# **SIEMENS**

## Data sheet

# 3VA1196-3ED36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

Figure similar

| Model 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   |  | 3      |  |  |
| 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 / on the front  Protective function of the overcurrent release  Switching capacity Switching capacity class of the circuit breaker  Dissipation | IP40<br>LI<br>N   |  |  |  |
|---|-------------------|--|--|--|
| Switching capacity Switching capacity class of the circuit breaker  |                   |  |  |  |
| Switching capacity class of the circuit breaker   | N                 |  |  |  |
| Switching capacity class of the circuit breaker   | N                 |  |  |  |
| Dissipation   |                   |  |  |  |
|   |                   |  |  |  |
| Active power loss   |                   |  |  |  |
| • maximum W   | 10.6              |  |  |  |
| Electricity   |                   |  |  |  |
| Continuous current / Rated value / maximum A  | 160               |  |  |  |
| Continuous current / Rated value A  | 16                |  |  |  |
| Adjustable response value current   |                   |  |  |  |
| <ul> <li>of the current-dependent overload release / A</li> <li>Full-scale value</li> </ul>   | 1                 |  |  |  |
| • of the instantaneous short-circuit release / initial A value  | 10                |  |  |  |
| Main circuit  |                   |  |  |  |
| Operating voltage   |                   |  |  |  |
| • with AC / at 50/60 Hz / Rated value V   | 690               |  |  |  |
| • for DC / Rated value V  | 500               |  |  |  |
| Operating current   |                   |  |  |  |
| • at 40 °C / Rated value A  | 16                |  |  |  |
| • at 50 °C / Rated value A  | 16                |  |  |  |
| • at 55 °C / Rated value A  | 16                |  |  |  |
| • at 60 °C / Rated value A  | 15                |  |  |  |
| • at 65 °C / Rated value A  | 15                |  |  |  |
| • at 70 °C / Rated value A  | 15                |  |  |  |
| Auxiliary circuit   |                   |  |  |  |
| Number of CO contacts / for auxiliary contacts  | 0                 |  |  |  |
| Suitability   |                   |  |  |  |
| Suitability for use   | system protection |  |  |  |
| Adjustable parameters   |                   |  |  |  |
| Adjustable response value current   |                   |  |  |  |
| of I-trip / Full-scale value     A  | 10                |  |  |  |
| • for N-conductor protection / initial value A  | 0                 |  |  |  |
| • for N-conductor protection / Full-scale value A   | 0                 |  |  |  |
| Adjustable response value current / of the current- dependent overload release / initial value  | 1                 |  |  |  |
| Product details   |                   |  |  |  |
| Product component   |                   |  |  |  |

| Trip indicator   |                | No                 |
|--|----------------|--------------------|
| • display  |                | No                 |
|  |                | No                 |
| Voltage trigger  |                | No                 |
| undervoltage release   |                |                    |
| undervoltage release with leading contact  | _              | No                 |
| Product property   |                | No                 |
| <ul> <li>for neutral conductors /<br/>upgradeable/retrofittable / Short-circuit and</li> </ul>   |                | INO                |
| overload proof   |                |                    |
| Product expansion / optional / motor drive   | _              | Yes                |
| Product function   |                |                    |
| Product function   |                |                    |
| <ul> <li>Intrinsic device protection</li> </ul>  |                | Yes                |
| • communication function   |                | No                 |
| Phase failure detection  |                | No                 |
| other measurement function   |                | No                 |
| Accessories  |                |                    |
| Manufacturer article number / of the supplied basic  |                | 3VA1196-3ED36-0AA0 |
| switch   |                |                    |
| Short circuit  |                |                    |
| Operational short-circuit current breaking capacity  |                |                    |
| (lcs)  |                |                    |
| • at 240 V / Rated value   | kA             | 36                 |
| • at 415 V / Rated value   | kA             | 25                 |
| • at 440 V / Rated value   | kA             | 16                 |
| • at 500 V / Rated value   | kA             | 8                  |
| • at 690 V / Rated value   | kA             | 5                  |
| Maximum short-circuit current breaking capacity (Icu)  |                |                    |
| • at 240 V / Rated value   | kA             | 36                 |
| ● at 415 V / Rated value   | kA             | 25                 |
| • at 440 V / Rated value   | kA             | 16                 |
| at 500 V / Rated value   |                |                    |
|  | kA             | 8                  |
| • at 690 V / Rated value   | kA<br>kA       | 7                  |
|  |                |                    |
| • at 690 V / Rated value   |                |                    |
| at 690 V / Rated value  Short-circuit current making capacity (Icm)  | kA             | 7                  |
| <ul> <li>at 690 V / Rated value</li> <li>Short-circuit current making capacity (Icm)</li> <li>at 240 V / Rated value</li> </ul>  | kA<br>kA       | 7<br>75.6          |
| at 690 V / Rated value  Short-circuit current making capacity (Icm)     at 240 V / Rated value     at 415 V / Rated value     at 690 V / Rated value  Connections  | kA<br>kA<br>kA | 7 75.6 52.5 7.5    |
| at 690 V / Rated value  Short-circuit current making capacity (Icm)     at 240 V / Rated value     at 415 V / Rated value     at 690 V / Rated value  Connections  Arrangement of electrical connectors / for main | kA<br>kA<br>kA | 7<br>75.6<br>52.5  |
| at 690 V / Rated value  Short-circuit current making capacity (Icm)     at 240 V / Rated value     at 415 V / Rated value     at 690 V / Rated value  Connections  | kA<br>kA<br>kA | 7 75.6 52.5 7.5    |

