



LOAD FEEDER FUSELESS REVERSING DUTY,
AC 400V, SZ S0, 20. . .25A,
DC 24V SPRING-LOADED CONNECTION FOR BUSBAR
SYSTEMS 60MM TYPE OF COORDINATION 2,
IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1)
1NO+1NC (CONTACTOR)

General technical data:

| | | |
|--|----|-----------------------------|
| Product brand name | | SIRIUS |
| product designation | | non-fused load feeders 3RA2 |
| Design of the product | | reversing starter |
| Size of the load feeder | | S0 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Insulation voltage / rated value | V | 690 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature | | |
| • during transport | °C | -55 ... 80 |
| • during storage | °C | -55 ... 80 |
| • during operating | °C | -20 ... 60 |
| Impulse voltage resistance / rated value | kV | 6 |
| Active power loss / per conductor / typical | W | 4.3 |
| Item designation | | |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | Q |
| • according to DIN EN 61346-2 | | Q |
| Type of assignment | | 2 |

| | | |
|---|---|-------------------------------|
| Mechanical operating cycles as operating time / of the contactor | | |
| • typical | | 10,000,000 |
| Manufacturer article number | | |
| • of the circuit-breakers included in the scope of supply | | 3RV2021-4DA20 |
| • of the contactor included in the scope of supply | | 3RT2027-2BB40 |
| • of the RS applied assembly kit | | 8US1250-5AT10 |
| • of the link module included in the scope of supply | | 3RA2921-2AA00 |
| • of the busbar adapter included in the scope of supply | | 8US1251-5NT11 |
| Design of the switching contact | | mechanical |
| Type of the motor protection | | bimetal |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 20 ... 25 |

| | | |
|--|--|----|
| Communication: | | |
| Product function / bus-communication | | No |
| Protocol / will be supported | | |
| • AS interface protocol | | No |
| • PROFIBUS DP protocol | | No |
| • PROFINET protocol | | No |
| Product extension / function module for communication | | No |

| | | |
|--|-----|--------|
| Main circuit: | | |
| Number of poles / for main current circuit | | 3 |
| Number of NC contacts / for main contacts | | 0 |
| Number of NO contacts / for main contacts | | 3 |
| Operating voltage / at AC-3 / rated value / maximum | V | 690 |
| Operating current | | |
| • at AC-1 / at 400 V / rated value | A | 25 |
| • at AC-2 / at 400 V / rated value | A | 22 |
| • at AC-3 / at 400 V / rated value | A | 22 |
| • at AC-4 / at 400 V / rated value | A | 22 |
| Service power | | |
| • at AC-2 / at 400 V / rated value | W | 11,000 |
| • at AC-3 | | |
| • at 400 V / rated value | W | 11,000 |
| • at 500 V / rated value | W | 15,000 |
| • at 690 V / rated value | W | 22,000 |
| • at AC-4 / at 400 V / rated value | W | 11,000 |
| Off-load operating frequency | 1/h | 10,000 |
| Frequency of operation | | |

- at AC-1 / according to IEC 60947-6-2 / maximum
- at AC-2 / according to IEC 60947-6-2 / maximum
- at AC-3 / according to IEC 60947-6-2 / maximum
- at AC-4 / according to IEC 60947-6-2 / maximum

| | |
|-----|-------|
| 1/h | 1,000 |
| 1/h | 1,000 |
| 1/h | 1,000 |
| 1/h | 300 |

Control circuit:

Type of voltage / of the controlled supply voltage

DC

Control supply voltage frequency

- 1 / rated value

Hz

0

Control supply voltage / 1

- for DC / rated value

V

24

Holding power / of the solenoid / for DC

W

5.9

Auxiliary circuit:

Product extension / auxiliary switch

Yes

Number of NC contacts / for auxiliary contacts

1

Number of NO contacts / for auxiliary contacts

1

Number of change-over switches / for auxiliary contacts

0

Inputs/ Outputs:

