



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S0, 27...32A,
AC 230V SPRING-LOADED CONNECTION FOR RAIL-
MOUNTING,
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 | | direct 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 | | 3RV2021-4EA20 |
| • of the contactor included in the scope of supply | | 3RT2027-2AP00 |
| • of the link module included in the scope of supply | | 3RA2921-2AA00 |
| Design of the switching contact | | mechanical |
| Type of the motor protection | | bimetal |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 27 ... 32 |

| | | |
|--|--|----|
| 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 | 32 |
| • at AC-2 / at 400 V / rated value | A | 29 |
| • at AC-3 / at 400 V / rated value | A | 29 |
| • at AC-4 / at 400 V / rated value | A | 29 |
| Service power | | |
| • at AC-2 / at 400 V / rated value | W | 15,000 |
| • at AC-3 | | |
| • at 400 V / rated value | W | 15,000 |
| • at 500 V / rated value | W | 18,500 |
| • at 690 V / rated value | W | 30,000 |
| • at AC-4 / at 400 V / rated value | W | 15,000 |
| Off-load operating frequency | 1/h | 10,000 |
| Frequency of operation | | |
| • at AC-1 / according to IEC 60947-6-2 / maximum | 1/h | 1,000 |
| • at AC-2 / according to IEC 60947-6-2 / maximum | 1/h | 1,000 |

- 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 | 300 |

Control circuit:

| | | |
|---|-----|------|
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage frequency | | |
| • 1 / rated value | Hz | 50 |
| Control supply voltage / 1 | | |
| • at 50 Hz / for AC / rated value | V | 230 |
| • at 60 Hz / for AC / rated value | V | 230 |
| Apparent holding power / of the solenoid / for AC | V·A | 9.8 |
| Inductive power factor / with the pull-in power of the coil | | 0.27 |

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 | A | 25,000 |
| • at 500 V / rated value | A | 5,000 |
| • at 690 V / rated value | A | 2,000 |

Installation/mounting/dimensions:

| | | |
|---|----|--|
| Built in orientation | | vertical |
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Width | mm | 45 |
| Height | mm | 242.6 |
| Depth | mm | 106.9 |
| Distance, to be maintained, to the ranks assembly | | |
| • forwards | mm | 10 |
| • backwards | mm | 0 |
| • upwards | mm | 30 |
| • downwards | 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 | Shipping Approval | | |
|--------------------------|--------------------------------|-------------------|-------------------|--|--|
|--------------------------|--------------------------------|-------------------|-------------------|--|--|

[ROSTEST](#)

[DEKRA EXAM, DMT](#)

[Manufacturer](#)



ABS



PRS



RINA

other

[Manufacturer](#)

[other](#)

UL/CSA ratings

yielded mechanical performance (hp)

- for single-phase squirrel cage motors
 - at 230 V / rated value
- for three-phase squirrel cage motors
 - at 220/230 V / rated value
 - at 460/480 V / rated value
 - at 575/600 V / rated value

hp

5

hp

10

hp

20

hp

25

Operating current (FLA) / for three-phase squirrel cage motors

- at 480 V / rated value
- at 600 V / rated value

A

14

A

17

Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

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

150

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,...)

