



LOAD FEEDER FUSELESS DIRECT START,  
AC 400V, SZ S00 3.5. . .5A,  
DC 24V SPRING-LOADED CONNECTION FOR BUSBAR  
SYSTEMS 60MM TYPE OF COORDINATION 1,  
IQ = 150KA 1NO (CONTACTOR)

### 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                                            |    | 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="#">3RV2011-1FA20</a><br><a href="#">3RT2015-2BB41</a><br><br><a href="#">3RA2911-2AA00</a><br><a href="#">8US1251-5DT11</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 | 1,500<br>2,200<br>3,000 |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>                                                                                                         | A | 3.6                     |
| <b>Type of assignment</b>                                                                                                                                           |   | 1                       |

| Steuerstromkreis/ Ansteuerung:                          |   |    |
|---------------------------------------------------------|---|----|
| <b>Voltage type / for auxiliary and control circuit</b> |   | DC |
| <b>Holding power / of the solenoid / for DC</b>         | W | 4  |

| Hilfsstromkreis:                                              |  |   |
|---------------------------------------------------------------|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b>         |  | 0 |
| <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 | 3.5 ... 5 |
| <b>Design of the short-circuit trip</b>                                        |   | magnetic  |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b>                       |   |           |
| • at 400 V / according to IEC 60947-4-1 / rated value                          | A | 153,000   |
| • at 500 V / according to IEC 60947-4-1 / rated value                          | A | 100,000   |
| • at 690 V according to IEC 60947-4-1 rated value                              |   | 4,000     |
| <b>Varification of suitability / ATEX</b>                                      |   | Yes       |

#### Sicherheitsrelevante Kenngrößen:

|                                                                  |   |           |
|------------------------------------------------------------------|---|-----------|
| <b>Proportion of dangerous failures</b>                          |   |           |
| • with high demand rate / according to SN 31920                  | % | 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 | 155.1                                  |
| <b>Height</b>                                            | mm | 260                                    |
| <b>Width</b>                                             | mm | 45                                     |
| <b>Distance, to be maintained, to the ranks assembly</b> |    |                                        |
| • upwards                                                | mm | 20                                     |
| • forwards                                               | mm | 0                                      |
| • sideways                                               |    | 0                                      |
| • backwards                                              |    | 0                                      |
| • downwards                                              |    | 30                                     |

#### Anschlüsse/ Klemmen:

|                                                                               |  |                                             |
|-------------------------------------------------------------------------------|--|---------------------------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b>        |  | from front                                  |
| <b>Design of the electrical connection</b>                                    |  |                                             |
| • for main current circuit                                                    |  | spring-loaded terminals                     |
| • for auxiliary and control current circuit                                   |  | spring-loaded terminals                     |
| <b>Type of the connectable conductor cross-section for main contacts</b>      |  |                                             |
| • solid or multi-stranded                                                     |  | 2x (0,5 ... 4 mm²)                          |
| • finely stranded                                                             |  |                                             |
| • with conductor end processing                                               |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) |
| • without conductor final cutting                                             |  | 2x (0.5 ... 2.5 mm²)                        |
| <b>Type of the connectable conductor cross-section for auxiliary contacts</b> |  |                                             |
| • solid or multi-stranded                                                     |  | 2x (0,5 ... 4 mm²)                          |
| • finely stranded                                                             |  |                                             |

|                                                                                                                              |                                                  |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <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> )                |
| <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 (20 ... 12)<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:

##### yielded mechanical performance [hp] / for three-phase squirrel cage motors

- at 200/208 V / rated value
- at 220/230 V / rated value
- at 460/480 V rated value
- at 575/600 V rated value

|    |   |
|----|---|
| hp | 1 |
| hp | 1 |
|    | 3 |
|    | 3 |

##### Full-load current (FLA) / for 3-phase motor

- at 480 V / rated value

|   |     |
|---|-----|
| A | 4.8 |
|---|-----|

#### Approbationen/ Zertifikate:

##### General Product Approval

##### For use in hazardous locations

##### Declaration of Conformity



#### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



#### other

[Declaration of Conformity](#)

