SIEMENS

Data sheet

3VA1163-4ED46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=63A OVERLOAD PROTECTION IR=63A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED CABLE CONNECTION

Figure similar

| Model | | | | |
|---------------------------------------------|-----------------------------|--|--|--|
| product brand name | SENTRON | | | |
| Product designation | Molded case circuit breaker | | | |
| Design of the product | Line protection | | | |
| Product variations | General Applications | | | |
| Ground fault monitoring version | Without | | | |
| Design of the auxiliary release | Without auxiliary release | | | |
| Design of the auxiliary switch | Without | | | |
| Design of the operating mechanism | toggle handle | | | |
| Type of the driving mechanism / motor drive | No | | | |
| Design of the overcurrent release | TM210 | | | |

| General technical data | | | | | |
|-------------------------------------------------------------------------|--|--------|--|--|--|
| Number of poles | | 4 | | | |
| Trip class / of the L-trip / with I2t characteristic / initial value | | 1 | | | |
| Trip class / of the L-trip / with I2t characteristic / Full-scale value | | 1 | | | |
| Electrical endurance (switching cycles) | | | | | |
| • at AC-1 / at 380/415 V / at 50/60 Hz | | 8 000 | | | |
| circuit-breaker / Design | | 3VA | | | |
| Mechanical service life (switching cycles) / typical | | 15 000 | | | |

| Voltage | | |
|----------------------------------|---|-----|
| Insulation voltage / Rated value | V | 800 |
| | | |

Protection class

| Protection class IP | | IP40 |
|---------------------------------------------------------------------------------------------------|---|-------------------|
| Protection class IP / on the front | | IP40 |
| Protective function of the overcurrent release | | LI |
| 0.311 | | |
| Switching capacity Switching capacity class of the circuit breaker | | S |
| Ownering dapacity class of the circuit breaker | | S |
| Dissipation | | |
| Active power loss | | |
| • maximum | W | 17.3 |
| Electricity | | |
| Continuous current / Rated value / maximum | А | 160 |
| Continuous current / Rated value | Α | 63 |
| Adjustable response value current | | |
| of the current-dependent overload release / Full-scale value | Α | 1 |
| • of the instantaneous short-circuit release / initial value | Α | 10 |
| Main circuit | | |
| Operating voltage | | |
| • with AC / at 50/60 Hz / Rated value | V | 690 |
| • for DC / Rated value | V | 600 |
| Operating current | | |
| • at 40 °C / Rated value | Α | 63 |
| • at 50 °C / Rated value | Α | 63 |
| • at 55 °C / Rated value | Α | 62 |
| • at 60 °C / Rated value | Α | 61 |
| • at 65 °C / Rated value | Α | 60 |
| • at 70 °C / Rated value | Α | 58 |
| Auxiliary circuit | | |
| Number of CO contacts / for auxiliary contacts | | 0 |
| · · · · · · · · · · · · · · · · · · · | | |
| Suitability Suitability for use | | system protection |
| Sultability for use | | System protection |
| Adjustable parameters | | |
| Adjustable response value current | | |
| of I-trip / Full-scale value | Α | 10 |
| • for N-conductor protection / initial value | Α | 0 |
| • for N-conductor protection / Full-scale value | Α | 0 |
| Adjustable response value current / of the current- dependent overload release / initial value | Α | 1 |
| Product details | | |
| Product component | | |