|                     | 4 (45 70 3)  |                         |             |      |      |                    |       |  |
|---------------------|--|-------------------------|-------------|------|------|--------------------|-------|--|
|                     | <ul> <li>of the round co</li> </ul>                      | onductor terminal / str | anded       |      |      | 1 x (1.5 - 70 mm²) |       |  |
|                     | Type of electrical connection / for main current circuit |                         |             |      |      | Box terminal       |       |  |
|                     | -  |                         |             |      | _    |                    |       |  |
|                     | Mechanical Design  |                         |             |      |      |                    |       |  |
|                     | Height   |                         |             | mm   |      | 130                |       |  |
| 7                   | Width  |                         |             | mm   |      | 76.2               |       |  |
|                     | Depth  |                         |             | mm   |      | 70                 |       |  |
|                     | Mounting type  |                         |             |      |      | fixed mounting     |       |  |
| Е                   | Environmental conditions                                 |                         |             |      |      |                    |       |  |
| Ambient temperature |  |                         |             |      |      |                    |       |  |
|                     | during operation / minimum                               |                         |             | °C   |      | -25                |       |  |
|                     | during operation / maximum                               |                         |             | °C   |      | 70                 |       |  |
|                     | during storage / minimum                                 |                         |             | °C   |      | -40                |       |  |
|                     | during storage / maximum                                 |                         |             | °C   |      | 80                 |       |  |
| С                   | Certificates   |                         |             |      |      |                    |       |  |
|                     | Equipment marking  |                         |             |      |      |                    |       |  |
|                     | • acc. to DIN EN 61346-2                                 |                         |             |      |      | Q                  |       |  |
|                     | ● acc. to DIN EN 81346-2                                 |                         |             |      |      | Q                  |       |  |
|                     | General  | EMC                     | Declaration | n of | Shir | pping Approval     | other |  |
|                     | Product Conformity                                       |                         |             |      |      |                    |       |  |
|                     | Approval   |                         |             |      |      |                    |       |  |

## Further information

EHC

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

other

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

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11963ED360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11963ED360AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11963ED360AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

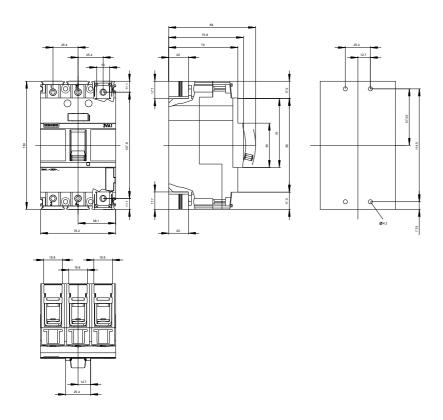
**Tender specifications** 

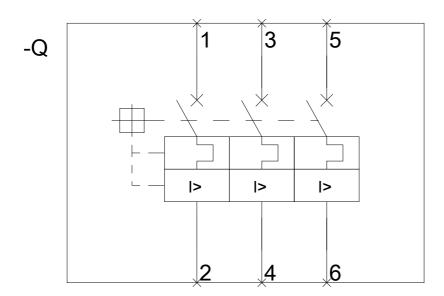
http://ausschreibungstexte.siemens.com/tiplv

other

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