



DIRECT START, AC 400V, SZ. S00, 7...10A,  
100V 50HZ / 100 ... 110V 60HZ SCREW CONNECTION  
FOR DIN RAIL MOUNTING,  
TYPE OF ASSIGNMENT 2, IQ = 150KA (ALSO FULFILLS  
TYPE OF ASSIGNMENT 1) 1NO (CONTACTOR) COIL  
WITH RC ELEMENT ON FRONT PLUGGED ON  
(CONTACTOR) 1NO+1NC (CIRCUIT BREAKER,  
TRANSVERSE)

### Allgemeine technische Daten:

|                                                               |    |                             |
|---------------------------------------------------------------|----|-----------------------------|
| product brand name                                            |    | SIRIUS                      |
| Product designation                                           |    | non-fused load feeders 3RA2 |
| Size of the load feeder                                       |    | S00                         |
| Number of poles / for main current circuit                    |    | 3                           |
| Installation altitude / at a height over sea level / maximum  | m  | 2,000                       |
| Product function                                              |    |                             |
| • short circuit protection                                    |    | Yes                         |
| • overload protection                                         |    | Yes                         |
| • phase disturbance recognition                               |    | Yes                         |
| Product component                                             |    |                             |
| • trip indicator                                              |    | No                          |
| • auxiliary switch                                            |    | Yes                         |
| Product extension / auxiliary switch                          |    | Yes                         |
| Design of display / for switching status                      |    | Switch setting              |
| Insulation voltage / with degree of pollution 3 / rated value | V  | 690                         |
| Impulse voltage resistance / rated value                      | kV | 6                           |
| Protection class IP                                           |    |                             |
| • on the front                                                |    | IP20                        |
| Protection against electrical shock                           |    | finger-safe                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------|
| <b>Shock resistance / according to IEC 60068-2-27</b>                                                                                                                                                                                                                                                                                                                                                             |    | 6g / 11 ms                                                                                          |
| <b>maximum permissible voltage for safe isolation in networks with non-grounded star point</b>                                                                                                                                                                                                                                                                                                                    |    |                                                                                                     |
| <b>Ambient temperature</b> <ul style="list-style-type: none"> <li>during transport</li> <li>during storage</li> <li>during operating</li> </ul>                                                                                                                                                                                                                                                                   | °C | -50 ... +80<br>-50 ... 80<br>-20 ... 60                                                             |
| <b>Manufacturer article number</b> <ul style="list-style-type: none"> <li>of the circuit-breakers included in the scope of supply</li> <li>of the contactor included in the scope of supply</li> <li>of the RS applied assembly kit</li> <li>of the link module included in the scope of supply</li> <li>of the busbar adapter included in the scope of supply</li> <li>of the RH applied assembly kit</li> </ul> |    | <a href="#">3RV2011-1JA15</a><br><a href="#">3RT2016-1EG61</a><br><br><a href="#">3RA1921-1DA00</a> |

| Hauptstromkreis:                                                                                                                                                    |   |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Operating current / rated value</b>                                                                                                                              | A | 16                      |
| <b>Mechanical operating cycles as operating time / of the auxiliary contacts / typical</b>                                                                          |   | 30,000,000              |
| <b>Derating factor for rated value of the operational current</b>                                                                                                   |   |                         |
| <b>Operating voltage / rated value</b>                                                                                                                              | V | 690                     |
| <b>Voltage type / for main circuit</b>                                                                                                                              |   | AC                      |
| <b>Frequency</b>                                                                                                                                                    |   | -                       |
| <b>Service power / at AC-3</b> <ul style="list-style-type: none"> <li>at 400 V / rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> | W | 4,000<br>5,500<br>7,500 |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>                                                                                                         | A | 8.5                     |
| <b>Type of assignment</b>                                                                                                                                           |   | 1                       |