| Trip indicator | | No |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------|
| display | | No |
| Voltage trigger | | No |
| undervoltage release | | No |
| undervoltage release with leading contact | | No |
| Product property | | |
| for neutral conductors / | | No |
| upgradeable/retrofittable / Short-circuit and | | |
| overload proof | | V |
| Product expansion / optional / motor drive | | Yes |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | No |
| Phase failure detection | | No |
| other measurement function | | No |
| Accessories | | |
| Manufacturer article number / of the supplied basic | | 3VA1163-4ED46-0AA0 |
| switch | | |
| Short circuit | | |
| Operational short-circuit current breaking capacity | | |
| (Ics) | | |
| a =4.040.1// D=4.1.1 | I. A | |
| ● at 240 V / Rated value | kA | 55 |
| at 240 V / Rated valueat 415 V / Rated value | kA kA | 55 36 |
| | | |
| • at 415 V / Rated value | kA | 36 |
| at 415 V / Rated valueat 440 V / Rated value | kA kA | 36 25 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value | kA kA kA | 36 25 15 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value | kA kA kA | 36 25 15 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) | kA kA kA kA | 36 25 15 5 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value | kA kA kA kA | 36 25 15 5 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value | kA kA kA kA | 36 25 15 5 5 36 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value | kA kA kA kA kA | 36 25 15 5 5 55 36 25 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value • at 500 V / Rated value | kA kA kA kA kA kA | 36 25 15 5 5 55 36 25 16 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value | kA kA kA kA kA kA | 36 25 15 5 5 55 36 25 16 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm) | kA kA kA kA kA kA kA | 36 25 15 5 5 55 36 25 16 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value | kA kA kA kA kA kA kA | 36 25 15 5 5 55 36 25 16 7 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value at 415 V / Rated value at 415 V / Rated value at 415 V / Rated value | kA kA kA kA kA kA kA kA kA | 36 25 15 5 5 55 36 25 16 7 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value | kA | 36 25 15 5 55 36 25 16 7 121 75.6 52.5 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value at 690 V / Rated value | kA | 36 25 15 5 55 36 25 16 7 121 75.6 52.5 |

| Type of connectable conductor cross-section | |
|----------------------------------------------------------|--------------------|
| • of the round conductor terminal / stranded | 1 x (1.5 - 70 mm²) |
| Type of electrical connection / for main current circuit | Box terminal |
| | |

| Mechanical Design | | | | | |
|-------------------|----|----------------|--|--|--|
| Height | mm | 130 | | | |
| Width | mm | 101.6 | | | |
| Depth | mm | 70 | | | |
| Mounting type | | fixed mounting | | | |

| Environmental conditions | | | | | |
|----------------------------------------------|----|-----|--|--|--|
| Ambient temperature | | | | | |
| during operation / minimum | °C | -25 | | | |
| during operation / maximum | °C | 70 | | | |
| during storage / minimum | °C | -40 | | | |
| during storage / maximum | °C | 80 | | | |

| | Osmanal | EMO | Daalanatian | binning Angustral | -41 |
|---|-------------------|---------|-------------|-----------------------|-----|
| | • acc. to DIN EN | 81346-2 | | Q | |
| | ● acc. to DIN EN | 61346-2 | | Q | |
| _ | Equipment marking | | | | |

| General | EMC | Declaration of | Shipping Approval | other |
|----------|-----|----------------|-------------------|-------|
| Product | | Conformity | | |
| Approval | | | | |



Certificates

other







other

Further information

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

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11634ED460AA0

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

http://support.automation.siemens.com/WW/view/en/3VA11634ED460AA0/all

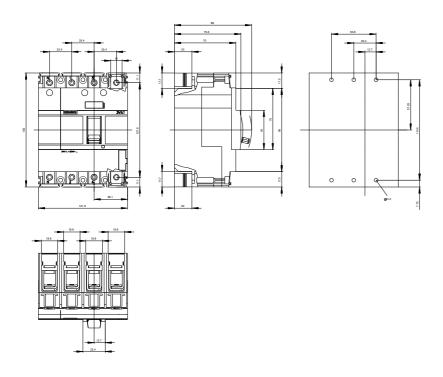
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11634ED460AA0

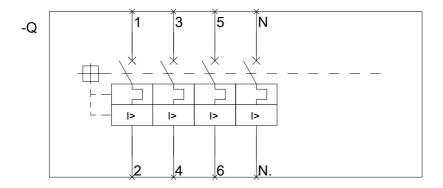
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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