

STARTER, 3RE41226CA311JB0, WITH MODS



Figure similar

|                         |                             |
|-------------------------|-----------------------------|
| Product brand name      | Siemens                     |
| Product designation     | Non-reversing motor starter |
| Special product feature | Start-Stop Push Buttons     |

**General technical data**

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| Weight [lb]                                                  | 15 lb                    |
| Height x Width x Depth [in]                                  | 12 x 10 x 6 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                                                                                                                                                                   |                                    |
| <ul style="list-style-type: none"> <li>• at AC at 50 Hz rated value</li> <li>• at AC at 60 Hz rated value</li> </ul>                                                                     | 110 V<br>120 V                     |
| Disconnecter functionality                                                                                                                                                               | No                                 |
| Yielded mechanical performance [hp] for three-phase AC motor                                                                                                                             |                                    |
| <ul style="list-style-type: none"> <li>• at 200/208 V rated value</li> <li>• at 220/230 V rated value</li> <li>• at 460/480 V rated value</li> <li>• at 575/600 V rated value</li> </ul> | 7.5 hp<br>7.5 hp<br>15 hp<br>20 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 | 30 000 000 |

### 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 V·A      |
| Apparent holding power of magnet coil at AC                              | 8.5 V·A     |
| Operating range factor control supply voltage rated value of magnet coil | 0.8 ... 1.1 |
| Switch-on delay time                                                     | 8 ... 40 ms |
| Off-delay time                                                           | 4 ... 16 ms |

### Overload relay

|                                                                                                                            |                                                        |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Product function                                                                                                           |                                                        |
| <ul style="list-style-type: none"> <li>• Overload protection</li> <li>• Test function</li> <li>• External reset</li> </ul> | Yes<br>Yes<br>Yes                                      |
| Reset function                                                                                                             | Manual, automatic and remote (with optional accessory) |
| Adjustment range of thermal overload trip unit                                                                             | 7 ... 10                                               |
| 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) |
| <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                           |
| (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 (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 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                                 |

|                                                                                                                                  |                                |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 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 conductors 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 (I <sub>cu</sub> )                                   | 5 kA                             |
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 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=3RE4122-6CA31-1JB0>

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

<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-6CA31-1JB0/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=3RE4122-6CA31-1JB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-6CA31-1JB0&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/3RE4122-6CA31-1JB0/certificate>



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