



LOAD FEEDER FUSELESS DIRECT START,  
AC 400V, SZ. S0, 27...32A,  
AC 230V SPRING-LOADED CONNECTION FOR BUSBAR  
SYSTEMS 60MM TYPE OF COORD. 2, IQ = 150KA (ALSO  
ACHIEVES TYPE OF COORD.1) 1NO+1NC (CONTACTOR)

### Allgemeine technische Daten:

|                                                               |    |                             |
|---------------------------------------------------------------|----|-----------------------------|
| product brand name                                            |    | SIRIUS                      |
| Product designation                                           |    | non-fused load feeders 3RA2 |
| Size of the load feeder                                       |    | S0                          |
| 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                                            |    | No                          |
| 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="#">3RV2021-4EA20</a><br><a href="#">3RT2027-2AP00</a><br><br><a href="#">3RA2921-2AA00</a><br><a href="#">8US1251-5NT11</a> |

| Hauptstromkreis:                                                                                                                                                    |   |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------|
| <b>Operating current / rated value</b>                                                                                                                              | A | 32                         |
| <b>Mechanical operating cycles as operating time / of the auxiliary contacts / typical</b>                                                                          |   | 10,000,000                 |
| <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 | 15,000<br>18,500<br>30,000 |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>                                                                                                         | A | 29                         |
| <b>Type of assignment</b>                                                                                                                                           |   | 2                          |

| Steuerstromkreis/ Ansteuerung:                           |     |     |
|----------------------------------------------------------|-----|-----|
| <b>Voltage type / for auxiliary and control circuit</b>  |     | AC  |
| <b>Apparent holding power / of the solenoid / for AC</b> | V·A | 9.8 |

| Hilfsstromkreis:                                              |  |   |
|---------------------------------------------------------------|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b>         |  | 1 |
| <b>Number of NO contacts / for auxiliary contacts</b>         |  | 1 |
| <b>Number of changeover contacts / for auxiliary contacts</b> |  | 0 |

| Schutz-/Überwachungsfunktion:                 |  |                      |
|-----------------------------------------------|--|----------------------|
| <b>Design of the overload circuit breaker</b> |  | thermal (bimetallic) |
| <b>Trip class</b>                             |  | CLASS 10             |

|                                                                                                                                                                                                                                                                                               |        |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|
| <b>Adjustable response current / of the current-dependent overload release</b>                                                                                                                                                                                                                | A      | 27 ... 32                 |
| <b>Design of the short-circuit trip</b>                                                                                                                                                                                                                                                       |        | magnetic                  |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b><br><ul style="list-style-type: none"> <li>• at 400 V / according to IEC 60947-4-1 / rated value</li> <li>• at 500 V / according to IEC 60947-4-1 / rated value</li> <li>• at 690 V according to IEC 60947-4-1 rated value</li> </ul> | A<br>A | 153,000<br>5,000<br>2,000 |
| <b>Varification of suitability / ATEX</b>                                                                                                                                                                                                                                                     |        | Yes                       |

#### Sicherheitsrelevante Kenngrößen:

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

#### Einbau/ Befestigung/ Abmessungen:

|                                                                                                                                                                                                           |          |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| <b>Mounting type</b>                                                                                                                                                                                      |          | for snapping onto 60 mm busbar systems |
| <b>mounting position</b>                                                                                                                                                                                  |          | vertical                               |
| <b>Depth</b>                                                                                                                                                                                              | mm       | 164.9                                  |
| <b>Height</b>                                                                                                                                                                                             | mm       | 260                                    |
| <b>Width</b>                                                                                                                                                                                              | mm       | 45                                     |
| <b>Distance, to be maintained, to the ranks assembly</b><br><ul style="list-style-type: none"> <li>• upwards</li> <li>• forwards</li> <li>• sideways</li> <li>• backwards</li> <li>• downwards</li> </ul> | mm<br>mm | 30<br>10<br>0<br>0<br>30               |

