



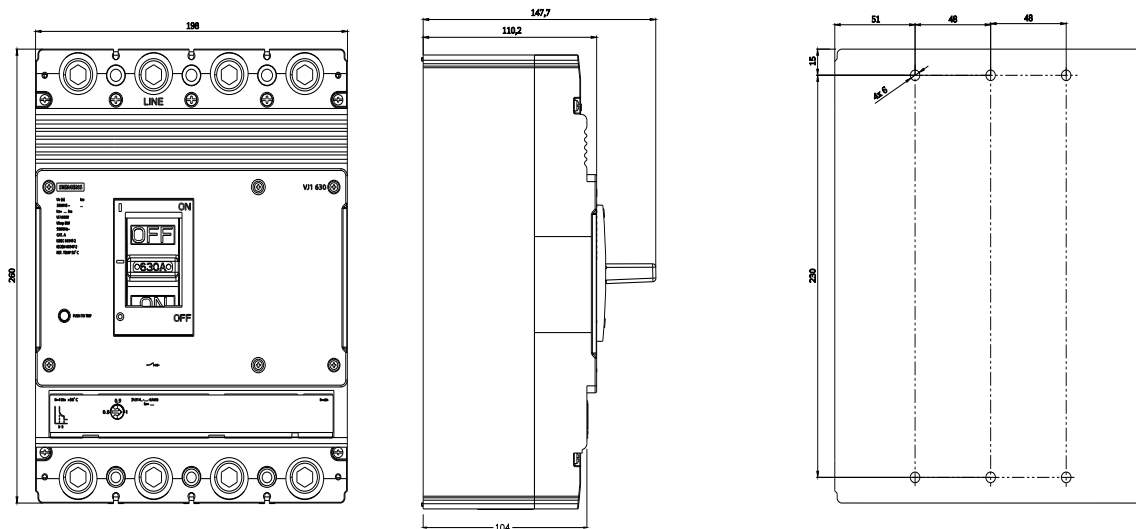
circuit breaker 3VJ1 IEC framesize 3VJ14 630A line protection FTFM 4-pole  
Icu=36kA@415V Ics=75% Icu In=500A overload protection Ir=500A short-circuit  
protection Ii=10 x In Screw connection

| Model                                                                                       |                             |
|---------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                          | SINOPLUS                    |
| 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                                                            | 1 000 V                     |
| operating voltage / at AC / rated value                                                     | 415 V                       |
| power loss [W] / maximum                                                                    | 42 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 10.5 W                      |
| mechanical service life (operating cycles) / typical                                        | 10 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                            | 4 500                       |
| ground-fault monitoring version                                                             | without                     |
| Net Weight                                                                                  | 7.03 kg                     |
| Current                                                                                     |                             |
| operational current                                                                         |                             |
| • at 40 °C                                                                                  | 500 A                       |
| • at 45 °C                                                                                  | 500 A                       |
| • at 50 °C                                                                                  | 500 A                       |
| • at 55 °C                                                                                  | 487 A                       |
| • at 60 °C                                                                                  | 475 A                       |
| Switching capacity according to IEC 60947                                                   |                             |
| maximum short-circuit current breaking capacity (Icu)                                       |                             |
| • at 415 V                                                                                  | 36 kA                       |
| operating short-circuit current breaking capacity (Ics)                                     |                             |
| • at 415 V                                                                                  | 27 kA                       |
| short-circuit current making capacity (Icm)                                                 |                             |
| • at 415 V                                                                                  | 75.59 kA                    |
| Adjustable parameters                                                                       |                             |
| adjustable current response value current / of the current-dependent overload release       | 400 ... 500 A               |
| adjustable current response value current / of instantaneous short-circuit trip unit        |                             |
| • minimum                                                                                   | 5 000 A                     |
| • maximum                                                                                   | 5 000 A                     |
| design of the N-conductor protection                                                        | 1                           |
| product function / grounding protection                                                     | No                          |

| Mechanical Design                                               |                                   |
|-----------------------------------------------------------------|-----------------------------------|
| product component                                               |                                   |
| • undervoltage release                                          | No                                |
| • trip indicator                                                | No                                |
| height                                                          | 180 mm                            |
| width                                                           | 198 mm                            |
| depth                                                           | 110 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                                        |                                   |
| other                                                           |                                   |

[Confirmation](#)

| Further information                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                                      |
| <b>Information for data generation and storage</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                                                                       |
| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a>                                                                                                           |
| <b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VJ1450-5EA42-0AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VJ1450-5EA42-0AA0</a>                                            |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3VJ1450-5EA42-0AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VJ1450-5EA42-0AA0</a>                                              |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1450-5EA42-0AA0">https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VJ1450-5EA42-0AA0</a> |
| <b>CAX-Online-Generator</b><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>                                                                                                                                                                                |
| <b>Tender specifications</b><br><a href="https://www.siemens.com/specifications">https://www.siemens.com/specifications</a>                                                                                                                                                         |
| <b>Kennlinien</b><br><a href="https://curves.simaris.siemens.com/curves/3VJ1450-5EA42-0AA0">https://curves.simaris.siemens.com/curves/3VJ1450-5EA42-0AA0</a>                                                                                                                        |



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