,THOLR,120V,N3R/4/12

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|--|----------------------------------|
| product brand name | Siemens |
| product designation | Non-reversing motor starter |
| special product feature | No factory installed accessories |
| General technical data | |
| weight [lb] | 15 lb |
| Height x Width x Depth [in] | 12 × 10 × 6 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 |
| disconnecter functionality | No |
| yielded mechanical performance [hp] for 3-phase AC motor | |
| • at 200/208 V rated value | 10 hp |
| • at 220/230 V rated value | 10 hp |
| • at 460/480 V rated value | 20 hp |
| • at 575/600 V rated value | 25 hp |
| Contactors | |
| 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 | 10 000 000 |
| 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 | 79 VA |
| apparent holding power of magnet coil at AC | 8.5 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.8 ... 1.1 |
| ON-delay time | 8 ... 40 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 | | 4.5 ... 6.3 | |
| 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 | | | |
| degree of protection NEMA rating of the enclosure | | NEMA 3/3R/4/12 enclosure | |
| design of the housing | | Dust- & watertight for outdoor use | |
| 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 (I _{cu}) | | | |
| • 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 | Environment |



[Confirmation](#)

[Environmental Con-
firmations](#)

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=3RE4122-7CA31-1GY0>

Search Datasheet in Service&Support (Manuals)

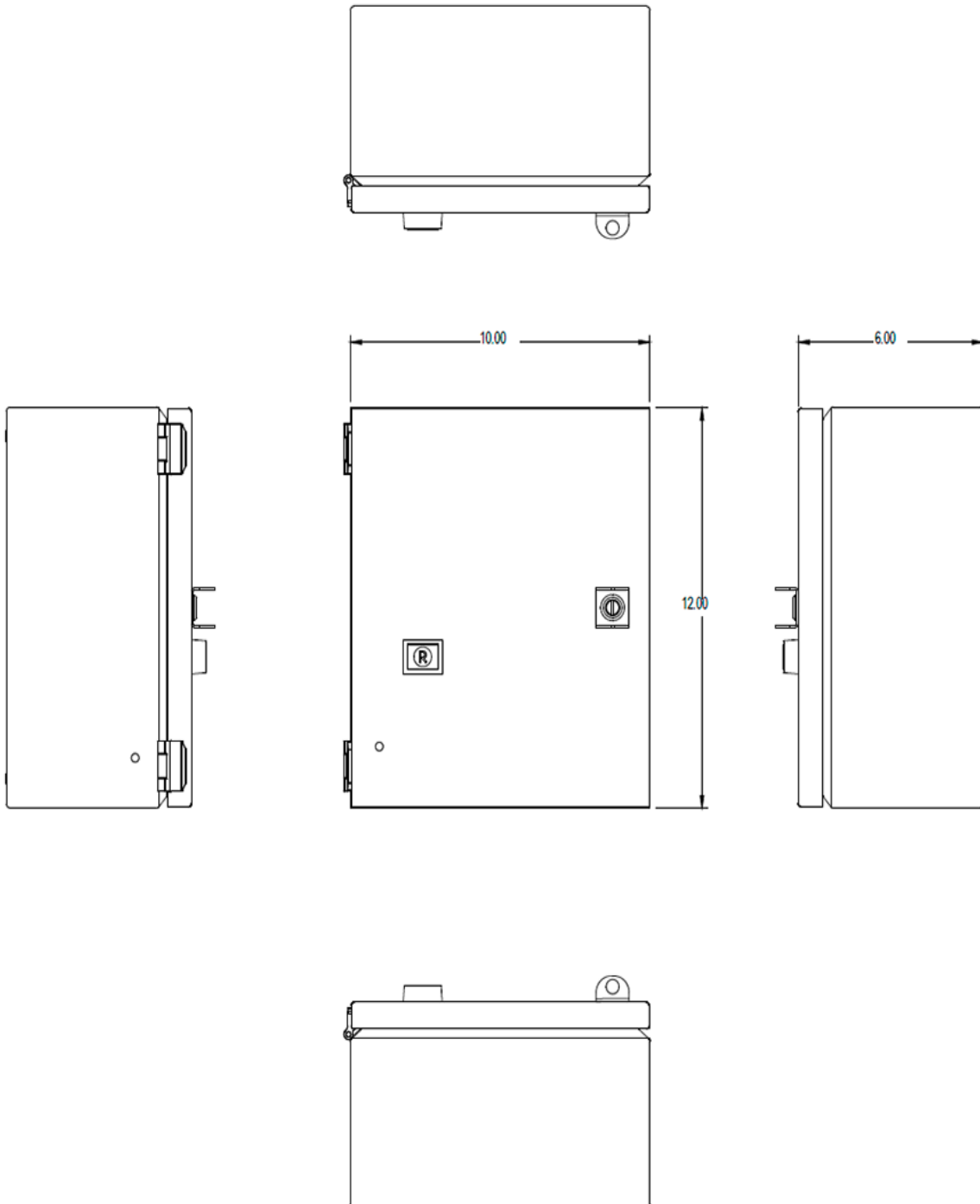
<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-1GY0/man>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-7CA31-1GY0&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-1GY0/certificate>



last modified:

4/15/2021 