| Steuerstromkreis/ Ansteuerung:                                                                                 |     |             |
|----------------------------------------------------------------------------------------------------------------|-----|-------------|
| <b>Voltage type / for auxiliary and control circuit</b>                                                        |     | AC          |
| <b>Control supply voltage / at 60 Hz / at AC</b> <ul style="list-style-type: none"> <li>rated value</li> </ul> | V   | 100 ... 110 |
| <b>Apparent holding power / of the solenoid / for AC</b>                                                       | V·A | 4.8         |

| Hilfsstromkreis:                                              |  |            |
|---------------------------------------------------------------|--|------------|
| <b>Design of the auxiliary switch</b>                         |  | transverse |
| <b>Number of NC contacts / for auxiliary contacts</b>         |  | 1          |
| <b>Number of NO contacts / for auxiliary contacts</b>         |  | 2          |
| <b>Number of changeover contacts / for auxiliary contacts</b> |  | 0          |

| Schutz-/Überwachungsfunktion:                                                                                                                                  |   |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
| Design of the overload circuit breaker                                                                                                                         |   | thermal (bimetallic) |
| Trip class                                                                                                                                                     |   | CLASS 10             |
| Adjustable response current / of the current-dependent overload release                                                                                        | A | 7 ... 10             |
| Design of the short-circuit trip                                                                                                                               |   | magnetic             |
| Conditional short-circuit current (I <sub>q</sub> )                                                                                                            | A | 153,000              |
| <ul style="list-style-type: none"> <li>at 400 V / according to IEC 60947-4-1 / rated value</li> <li>at 690 V according to IEC 60947-4-1 rated value</li> </ul> |   | -                    |
| Varification of suitability / ATEX                                                                                                                             |   | Yes                  |

| Sicherheitsrelevante Kenngrößen:                                                                |   |           |
|-------------------------------------------------------------------------------------------------|---|-----------|
| Proportion of dangerous failures                                                                | % | 73        |
| <ul style="list-style-type: none"> <li>with high demand rate / according to SN 31920</li> </ul> |   |           |
| B10 value / with high demand rate / according to SN 31920                                       |   | 1,000,000 |

| Einbau/ Befestigung/ Abmessungen:                           |    |                                                              |
|-------------------------------------------------------------|----|--------------------------------------------------------------|
| Mounting type                                               |    | screw and snap-on mounting onto 35 mm standard mounting rail |
| mounting position                                           |    | vertical                                                     |
| Depth                                                       | mm | 155.1                                                        |
| Height                                                      | mm | 167.2                                                        |
| Width                                                       | mm | 45                                                           |
| Distance, to be maintained, to the ranks assembly           |    |                                                              |
| <ul style="list-style-type: none"> <li>upwards</li> </ul>   | mm | 20                                                           |
| <ul style="list-style-type: none"> <li>forwards</li> </ul>  | mm | 0                                                            |
| <ul style="list-style-type: none"> <li>sidewards</li> </ul> |    | 0                                                            |
| <ul style="list-style-type: none"> <li>backwards</li> </ul> |    | 0                                                            |
| <ul style="list-style-type: none"> <li>downwards</li> </ul> |    | 30                                                           |

| Anschlüsse/ Klemmen:                                                                        |  |                                                          |
|---------------------------------------------------------------------------------------------|--|----------------------------------------------------------|
| Arrangement of electrical connectors / for main current circuit                             |  | from the top                                             |
| Design of the electrical connection                                                         |  |                                                          |
| <ul style="list-style-type: none"> <li>for main current circuit</li> </ul>                  |  | screw-type terminals                                     |
| <ul style="list-style-type: none"> <li>for auxiliary and control current circuit</li> </ul> |  | screw-type terminals                                     |
| Type of the connectable conductor cross-section for main contacts                           |  |                                                          |
| <ul style="list-style-type: none"> <li>solid or multi-stranded</li> </ul>                   |  | 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>finely stranded</li> </ul>                           |  |                                                          |
| <ul style="list-style-type: none"> <li>with conductor end processing</li> </ul>             |  | 2x (0.5 ... 2.5 mm <sup>2</sup> )                        |
| Type of the connectable conductor cross-section for auxiliary contacts                      |  |                                                          |

