

circuit breaker 3VA1 IEC Frame 160 breaking capacity class S Icu=36 kA @ 415 V  
4-pole, line protection TM210, FTFM, In=40 A overload protection Ir=40 A  
permanently set short-circuit protection Ii=10 x In neutral conductor protection  
100% 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   | 4  |
| 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  | 1.21 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  | 100%   |
| 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  | Yes  |
| 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](#)

| Maritime application | other |
|----------------------|-------|
|----------------------|-------|



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

[Miscellaneous](#)

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

[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=3VA1140-4GD42-0AA0-Z D00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-4GD42-0AA0-Z D00>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1140-4GD42-0AA0-Z D00](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1140-4GD42-0AA0-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

