

circuit breaker 3VA1 IEC Frame 100 breaking capacity class B Icu=16 kA @ 415 V
3-pole, line protection TM210, FTFM, In=50 A overload protection Ir=50 A
permanently set short-circuit protection Ii=10 x In nut keeper kit for DC power OEM
in China

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| design of the product | Line protection |
| design of the overcurrent release | TM210 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| General technical data | |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 9 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 6 300 |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No |
| ground-fault monitoring version | Without |
| product function | |
| • communication function | No |
| • other measurement function | No |
| Net Weight | 958 g |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | B |
| design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |
| Adjustable parameters | |
| product feature / for L-tripping / can be switched on/off | No |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| • undervoltage release | No |
| • voltage trigger | No |
| • trip indicator | No |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Front terminal |
| type of electrical connection / for main current circuit | nut keeper kit on both ends |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 12 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 17 x 6,5 mm |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) | Silver |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | Tin |
| Auxiliary circuit | |
| number of CO contacts / for auxiliary contacts | 0 |
| Accessories | |
| product extension / optional / motor drive | No |
| Environmental conditions | |
| protection class IP / on the front | IP40 |
| Environmental footprint | |

| | |
|---|-----|
| Environmental Product Declaration(EPD) | Yes |
| reference code / according to IEC 81346-2 | Q |

Approvals / Certificates

| | | |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Test Certificates |
|--------------------------|-----|-------------------|

| | | | | | |
|-------------------------------|---|------------------------------|---|-------------------------------|--|
| Miscellaneous |  | Confirmation |  | Miscellaneous | Special Test Certificate |
|-------------------------------|---|------------------------------|---|-------------------------------|--|

Test Certificates **Maritime application**

| | | | | | |
|--|---|---|---|---|--|
| Type Test Certificates/Test Report |  |  |  |  | CCS (China Classification Society) |
|--|---|---|---|---|--|

other **Environment**

| | | | | |
|-------------------------------|------------------------------|---|---|---|
| Miscellaneous | Confirmation |  | Environmental Confirmations | Environmental Confirmations |
|-------------------------------|------------------------------|---|---|---|

Further information

- Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
- Information for data generation and storage
<https://support.industry.siemens.com/cs/ww/en/view/109995012>
- Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/lowvoltage/catalogs>
- Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1050-2ED32-0AA0-Z D00>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VA1050-2ED32-0AA0-Z D00>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1050-2ED32-0AA0-Z D00
- CAx-Online-Generator
<https://www.siemens.com/cax>
- Tender specifications
<https://www.siemens.com/specifications>
- Characteristic curves
[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

last modified: 4/3/2025 