|                                                                                                                                                                                     |     |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• solid or multi-stranded</li> <li>• finely stranded</li> <li>• with conductor end processing</li> </ul>                                     |     | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ) |
| <b>Type of the connectable conductor cross-section / for AWG conductors</b> <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul> |     | 2x (18 ... 14), 2x 12<br>2x (20 ... 16), 2x (18 ... 14)               |
| <b>Tightening torque / for main contacts</b> <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>                                                          | N·m | 0.8 ... 1.2                                                           |
| <b>Design of the thread of the connection screw for main contacts</b>                                                                                                               |     |                                                                       |
| M3                                                                                                                                                                                  | M3  |                                                                       |
| <b>Tightening torque / for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>                                                     | N·m | 0.8 ... 1.2                                                           |
| <b>Design of the thread of the connection screw of the auxiliary and control pins</b>                                                                                               |     |                                                                       |
| M3                                                                                                                                                                                  | M3  |                                                                       |
| <b>Dimension de la tête de tournevis</b>                                                                                                                                            |     | Pozidriv 2                                                            |

#### UL/CSA Bemessungsdaten:

|                                                                                                                                                                                                                                                                                |    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| <b>yielded mechanical performance [hp] / for three-phase squirrel cage motors</b> <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> | hp | 2   |
|                                                                                                                                                                                                                                                                                | hp | 3   |
|                                                                                                                                                                                                                                                                                |    | 5   |
|                                                                                                                                                                                                                                                                                |    | 7.5 |
| <b>Full-load current (FLA) / for 3-phase motor</b> <ul style="list-style-type: none"> <li>• at 480 V / rated value</li> </ul>                                                                                                                                                  | A  | 7.6 |

#### Approbationen/ Zertifikate:

|                                 |                                       |                                  |
|---------------------------------|---------------------------------------|----------------------------------|
| <b>General Product Approval</b> | <b>For use in hazardous locations</b> | <b>Declaration of Conformity</b> |
|---------------------------------|---------------------------------------|----------------------------------|



|                          |                          |
|--------------------------|--------------------------|
| <b>Test Certificates</b> | <b>Shipping Approval</b> |
|--------------------------|--------------------------|

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



#### other

[other](#)

[Environmental Confirmations](#)

