## **SIEMENS**

## **Data sheet**

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



| 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                         |
| 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                          |
| Power and control electronics   |                                  |
| number of poles for main current circuit                                | 3                                |
| type of voltage of the control supply voltage                           | AC                               |
| control supply voltage  |                                  |
| <ul> <li>at AC at 50 Hz rated value</li> </ul>                          | 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  | 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                            |
| 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 | 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                             | 67 VA                            |
| apparent holding power of magnet coil at AC                             | 6.5 VA                           |
| operating range factor control supply voltage rated value of            | 0.8 1.1                          |

| magnet coil   | 0.00   |
|---|--|
| ON-delay time   | 9 38 ms  |
| OFF-delay time  | 4 16 ms  |
| Overload relay  |  |
| product function  | Voc  |
| overload protection     toot function   | Yes  |
| • test function   | Yes<br>Yes   |
| external reset  reset function  |  |
|   | Manual, automatic and remote (with optional accessory) 23 28 |
| adjustment range of thermal overload trip unit  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  | 5A@600VAC (B600), 1A@250VDC (R300)                           |
| UL  | 3/1@0007/10 (B000), 1/1@2007B0 (1/000)                       |
| 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   | 0°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   |
|   |  |

## Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

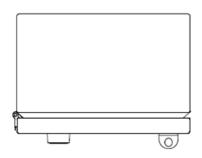
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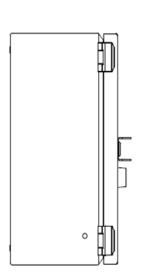
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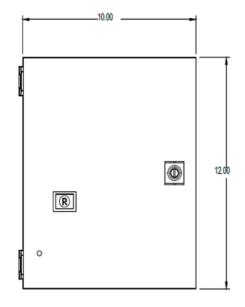
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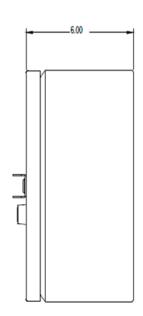
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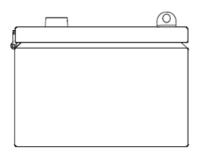
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