



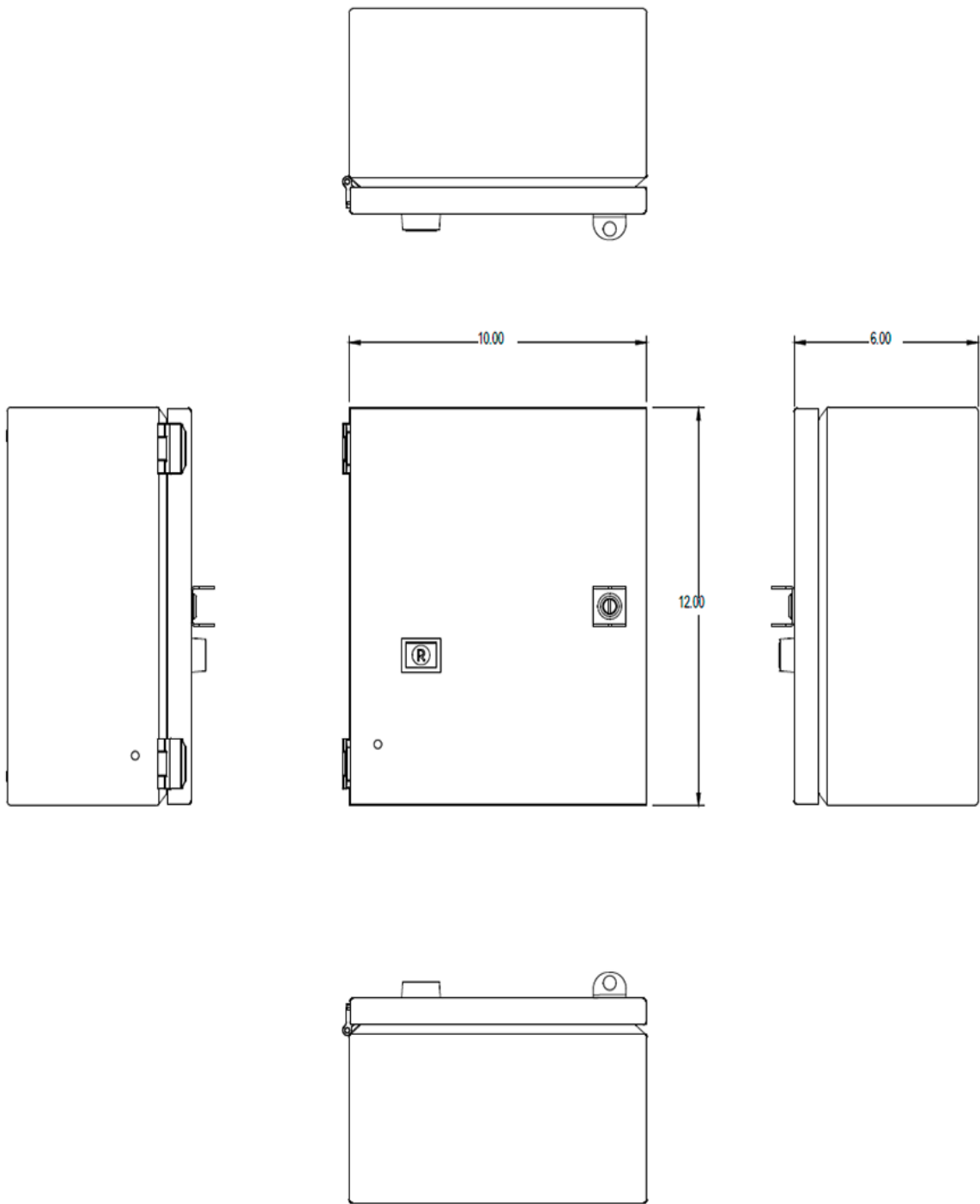
STARTER, 3RE41225CA154SY0, WITH MODS

|  |                                 |
|--|---------------------------------|
| product brand name   | Siemens                         |
| product designation  | Non-reversing motor starter     |
| special product feature  | Hand-Off-Auto Selector Switch   |
| <b>General technical data</b>  |                                 |
| 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                        |
| ambient temperature [°F] during storage                                  | -22 ... +149 °F                 |
| ambient temperature [°F] during operation                                | -4 ... +104 °F                  |
| ambient temperature during storage                                       | -30 ... +65 °C                  |
| ambient temperature during operation                                     | -20 ... +40 °C                  |
| country of origin  | Germany                         |
| <b>Power and control electronics</b>                                     |                                 |
| 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   | 24 V                            |
| • at AC at 60 Hz rated value   | 24 V                            |
| disconnecter functionality   | No                              |
| 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   | 10 hp                           |
| • at 575/600 V rated value   | 15 hp                           |
| <b>Contactor</b>   |                                 |
| number of NO contacts for main contacts                                  | 3                               |
| operating voltage at AC-3 rated value maximum                            | 600 V                           |
| mechanical service life (operating cycles) of the main contacts typical  | 10 000 000                      |
| <b>Auxiliary contact</b>   |                                 |
| 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) |
| <b>Coil</b>  |                                 |
| 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                        |
| <b>Overload relay</b>   |                                    |
| 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 / 30             |
| adjustment range of thermal overload trip unit  | 3 ... 12                           |
| 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                              |
| <b>Enclosure</b>  |                                    |
| degree of protection NEMA rating of the enclosure   | NEMA 3/3R/4/12 enclosure           |
| design of the housing   | Dust- & watertight for outdoor use |
| <b>Mounting/wiring</b>  |                                    |
| 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 (20 ... 16), 2x (18 ... 14)     |
| 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                                 |
| 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 | 1x (20 ... 14), 2x (20 ... 14)     |
| 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                                 |
| <b>Short-circuit current rating</b>   |                                    |
| 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) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 5 kA<br>5 kA<br>5 kA             |
| certificate of suitability   | UL 60947-4-1                     |
| <b>Further information</b>   |                                  |

**Industrial Controls - Product Overview (Catalogs, Brochures,...)**  
[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)  
**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=3RE4122-5CA15-4SF6>  
**Search Datasheet in Service&Support (Manuals)**  
<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-5CA15-4SF6/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=3RE4122-5CA15-4SF6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-5CA15-4SF6&lang=en)  
**Certificates/approvals**  
<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-5CA15-4SF6/certificate>





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