#### Anschlüsse/ Klemmen:

|                                                                                                                                                                                                                                                                                                                  |  |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b>                                                                                                                                                                                                                                           |  | from front                                                                                           |
| <b>Design of the electrical connection</b><br><ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                  |  | spring-loaded terminals<br>spring-loaded terminals                                                   |
| <b>Type of the connectable conductor cross-section for main contacts</b><br><ul style="list-style-type: none"> <li>• solid or multi-stranded</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> </ul> |  | 2x (1 ... 10 mm <sup>2</sup> )<br><br>2x (1 ... 6 mm <sup>2</sup> )<br>2x (1 ... 6 mm <sup>2</sup> ) |
| <b>Type of the connectable conductor cross-section for auxiliary contacts</b><br><ul style="list-style-type: none"> <li>• solid or multi-stranded</li> <li>• finely stranded</li> </ul>                                                                                                                          |  | 2x (0,5 ... 4 mm <sup>2</sup> )                                                                      |

|                                                                                                                                                                                     |                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul>                                                        | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 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 ... 8)<br>2x (20 ... 16), 2x (18 ... 14)                        |
| <b>Design of the thread of the connection screw for main contacts</b>                                                                                                               |                                                                        |
| <b>Design of the thread of the connection screw of the auxiliary and control pins</b>                                                                                               |                                                                        |

#### UL/CSA Bemessungsdaten:

|                                                                                                                                                                                                                                          |    |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------|
| <b>yielded mechanical performance [hp] / for three-phase squirrel cage motors</b> <ul style="list-style-type: none"> <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 | 10<br>20<br>25 |
| <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  | 14             |

#### Approbationen/ Zertifikate:

| General Product Approval                                                                   | For use in hazardous locations                                                                        | Declaration of Conformity                                                                         | Test Certificates                                                                             |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>CSA | <br>UL             | <br>EG-Konf. | <a href="#">Type Test Certificates/Test Report</a>                                            |
| <br>EAC | <br>ATEX           |                                                                                                   |                                                                                               |
| Shipping Approval                                                                          |                                                                                                       |                                                                                                   |                                                                                               |
| <br>ABS | <br>BUREAU VERITAS | <br>DNV        | <br>GL     |
|                                                                                            |                                                                                                       | <br>PRS      | <br>RINA |
| other                                                                                      |                                                                                                       |                                                                                                   |                                                                                               |
| <a href="#">Declaration of Conformity</a>                                                  | <a href="#">other</a>                                                                                 | <a href="#">Environmental Confirmations</a>                                                       |                                                                                               |