Number of digital inputs

0

Short-circuit:

Product function / short circuit protection

Yes

Design of the short-circuit protection

circuit-breakers

Breaking capacity limit short-circuit current (Icu)

- at 400 V / rated value
- at 500 V / rated value
- at 690 V / rated value

A

25,000

A

5,000

A

2,000

Installation/mounting/dimensions:

Built in orientation

vertical

Type of mounting

for snapping onto 60 mm busbar systems

Width

mm

90

Height

mm

260

Depth

mm

164.9

Center line spacing

mm

60

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards
- downwards

mm

10

mm

0

mm

30

mm

30

| | | |
|--|----|----|
| • sideways | mm | 0 |
| Distance, to be maintained, to earthed part | | |
| • forwards | mm | 10 |
| • backwards | mm | 0 |
| • upwards | mm | 30 |
| • downwards | mm | 10 |
| • sideways | mm | 9 |
| Distance, to be maintained, conductive elements | | |
| • forwards | mm | 10 |
| • backwards | mm | 0 |
| • upwards | mm | 30 |
| • downwards | mm | 10 |
| • sideways | mm | 9 |

Connections:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

spring-loaded terminals

spring-loaded terminals

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - stranded
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for auxiliary contacts

2x (1 ... 10 mm²)

2x (1.0 ... 10 mm²)

2x (1 ... 6 mm²)

2x (1 ... 6 mm²)

2x (18 ... 8)

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²)

2x (0.5 ... 1.5 mm²)

2x (20 ... 14)

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

Varification of suitability / ATEX

No

| | | |
|---------------------------------|---------------------------------------|--------------------------|
| General Product Approval | For use in hazardous locations | Test Certificates |
|---------------------------------|---------------------------------------|--------------------------|

[ROSTEST](#)



[DEKRA EXAM,](#)
[DMT](#)

[Manufacturer](#)

Shipping Approval

other



ABS



PRS



RINA

[Manufacturer](#)

[other](#)

Safety:

