



circuit breaker 3VJ1 IEC framesize 3VJ10 125A line protection FTFM 4-pole  
Icu=10kA@415V Ics=100% Icu In=40A overload protection Ir=40A short-circuit  
protection Ii=550A Screw connection

| Model                                                                                       |                             |
|---------------------------------------------------------------------------------------------|-----------------------------|
| product designation                                                                         | Molded Case Circuit Breaker |
| design of the product                                                                       | Line protection             |
| design of the overcurrent release                                                           | FTFM                        |
| 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                                                            | 40 A                        |
| operational current                                                                         |                             |
| • at 40 °C                                                                                  | 40 A                        |
| • at 45 °C                                                                                  | 40 A                        |
| • at 50 °C                                                                                  | 40 A                        |
| • at 55 °C                                                                                  | 38.88 A                     |
| • at 60 °C                                                                                  | 37.76 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       | 40 ... 40 A                 |
| adjustable current response value current / of instantaneous short-circuit trip unit        |                             |
| • minimum                                                                                   | 550 A                       |
| • maximum                                                                                   | 550 A                       |
| design of the N-conductor protection                                                        | 1                           |
| product function / grounding protection                                                     | No                          |
| Mechanical Design                                                                           |                             |

|                                                                 |                                   |
|-----------------------------------------------------------------|-----------------------------------|
| height                                                          | 126 mm                            |
| width                                                           | 103.5 mm                          |
| depth                                                           | 68 mm                             |
| <b>Connections</b>                                              |                                   |
| arrangement of electrical connectors / for main current circuit | Front connection                  |
| type of electrical connection / for main current circuit        | Lug connection line and load side |
| <b>Accessories</b>                                              |                                   |
| product extension / optional / motor drive                      | No                                |
| <b>Environmental conditions</b>                                 |                                   |
| 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                             |
| <b>Approvals / Certificates</b>                                 |                                   |
| <b>Test Certificates</b>                                        | <b>other</b>                      |

[Type Test Certificates/Test Report](#)

[Confirmation](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VJ1004-0EA42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VJ1004-0EA42-0AA0>

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

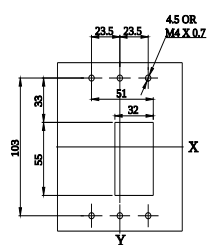
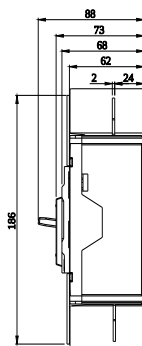
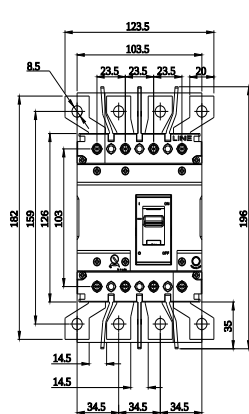
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VJ1004-0EA42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1004-0EA42-0AA0)

CAX-Online-Generator

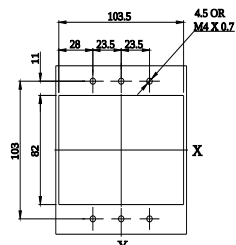
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



Knob cutout



Name plate cutout

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8/9/2023

