SIEMENS

Product data sheet

3RV2011-0DA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.22...0.32A, N-RELEASE4.2A RING CABLE LUG CONNECTION STANDARD SW. CAPACITY

| General technical data: | | |
|--|----|----------------------|
| Product brand name | | SIRIUS |
| product designation | | 3RV2 circuit breaker |
| Size of the circuit-breaker | | S00 |
| Trip class | | CLASS 10 |
| Protection class IP / on the front | | IP00 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature | | |
| during storage | °C | -50 80 |
| during operating | °C | -20 60 |
| during transport | °C | -50 80 |
| Resistance against shock | | 25g / 11 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 690 |
| Active power loss / total / typical | W | 5 |
| Item designation | | |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | F |
| according to DIN EN 61346-2 | | F |

| • of the main contacts / typical100,000• of the auxiliary contacts / typical100,000Type of the driving mechanism / motor driveNoDesign of the operating mechanismNo• overhaad protectionYes• overhaad protectionYes• phase disturbance recognitionYes• auxiliary solutedNo• undersy solutedNo </th <th>Mechanical operating cycles as operating time</th> <th>_</th> <th></th> | Mechanical operating cycles as operating time | _ | |
|---|---|-----|-----------------|
| Type of the driving mechanism / motor drive Image: mechanism / motor drive No Design of the operating mechanism image: mechanism image: mechanism • overload protection image: mechanism Yes • phase disturbance recognition Yes Yes Product component image: mechanism No • undiary switch No No • undervoltage release mechanism No No • tip indicator No No Product component implication No • inf indicator No No Product stansion / optional / motor drive No No Mine of options / for anin current circuit No So Operating current / at AC-3 / rated value / maximum V So • at 400 V / rated value WW So • at 400 V / rated value WW So • at 600 V / rated value WW So • at 600 V / rated value MU So • at 600 V / rated value MU So • of the non-delayed short-circuit release | of the main contacts / typical | | 100,000 |
| Design of the operating mechanism Product function Selector switch • overidad protection Yes • obeae disturbance recognition Yes Product component Yes • auxiliary switch No • undervoltage release mechanism No • trip indicator No Product extension / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / at 400 V / rated value No off-requency of operation / at AC-3 / at 400 V / rated value W solido V / rated value W 120 • at 400 V / rated value W 120 • at 500 V / rated value W 120 • at 500 V / rated value W 120 • at 500 V / rated value M 120 • at 500 V / rated value M 120 • are functional release A 4.2 4.2 • of the non-delayed short-circuit release A 022 0.32 • of the non-delayed short-circuit release A 0.3.3 • of the non-delayed short-circuit release | of the auxiliary contacts / typical | | 100,000 |
| Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component Yes • audilary switch No • undiary switch No • undiary switch No • trip indicator No Product stansion / optional / motor drive No Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V Operating current / at AC-3 / rated value / maximum V Service power / at AC-3 - • at 400 V / rated value W | Type of the driving mechanism / motor drive | | No |
| • overload protectionImage: Second Secon | Design of the operating mechanism | | selector switch |
| • phase disturbance recognitionImage: Second Se | Product function | | |
| Product component No • auxiliary switch No • undervoltage release mechanism No • trip indicator No Product extension / optional / motor drive No Mumber of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value A 0.3 Service power / at AC-3 U 100 • at 400 V / rated value W 90 100 • at 500 V / rated value W 100 100 • at 600 V / rated value W 100 100 • at 600 V / rated value W 100 100 • at 600 V / rated value W 100 100 • at 600 V / rated value W 100 100 • at 600 V / rated value W 100 100 • of the non-delayed short-circuit release A 0.22 0.32 • of the current-dependent overload release A 0.32 • of the current-dependent overload | overload protection | | Yes |
| • auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV600600Operating current / at AC-3 / rated value / maximumV0600Operating current / at AC-3 / rated value / maximumV060006000001200120• at 600 V / rated valueW0120• at 600 V / rated valueW100 V / rated valueW101 fie non-delayed short-circuit releaseAAdjustable response currentI/h• of the non-delayed short-circuit releaseA00.22 0.32Service power / at AC-3 / at 230 V / rated valueW00Continuous current / rated valueW00Actiliary circuit:VProduct extension / auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of Actinge-over switches / for auxiliary contacts0Numb | phase disturbance recognition | | Yes |
| • undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.3Service power / at AC-3 / at 400 V / rated valueW90• at 400 V / rated valueW90• at 400 V / rated valueW120• at 600 V / rated valueW120• file non-delayed short-ficruit releaseA0.22 0.32• of the non-delayed short-ficruit releaseA0.32• of the non-delayed short-ficruit releaseA0.32• of the current / rated valueM40• of the current / rated valueM0• of the current / rated valueM10• of the current / rated valueM10• of the current / rated valueM10• of the current / | Product component | | |
| • trip indicator No Product extension / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 • at 400 V / rated value A 0.3 • at 400 V / rated value W 90 • at 400 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at angement of electrical connectors / for main current circuit Top and bottom • of the non-delayed short-circuit release A 220.32 Service power / at AC-3 / at 230 V / rated value W 40 Continu | auxiliary switch | | No |
| Product extension / optional / motor drive No Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.3 Service power / at AC-3 W 90 • at 400 V / rated value W 90 • at 400 V / rated value W 90 • at 500 V / rated value W 120 • at 600 V / rated value W 120 • at 600 V / rated value W 120 • at 600 V / rated value W 120 • at 600 V / rated value W 120 • at 600 V / rated value W 120 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Adjustable response current Input state Input state • of the non-delayed short-circuit release A 4.2 4.2 • of the current-dependent overload release A 0.32 Service power / at AC-3 / at 230 V / rated value W 0 Continuous current / rated value Yes | undervoltage release mechanism | | No |
| Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating vortage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.3 Service power / at AC-3 W 90 • at 400 V / rated value W 90 • at 600 V / rated value W 120 • at 600 V / rated value W 120 • at 600 V / rated value W 120 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - • of the non-delayed short-circuit release A 4.2 4.2 • of the current-dependent overload release A 0.32 Service power / at AC-3 / at 230 V / rated value W 40 Continuous current / rated value A 0.32 Auxiliary circuit: Yes 0 Product extension / auxiliary sontacts / instantaneous switching 0 0 Number of NC contacts / for auxiliary contacts / instantaneous switchin | trip indicator | | No |
| Number of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.3Service power / at AC-3W90• at 400 V / rated valueW90• at 600 V / rated valueW120• at 600 V / rated valueW120• at 600 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current | Product extension / optional / motor drive | | No |
| Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.3 Service power / at AC-3 W 90 • at 400 V / rated value W 90 • at 500 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 • at 690 V / rated value W 120 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum 1/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - • of the non-delayed short-circuit release A 4.2 4.2 • of the current-dependent overload release A 0.32 Service power / at AC-3 / at 230 V / rated value W 40 Continuous current / rated value A 0.32 | Main circuit: | | |
| Operating current / at AC-3 / at 400 V / rated valueA0.3Service power / at AC-3W90• at 400 V / rated valueW90• at 500 V / rated valueW120• at 690 V / rated valueW120• at 690 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentA4.2 4.2• of the non-delayed short-circuit releaseA0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueW0.32Auxiliary circuit:Yes1/hProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts / instantaneous switching0 | Number of poles / for main current circuit | | 3 |
| Service power / at AC-3W90• at 400 V / rated valueW90• at 500 V / rated valueW120• at 690 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentIV40• of the non-delayed short-circuit releaseA4.2 4.2• of the current-dependent overload releaseA0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueA0.32Auxiliary circuit:Yes1Product extension / auxiliary switchYes0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts / instantaneous switching0 | Operating voltage / at AC-3 / rated value / maximum | V | 690 |
| • at 400 V / rated valueW90• at 500 V / rated valueW120• at 690 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA4.2 4.2• of the current-dependent overload releaseA0.22 0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueW0.32Auxiliary circuit:YesProduct extension / auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0 | Operating current / at AC-3 / at 400 V / rated value | А | 0.3 |
| • at 500 V / rated valueW120• at 690 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentImage: Comparison of the non-delayed short-circuit releaseA4.2 4.2• of the non-delayed short-circuit releaseA0.22 0.320.02Service power / at AC-3 / at 230 V / rated valueW400.02Continuous current / rated valueW0.320.032Auxiliary circuit:YesImage: Comparison of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching00Number of change-over switches / for auxiliary contacts00Number of change-over switches / for auxiliary con | Service power / at AC-3 | _ | |
| • at 690 V / rated valueW120Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current-Top and bottom• of the non-delayed short-circuit releaseA4.2 4.2• of the current-dependent overload releaseA0.22 0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueA0.32Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Inputs/Outputs:-0 | • at 400 V / rated value | W | 90 |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum 1/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - • of the non-delayed short-circuit release A 4.2 4.2 • of the current-dependent overload release A 0.22 0.32 Service power / at AC-3 / at 230 V / rated value W 40 Continuous current / rated value A 0.32 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts 0 | • at 500 V / rated value | W | 120 |
| maximum Imaximum Imaxim Imaxim Imax | • at 690 V / rated value | W | 120 |
| Adjustable response currentImage: constraint of the non-delayed short-circuit releaseA4.2 4.2• of the current-dependent overload releaseA0.22 0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueA0.32Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Inputs/ Outputs:Imputs/ Outputs: | | 1/h | 15 |
| • of the non-delayed short-circuit releaseA4.2 4.2• of the current-dependent overload releaseA0.22 0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueA0.32Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0 | Arrangement of electrical connectors / for main current circuit | _ | Top and bottom |
| • of the current-dependent overload releaseA0.22 0.32Service power / at AC-3 / at 230 V / rated valueW40Continuous current / rated valueA0.32Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contactsIontactsInputs/ Outputs:IontactsIontacts | Adjustable response current | | |
| Service power / at AC-3 / at 230 V / rated value W 40 Continuous current / rated value A 0.32 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: U | of the non-delayed short-circuit release | А | 4.2 4.2 |
| Continuous current / rated value A 0.32 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Inputs/ Outputs: 0 | of the current-dependent overload release | А | 0.22 0.32 |
| Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0 | Service power / at AC-3 / at 230 V / rated value | W | 40 |
| Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0 | Continuous current / rated value | А | 0.32 |
| Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0 | Auxiliary circuit: | | |
| switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0 | Product extension / auxiliary switch | | Yes |
| switching 0 Number of change-over switches / for auxiliary contacts 0 | | | 0 |
| Inputs/ Outputs: | - | | 0 |
| | Number of change-over switches / for auxiliary contacts | | 0 |
| Number of digital inputs 0 | Inputs/ Outputs: | | |
| | Number of digital inputs | | 0 |