B10 value / with high demand rate

- according to SN 31920

1,000,000

Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT

250

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

%

40

%

75

T1 value / for proof test interval or service life

- according to IEC 61508

a

10

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

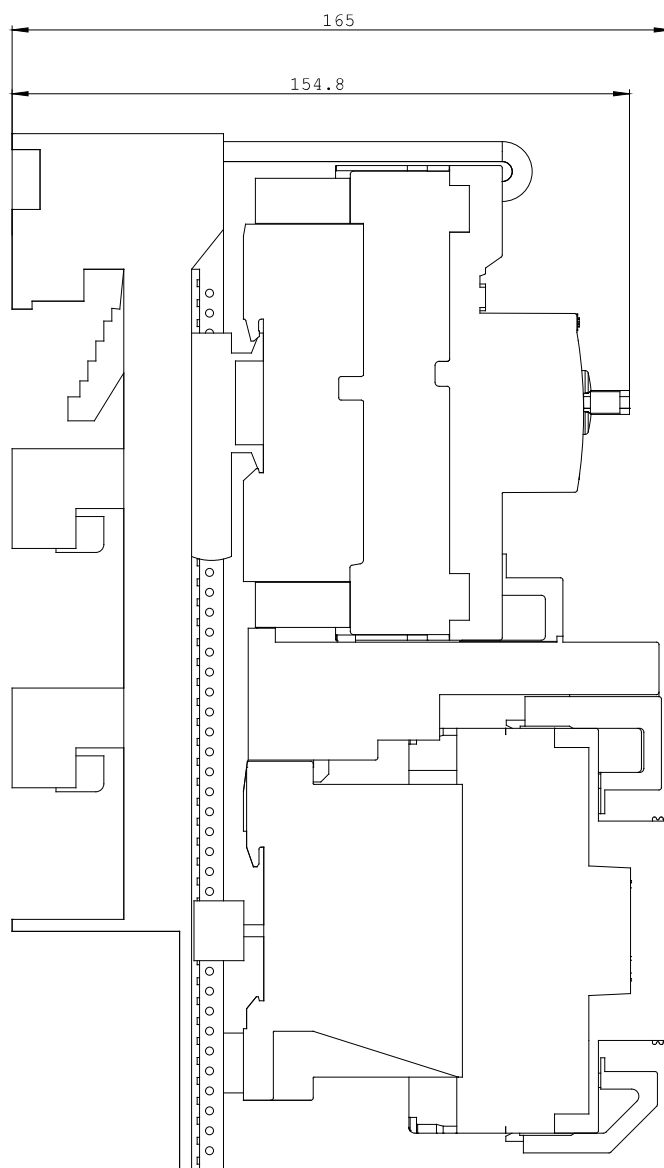
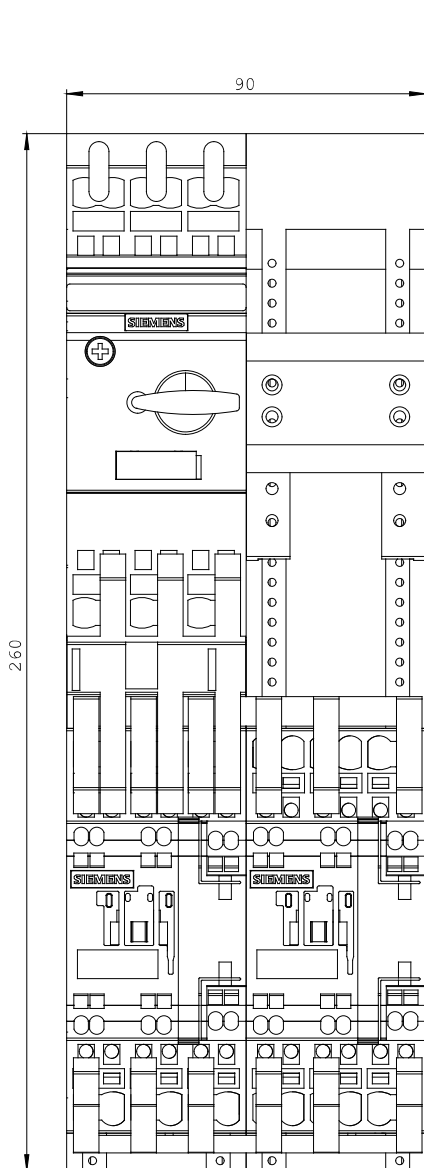
<http://www.siemens.com/cax>

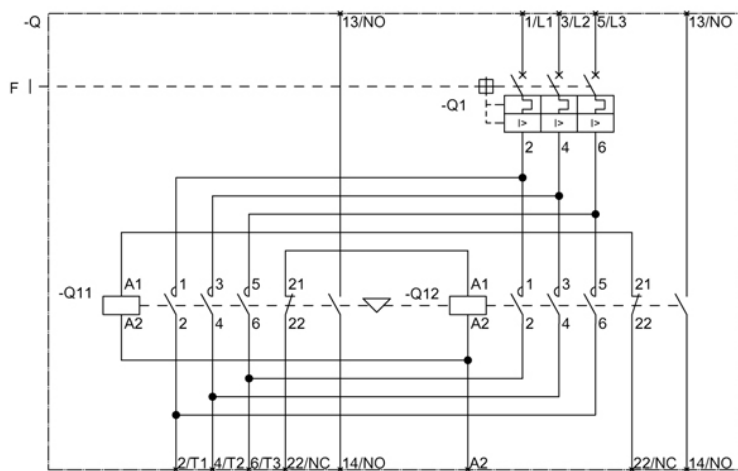
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RA2220-4DH27-0BB4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2220-4DH27-0BB4





last change:

Oct 24, 2011