## Weitere Informationen:

### Information- and Downloadcenter (Kataloge, Broschüren,...)

<http://www.siemens.de/industrial-controls/catalogs>

### Industry Mall (Online-Bestellsystem)

<http://www.siemens.de/industrial-controls/mall>

### CAX-Online-Generator

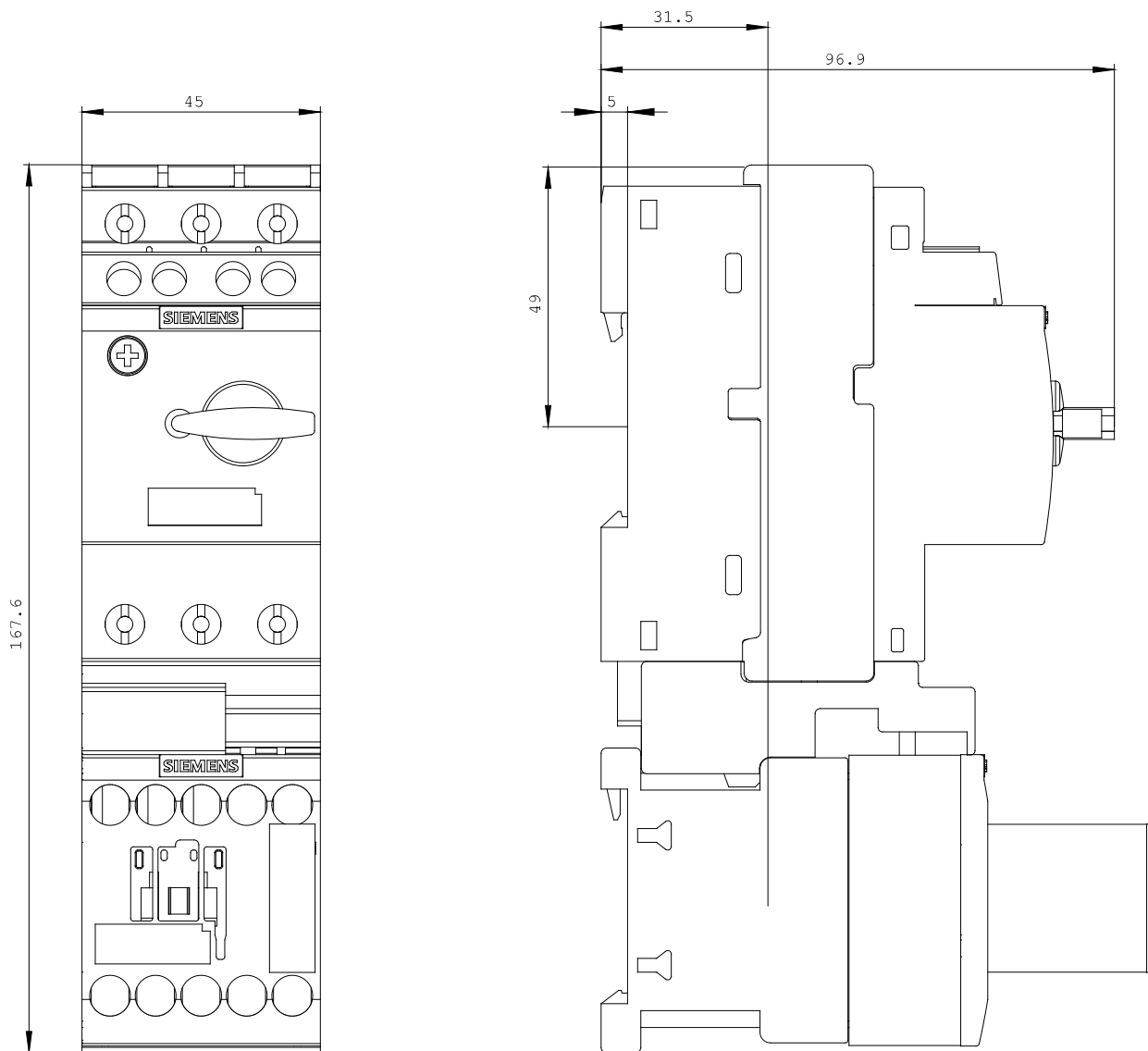
<http://www.siemens.com/cax>

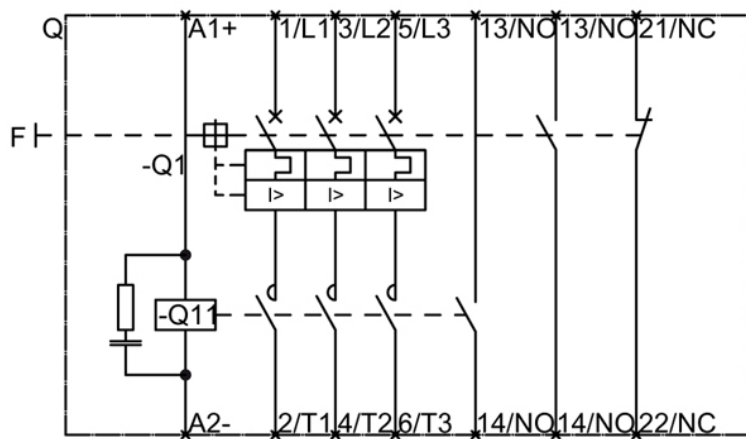
### Service&Support (Handbücher, Betriebsanleitungen, Zertifikate, Kennlinien, FAQs,...)

<http://support.automation.siemens.com/WW/view/de/3RA2115-1JA16-1EG6/all>

### Bilddatenbank (Produktfotos, 2D-Maßzeichnungen, 3D-Modelle, Geräteschaltpläne, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2115-1JA16-1EG6](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2115-1JA16-1EG6)





letzte Änderung:

Aug 4, 2014