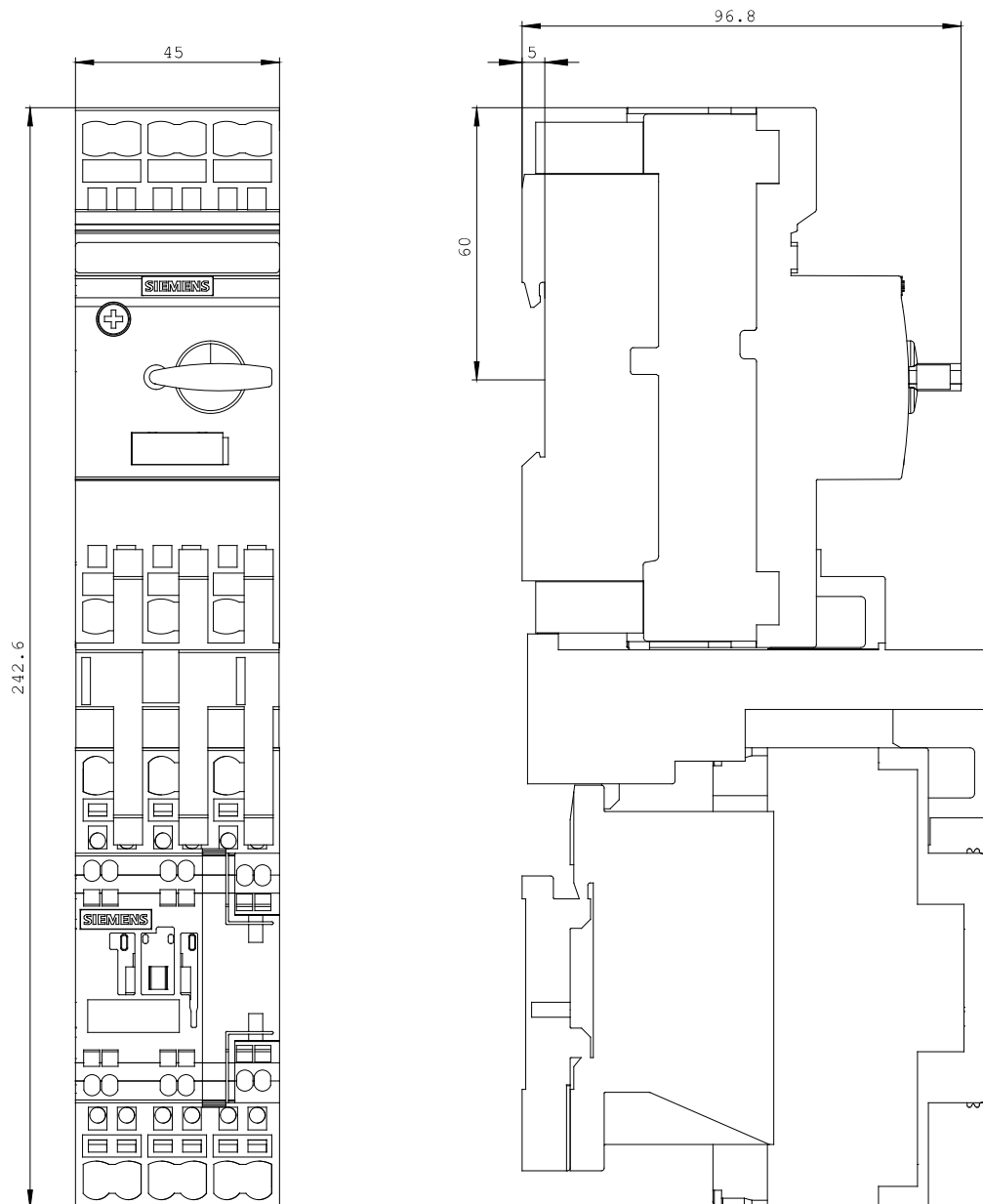
<http://www.siemens.com/industrial-controls/catalogs>

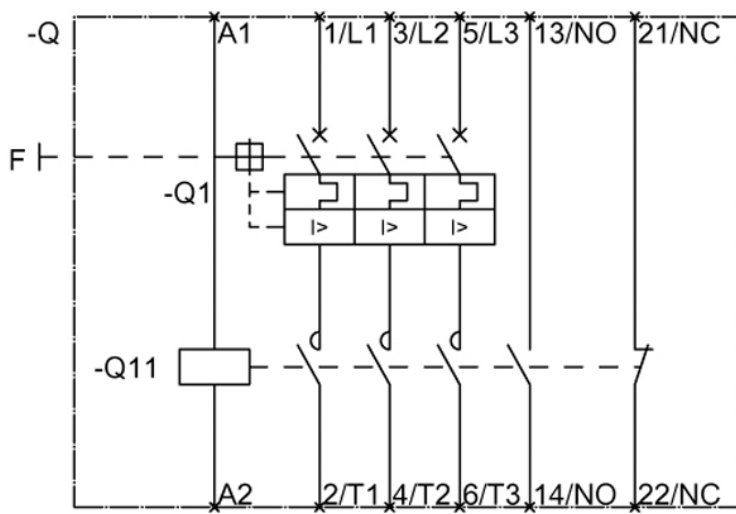
Industry Mall (Online ordering system)

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

CAX-Online-Generator

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





last change:

Oct 24, 2011