

STARTER,FVNR,S2,3PH,SSOLR,120V,N3R/4/12



|  |                                  |
|--|----------------------------------|
| product brand name   | Siemens                          |
| product designation  | Non-reversing motor starter      |
| special product feature  | No factory installed accessories |
| <b>General technical data</b>  |                                  |
| weight [lb]  | 21 lb                            |
| Height x Width x Depth [in]  | 14 × 12 × 8 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                          |
| <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   | 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   | 15 hp                            |
| • at 220/230 V rated value   | 15 hp                            |
| • at 460/480 V rated value   | 40 hp                            |
| • at 575/600 V rated value   | 50 hp                            |
| <b>Contactors</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), 5A@600V(P600)    |
| <b>Coil</b>  |                                  |
| apparent pick-up power of magnet coil at AC                              | 188 VA                           |
| apparent holding power of magnet coil at AC                              | 16.5 VA                          |
| operating range factor control supply voltage rated value of magnet coil | 0.8 ... 1.1                      |
| ON-delay time  | 10 ... 80 ms                     |
| OFF-delay time   | 10 ... 18 ms                     |
| <b>Overload relay</b>  |                                  |
| product function   |                                  |

|   |                                    |
|---|------------------------------------|
| <ul style="list-style-type: none"> <li>• overload protection</li> </ul>   | Yes                                |
| <ul style="list-style-type: none"> <li>• phase failure detection</li> </ul>   | Yes                                |
| <ul style="list-style-type: none"> <li>• asymmetry detection</li> </ul>   | Yes                                |
| <ul style="list-style-type: none"> <li>• ground fault detection</li> </ul>  | Yes                                |
| <ul style="list-style-type: none"> <li>• test function</li> </ul>   | Yes                                |
| <ul style="list-style-type: none"> <li>• external reset</li> </ul>  | Yes                                |
| reset function  | Manual, automatic and remote       |
| trip class  | CLASS 5 / 10 / 20 / 30             |
| adjustment range of thermal overload trip unit  | 12 ... 50                          |
| 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 <ul style="list-style-type: none"> <li>• at AC at 600 V</li> <li>• at DC at 250 V</li> </ul>                          | 5 A<br>1 A                         |
| contact rating of auxiliary contacts of overload relay according to UL  | 5A@600VAC (B600), 1A@250VDC (R300) |
| insulation voltage (Ui) <ul style="list-style-type: none"> <li>• with single-phase operation at AC rated value</li> <li>• with multi-phase operation at AC rated value</li> </ul> | 600 V<br>300 V                     |

#### 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  | Box lug                           |
| tightening torque [lbf-in] for supply   | 26 ... 39 lbf-in                  |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                             | 2x (18 ... 2), 1x (18 ... 1)      |
| 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   | Box lug                           |
| tightening torque [lbf-in] for load-side outgoing feeder  | 26 ... 39 lbf-in                  |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded            | 2x (18 ... 2), 1x (18 ... 1)      |
| 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                                |

#### 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) <ul style="list-style-type: none"> <li>• at 240 V</li> </ul> | 5 kA                             |

- at 480 V
- at 600 V

5 kA

5 kA

certificate of suitability

UL 60947-4-1

#### Approvals Certificates

| General Product Approval | Test Certificates | other | Environment |
|--------------------------|-------------------|-------|-------------|
|--------------------------|-------------------|-------|-------------|



[Confirmation](#)

[Environmental Confirmations](#)

#### Further information

**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=3RE4123-6CA35-4UY0>

**Search Datasheet in Service&Support (Manuals)**

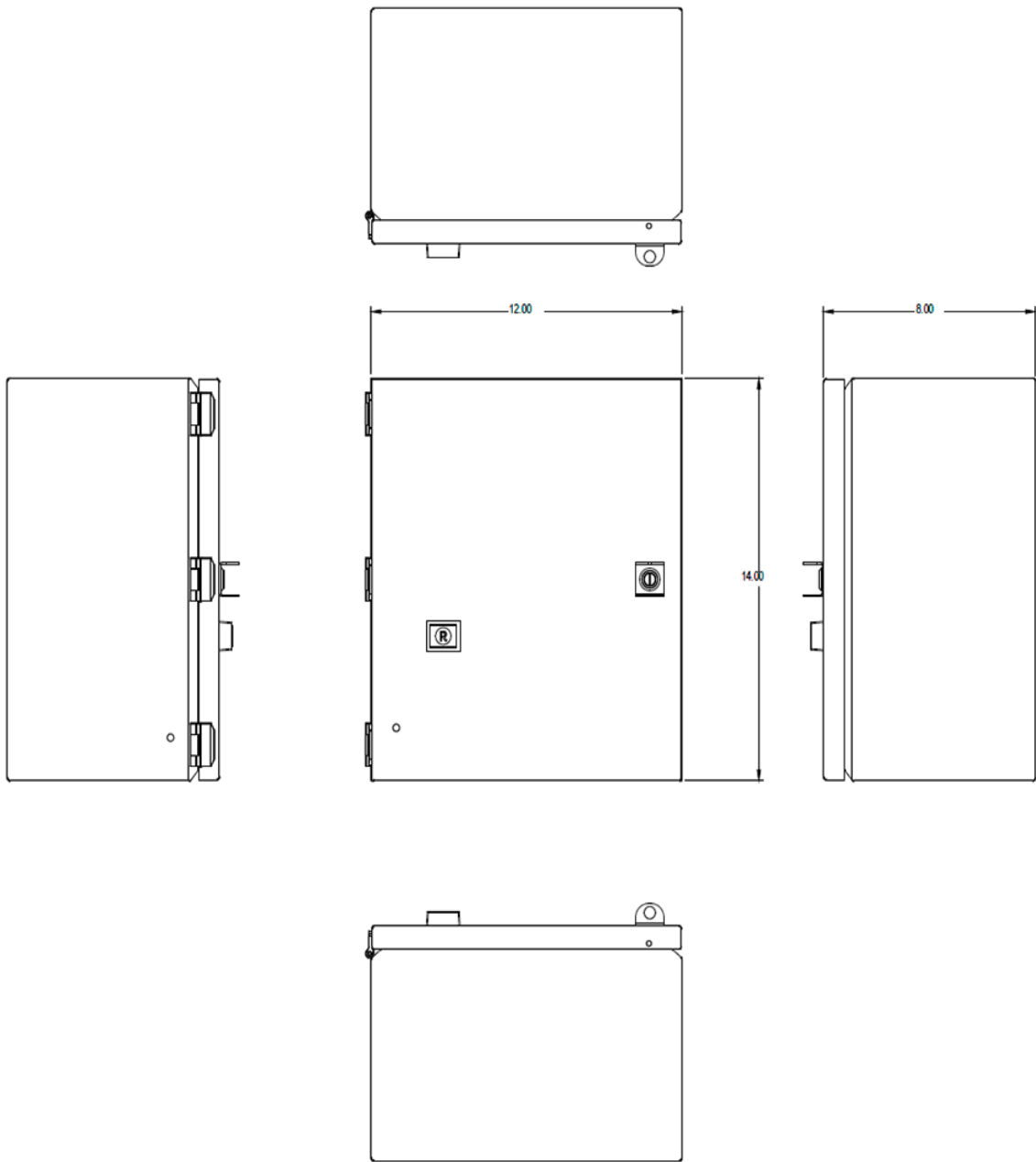
<https://support.industry.siemens.com/cs/US/en/ps/3RE4123-6CA35-4UY0/man>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RE4123-6CA35-4UY0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4123-6CA35-4UY0&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/3RE4123-6CA35-4UY0/certificate>



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