

circuit breaker 3VA1 IEC Frame 250 breaking capacity class S Icu=36 kA @ 415 V  
4-pole, line protection TM220, ATFM, In=250 A overload protection Ir=175 A...250  
A short-circuit protection Ii=10 x In N conductor unprotected 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   | TM220  |
| protection function of the overcurrent release  | LI   |
| number of poles   | 4  |
| General technical data  |  |
| mechanical service life (operating cycles) / typical  | 20 000   |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 8 000  |
| electrical endurance (operating cycles) / at AC-1 / at 690 V  | 5 400  |
| 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  | 2.072 kg   |
| Switching capacity according to IEC 60947   |  |
| switching capacity class of the circuit breaker   | S  |
| 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   |
| design of the N-conductor protection  | without  |
| 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             | 13 x 1 mm  |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum             | 25 x 8 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)                 | Silver   |
| Auxiliary circuit   |  |
| number of CO contacts / for auxiliary contacts  | 0  |
| Accessories   |  |
| product extension / optional / motor drive  | Yes  |
| Environmental conditions  |  |
| protection class IP / on the front  | IP40   |
| reference code / according to IEC 81346-2   | Q  |

## Approvals / Certificates

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



[Miscellaneous](#)



[Confirmation](#)



[Miscellaneous](#)

|                   |                      |       |
|-------------------|----------------------|-------|
| Test Certificates | Maritime application | other |
|-------------------|----------------------|-------|

[Special Test Certificate](#)



[CCS \(China Classification Society\)](#)

[Miscellaneous](#)

[Confirmation](#)

|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|



[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=3VA1225-4EE42-0AA0-Z D00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-4EE42-0AA0-Z D00>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1225-4EE42-0AA0-Z D00](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1225-4EE42-0AA0-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=)

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