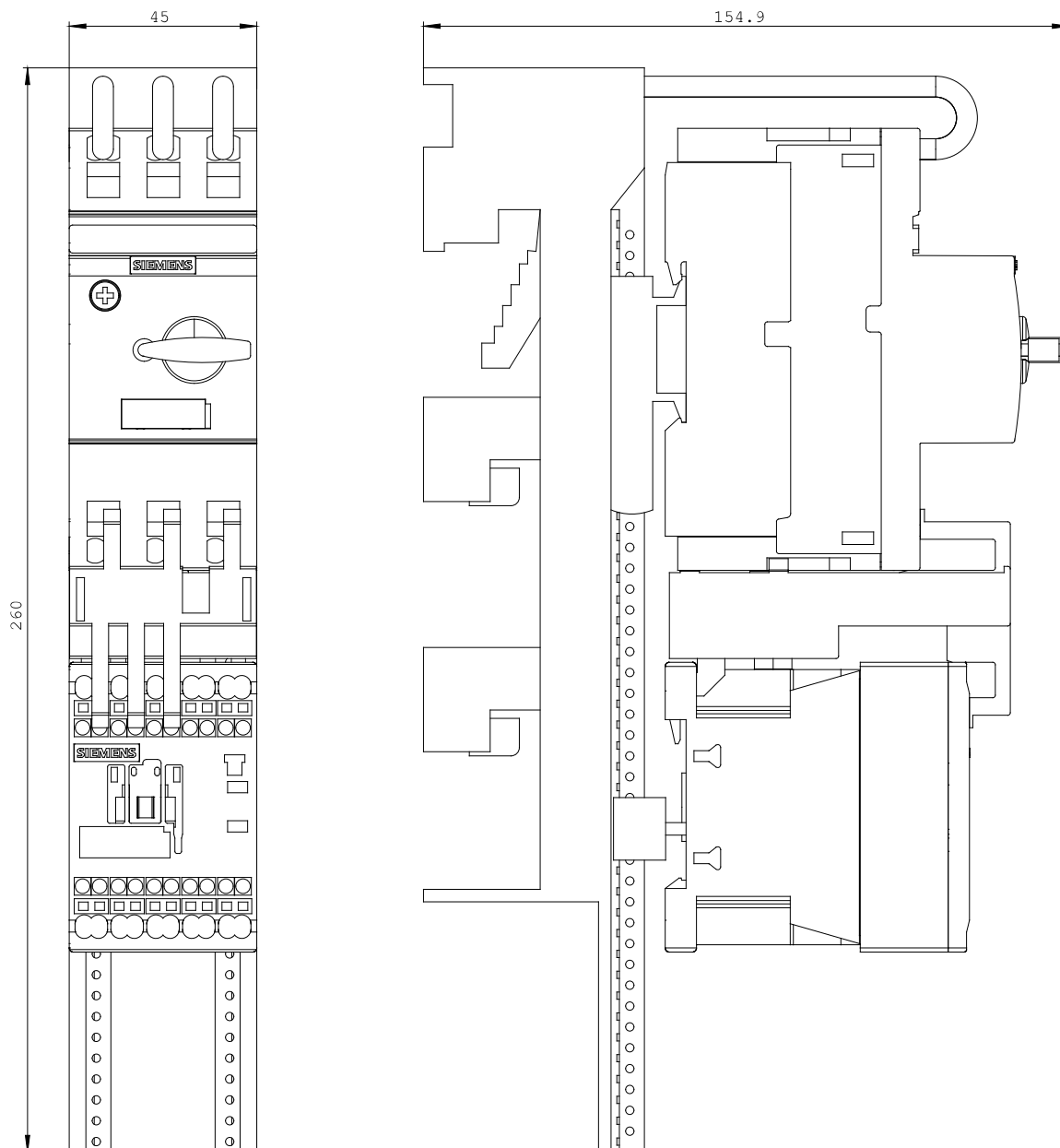
[other](#)

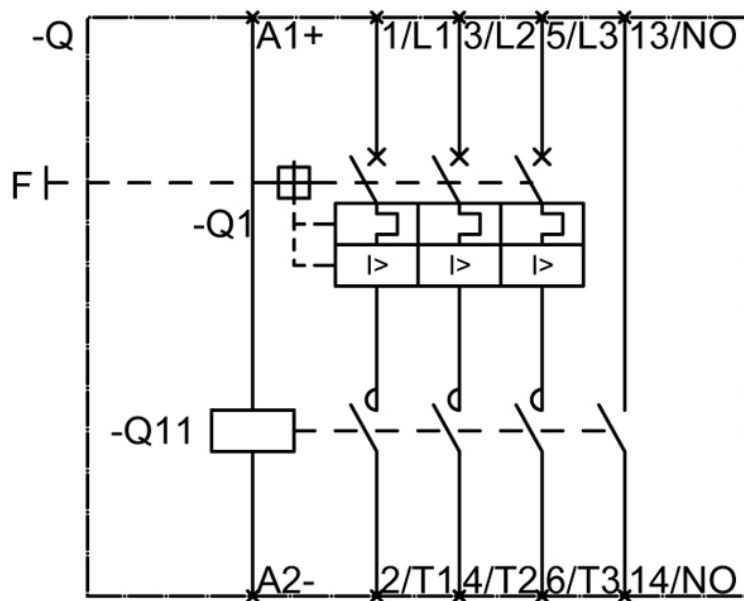
[Environmental Confirmations](#)

#### Weitere Informationen:

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

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





letzte Änderung:

Aug 4, 2014