| Short-circuit: | | | |
|---|----|--|--|
| Breaking capacity limit short-circuit current (lcu) | | | |
| • at 400 V / rated value | А | 100,000 | |
| • at 500 V / rated value | А | 100,000 | |
| • at 690 V / rated value | А | 100,000 | |
| Design of the overcurrent release and short-circuit release | | thermomagnetic | |
| Installation/mounting/dimensions: | | | |
| Built in orientation | | any | |
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 | |
| Width | mm | 45 | |
| Height | mm | 97 | |
| Depth | mm | 91 | |
| Distance, to be maintained, to the ranks assembly | | | |
| • forwards | mm | 0 | |
| backwards | mm | 0 | |
| • upwards | mm | 50 | |
| • downwards | mm | 50 | |
| • sidewards | mm | 0 | |
| Distance, to be maintained, to earthed part | | | |
| • forwards | mm | 0 | |
| backwards | mm | 0 | |
| • upwards | mm | 50 | |
| • sidewards | mm | 30 | |
| • downwards | mm | 50 | |
| Distance, to be maintained, conductive elements | | | |
| • forwards | mm | 0 | |
| backwards | mm | 0 | |
| • upwards | mm | 50 | |
| downwards | mm | 50 | |
| • sidewards | mm | 30 | |
| Connections: | | | |
| Product function | | | |
| removable terminal for main circuit | | No | |
| removable terminal for auxiliary and control circuit | | No | |
| Design of the electrical connection | | | |
| for main current circuit | | ring cable connection | |
| Certificates/approvals: | | | |

| Verification of suita | bility | | CI | E/UL/CSA | |
|--|-----------------------|----------------------------|-----|--------------------|----------------|
| f ür Staubexplosie | onsschutz für Zone 2 | 1/22 | nc | , | |
| for gas explosior | protection for zone 1 | 1/2 | nc | , | |
| General Product A | pproval | | | For use in hazar | dous locations |
| coc | (SA) | ROSTEST | | DEKRA EXAM, DMT | |
| Test Certificates | | | | | |
| Manufacturer | other | | | | |
| Shipping Approva | I | | | | |
| ABS | GL | Lloyd's Kegister Lrs | PRS | RINA | RMRS |
| other | | | | | |
| Manufacturer | other | DE | | | |

Safety:

| Galety. | | |
|--|-----|-------------|
| B10 value / with high demand rate | | |
| according to SN 31920 | | 50,000 |
| T1 value / for proof test interval or service life | | |
| according to IEC 61508 | а | 10 |
| Failure rate (FIT value) / with low demand rate | | |
| according to SN 31920 | FIT | 50 |
| Proportion of dangerous failures | | |
| with low demand rate / according to SN 31920 | % | 40 |
| • with high demand rate / according to SN 31920 | % | 40 |
| 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)

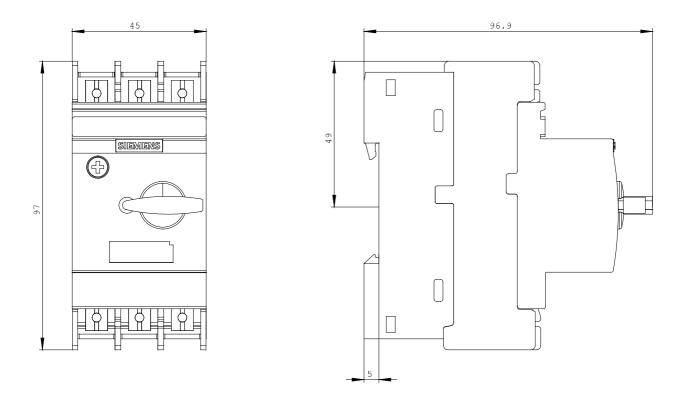
http://www.siemens.com/industrial-controls/mall

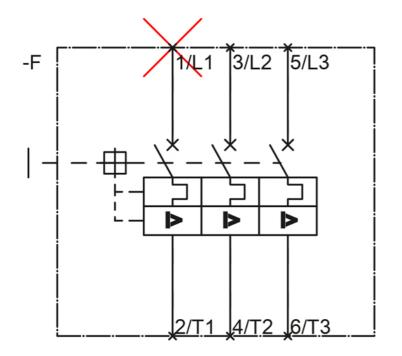
CAx-Online-Generator

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-0DA40/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0DA40





last change:

Oct 17, 2011