SIEMENS

## Data sheet 3VJ1002-0EB42-0AA0

circuit breaker 3VJ1 IEC framesize 3VJ10 125A line protection ATFM 4-pole Icu=10kA@415V Ics=100% Icu In=20A overload protection Ir=16A..20A short-circuit protection Ii=500A Screw connection

| | |
|---|---|
| **Model** | |
| product brand name | SINOPLUS |
| product designation | Molded Case Circuit Breaker |
| design of the product | Line protection |
| design of the overcurrent release | ATFM |
| protection function of the overcurrent release | LI |
| number of poles | 4 |
| **General technical data** | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 415 V |
| power loss [W] / maximum | 38 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 9.5 W |
| mechanical service life (operating cycles) / typical | 15 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 5 000 |
| ground-fault monitoring version | without |
| Net Weight | 1.06 kg |
| **Current** | |
| continuous current / rated value | 20 A |
| operational current | |
| ● at 40 °C | 20 A |
| ● at 45 °C | 20 A |
| ● at 50 °C | 20 A |
| ● at 55 °C | 19.44 A |
| ● at 60 °C | 18.88 A |
| **Switching capacity according to IEC 60947** | |
| maximum short-circuit current breaking capacity (Icu) | |
| ● at 415 V | 10 kA |
| operating short-circuit current breaking capacity (Ics) | |
| ● at 415 V | 10 kA |
| short-circuit current making capacity (Icm) | |
| ● at 415 V | 17 kA |
| **Adjustable parameters** | |
| adjustable current response value current / of the current-dependent overload release | 16 ... 20 A |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| ● minimum | 500 A |
| ● maximum | 500 A |
| design of the N-conductor protection | 1 |


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| | |
|---|---|
| product function / grounding protection | No |
| **Mechanical Design** | |
| product component | |
| ● undervoltage release | No |
| ● trip indicator | No |
| height | 126 mm |
| width | 103.5 mm |
| depth | 68 mm |
| **Connections** | |
| arrangement of electrical connectors / for main current circuit | Front connection |
| type of electrical connection / for main current circuit | Lug connection line and load side |
| **Accessories** | |
| product extension / optional / motor drive | No |
| **Environmental conditions** | |
| protection class IP / on the front | IP42 |
| ambient temperature | |
| ● during operation / minimum | -10 °C |
| ● during operation / maximum | 60 °C |
| ● during storage / minimum | -15 °C |
| ● during storage / maximum | 75 °C |
| **Approvals / Certificates** | |

| Test Certificates | other |
|---|---|

Type Test Certific-ates/Test Report

Confirmation

**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=3VJ1002-0EB42-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VJ1002-0EB42-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1002-0EB42-0AA0
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
**Kennlinien**
https://curves.simaris.siemens.com/curves/3VJ1002-0EB42-0AA0


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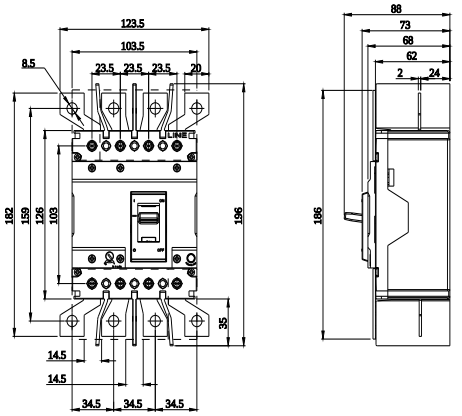


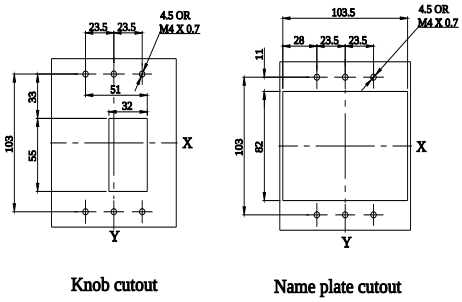


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