



Figure similar

|                                                              |                             |
|--------------------------------------------------------------|-----------------------------|
| Product brand name                                           | Siemens                     |
| Product designation                                          | Non-reversing motor starter |
| Special product feature                                      | Start-Stop Push Buttons     |
| General technical data                                       |                             |
| Weight [lb]                                                  | 8 lb                        |
| Height x Width x Depth [in]                                  | 11 × 7 × 5 in               |
| 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                                       |        |
| • 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 three-phase AC motor |        |
| • at 200/208 V rated value                                   | 3 hp   |
| • at 220/230 V rated value                                   | 3 hp   |
| • at 460/480 V rated value                                   | 7.5 hp |
| • at 575/600 V rated value                                   | 10 hp  |

### Contactors

|                                                                         |            |
|-------------------------------------------------------------------------|------------|
| Number of NO contacts for main contacts                                 | 3          |
| 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                              | 67 V·A      |
| Apparent holding power of magnet coil at AC                              | 6.5 V·A     |
| Operating range factor control supply voltage rated value of magnet coil | 0.8 ... 1.1 |
| Switch-on delay time                                                     | 9 ... 38 ms |
| Off-delay time                                                           | 4 ... 16 ms |

### Overload relay

|                                                               |                              |
|---------------------------------------------------------------|------------------------------|
| Product function                                              |                              |
| • Overload protection                                         | Yes                          |
| • Phase failure detection                                     | Yes                          |
| • Phase unbalance                                             | 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                                  |
| Operating 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 <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 1 standard size enclosure |
| Design of the housing                             | Indoor general purpose use     |

#### Mounting/wiring

|                                                                                                                       |                                   |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| (mounting position)                                                                                                   | Vertical                          |
| (mounting type)                                                                                                       | 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 conductors 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 conductors 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 conductors 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 at AWG conductors 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 at AWG conductors 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> <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                     |

#### 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=3RE4122-4AA15-4SB0>

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

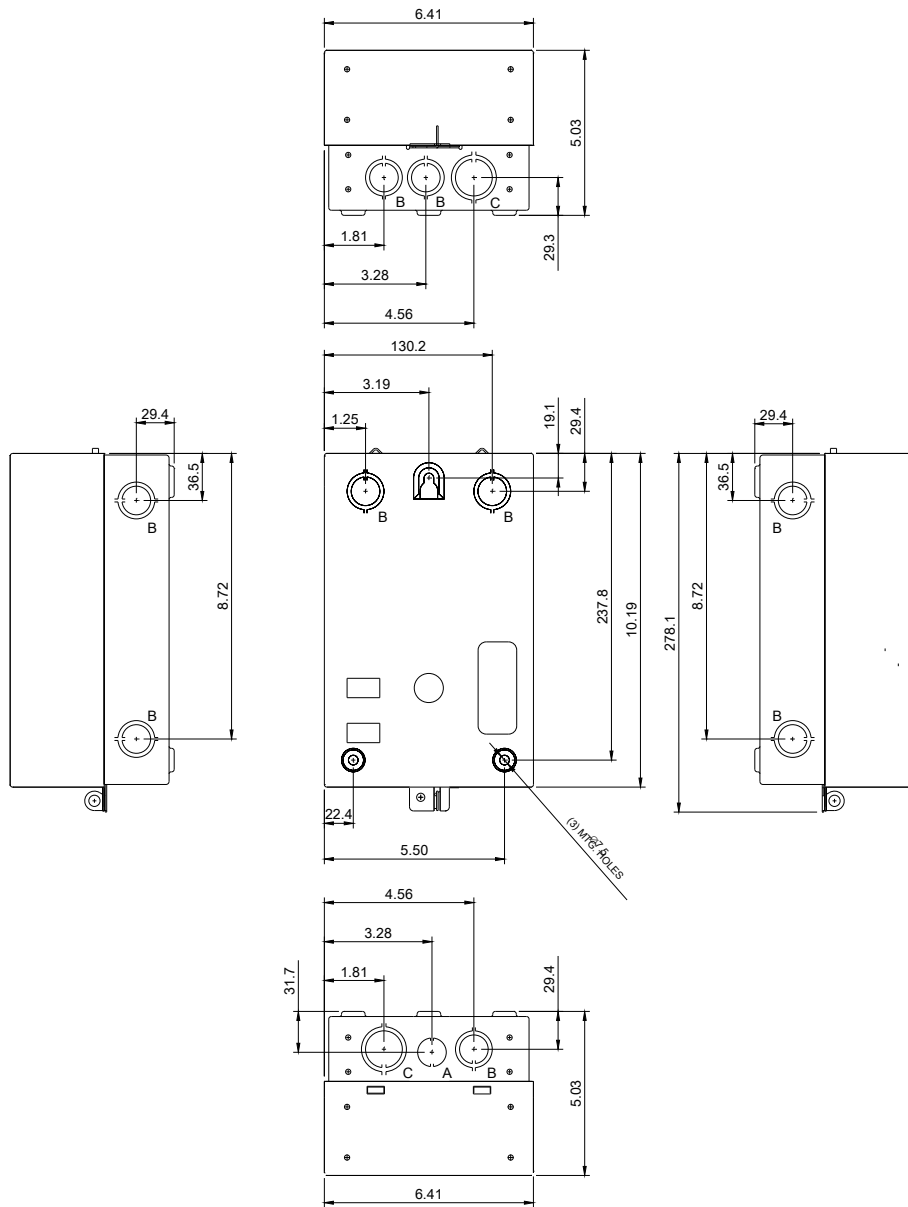
<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-4AA15-4SB0/man>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RE4122-4AA15-4SB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-4AA15-4SB0&lang=en)

##### Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-4AA15-4SB0/certificate>



| LETTER | KNOCKOUT & CONDUIT SIZE                 |
|--------|-----------------------------------------|
| A      | %%C22.2 FOR 12.7 CONDUIT                |
| B      | %%C22.2 X %%C28.6 FOR 12.7 & 19 CONDUIT |
| C      | %%C28.6 X %%C34.9 FOR 19 & 25.4 CONDUIT |

last modified:

04/02/2019