## **SIEMENS**

## **Data sheet**

## STARTER, FVNR, S0, 3PH, THOLR, 120VAC, NEMA 1



Figure similar

| product brand name  | Siemens                          |
|---|----------------------------------|
| product designation   | Non-reversing motor starter      |
| special product feature   | No factory installed accessories |
| General technical data  |                                  |
| weight [lb]   | 8 lb                             |
| Height x Width x Depth [in]   | 11 × 7 × 5 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                |                                  |
| <ul><li>at 200/208 V rated value</li></ul>                              | 10 hp                            |
| <ul><li>at 220/230 V rated value</li></ul>                              | 10 hp                            |
| <ul><li>at 460/480 V rated value</li></ul>                              | 20 hp                            |
| <ul><li>at 575/600 V rated value</li></ul>                              | 25 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 (switching 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   | 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  |  |
| degree of protection NEMA rating of the enclosure  | NEMA 1 standard 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 at 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 at 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 at 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 at AWG cables for auxiliary contacts single or multi-<br>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 at AWG cables for auxiliary contacts single or multi-stranded | 2x (20 16), 2x (18 14)                                 |
| temperature of the conductor at overload relay for auxiliary   | 70 °C  |

|   | _                                |
|---|----------------------------------|
| contacts maximum permissible  |                                  |
| 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 |
| breaking capacity maximum short-circuit current (Icu)                             |                                  |
| • at 240 V  | 5 kA                             |
| • at 480 V  | 5 kA                             |
| • at 600 V  | 5 kA                             |
| certificate of suitability  | UL 60947-4-1                     |
| Further information   |                                  |

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www.usa.siemens.com/iccatalog

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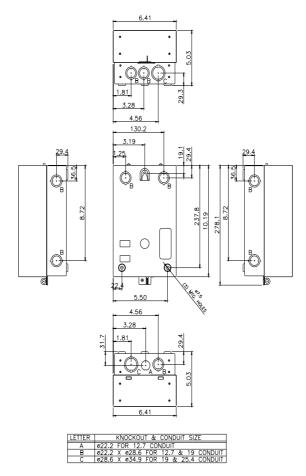
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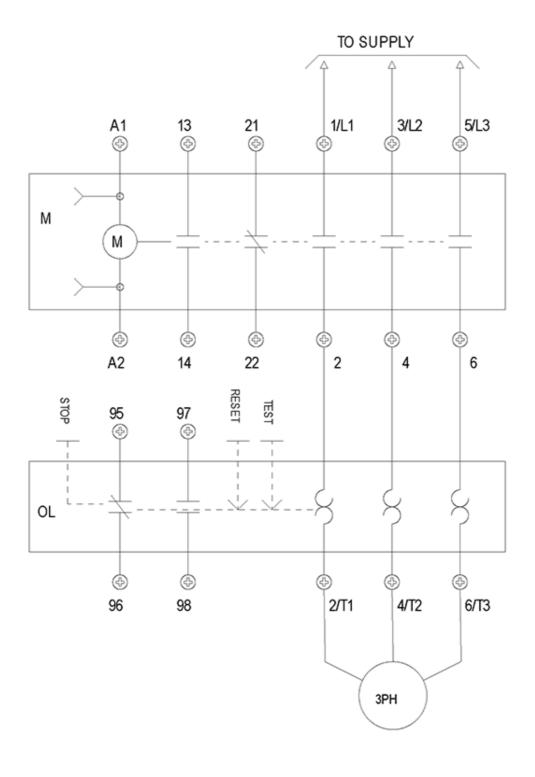
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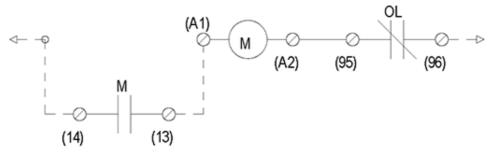
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Certificates/approvals

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