



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S00 1.4. . .2A,
AC 230V SCREW CONNECTION FOR BUSBAR SYSTEMS
60MM TYPE OF COORDINATION 2,
IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1)
1NO (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 | | S00 |
| 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 <ul style="list-style-type: none"> during transport during storage during operating | °C | -55 ... 80 -55 ... 80 -20 ... 60 |
| Impulse voltage resistance / rated value | kV | 6 |
| Active power loss / per conductor / typical | W | 2.3 |
| Item designation <ul style="list-style-type: none"> according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 | | Q 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 | | 3RV2011-1BA10 |
| • of the contactor included in the scope of supply | | 3RT2015-1AP01 |
| • of the link module included in the scope of supply | | 3RA1921-1DA00 |
| • of the busbar adapter included in the scope of supply | | 8US1251-5DS10 |
| Design of the switching contact | | mechanical |
| Type of the motor protection | | bimetal |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 1.4 ... 2 |

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 | 2 |
| • at AC-2 / at 400 V / rated value | A | 1.9 |
| • at AC-3 / at 400 V / rated value | A | 1.9 |
| • at AC-4 / at 400 V / rated value | A | 1.9 |
| Service power | | |
| • at AC-2 / at 400 V / rated value | W | 750 |
| • at AC-3 | | |
| • at 400 V / rated value | W | 750 |
| • at 500 V / rated value | W | 750 |
| • at 690 V / rated value | W | 1,100 |
| • at AC-4 / at 400 V / rated value | W | 750 |
| 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
- at AC-3 / according to IEC 60947-6-2 / maximum
- at AC-4 / according to IEC 60947-6-2 / maximum

| | |
|-----|-----|
| 1/h | 750 |
| 1/h | 750 |
| 1/h | 250 |

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
- at 60 Hz / for AC / rated value

V

230

V

230

Apparent holding power / of the solenoid / for AC

V·A

4.2

Inductive power factor / with the pull-in power of the coil

0.25

Auxiliary circuit:

Product extension / auxiliary switch

Yes

Number of NC contacts / for auxiliary contacts

0

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

100,000

A

100,000

A

10,000

Installation/mounting/dimensions:

Built in orientation

vertical

Type of mounting

for snapping onto 60 mm busbar systems

Width

mm

45

Height

mm

200

Depth

mm

155.1

Center line spacing

mm

60

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards

mm

0

mm

0

mm

20

| | | |
|--|----|----|
| • downwards | mm | 30 |
| • sideways | mm | 0 |
| Distance, to be maintained, to earthed part | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 20 |
| • downwards | mm | 10 |
| • sideways | mm | 9 |
| Distance, to be maintained, conductive elements | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 20 |
| • downwards | mm | 10 |
| • sideways | mm | 9 |

Connections:

| | | |
|--|--|--|
| Design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |
| • for main contacts | | |
| • solid | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x (1 ... 4 mm ²) |
| • stranded | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x (1 ... 4 mm ²) |
| • finely stranded | | |
| • with conductor end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • for AWG conductors / for main contacts | | 2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² |
| • finely stranded | | |
| • with conductor end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • for AWG conductors / for auxiliary contacts | | 2x (20 ... 16), 2x (18 ... 14), 2x 12 |

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](#)

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 460/480 V / rated value
 - at 575/600 V / rated value

hp

0.125

hp

0.75

hp

1

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

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

A

2

A

2

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>