#### Weitere Informationen:

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

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

##### Industry Mall (Online-Bestellsystem)

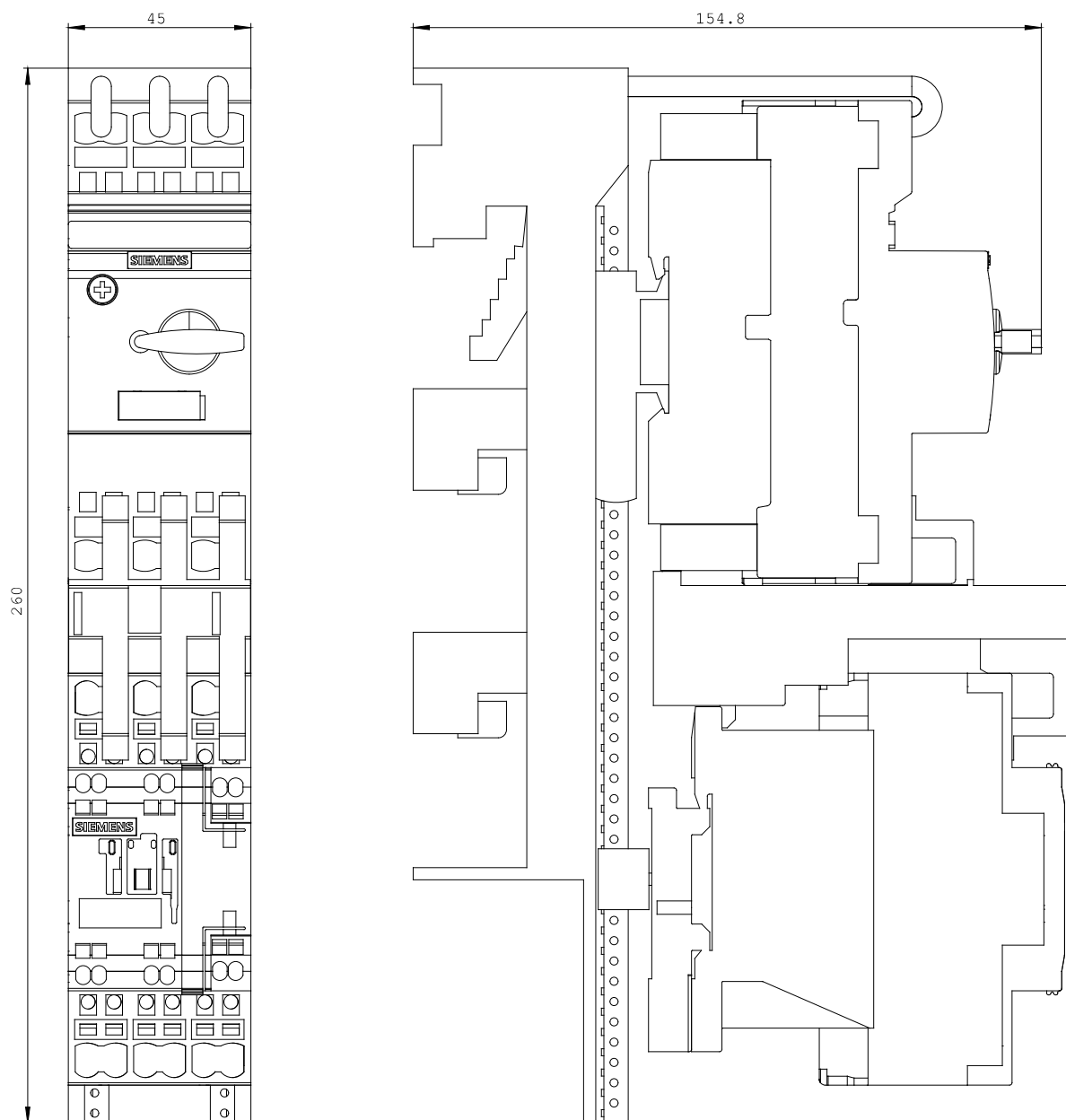
<http://www.siemens.de/industrial-controls/mall>

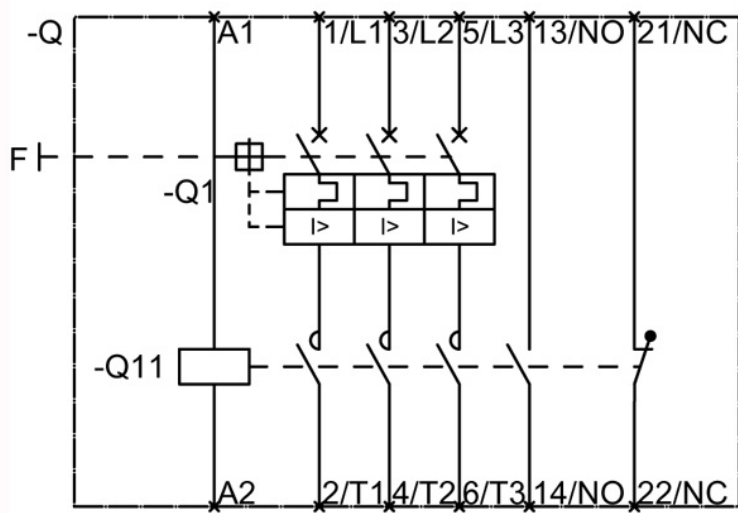
##### CAX-Online-Generator

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

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

<http://support.automation.siemens.com/WW/view/de/3RA2120-4EH27-0AP0/all>





letzte Änderung:

Aug 4, 2014