

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 630 breaking capacity class C Icu=110 kA @ 415 V 3-pole, motor protection ETU550M, LSI, In=400 A overload protection Ir=160 A ...400 A short-circuit protection Isd=1.2... 15x In,Ii=3..15x In nut keeper kit



| Model                                                                                                  |                             |
|--------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                     | SENTRON                     |
| product designation                                                                                    | Molded case circuit breaker |
| design of the product                                                                                  | Motor protection            |
| design of the overcurrent release                                                                      | ETU550M                     |
| protection function of the overcurrent release                                                         | LSI                         |
| number of poles                                                                                        | 3                           |
| General technical data                                                                                 |                             |
| insulation voltage / rated value                                                                       | 800 V                       |
| operating voltage / at AC / rated value                                                                | 690 V                       |
| operating power / at AC-3 / at 400 V                                                                   | 160 000 W                   |
| operating power / at AC-3 / at 230 V                                                                   | 90 000 W                    |
| power loss [W] / maximum                                                                               | 63.5 W                      |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 21.17 W                     |
| mechanical service life (operating cycles) / typical                                                   | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                       | 5 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                           | 3 500                       |
| electrical endurance (operating cycles) / at AC-3 / at 380/415 V                                       | 3 000                       |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No                          |
| ground-fault monitoring version                                                                        | Without                     |
| product function                                                                                       |                             |
| • communication function                                                                               | Yes                         |
| • phase failure detection                                                                              | Yes                         |
| • other measurement function                                                                           | No                          |
| Net Weight                                                                                             | 4.766 kg                    |
| Current                                                                                                |                             |
| short-time withstand current (Icw) / limited to 1 s                                                    | 5 kA                        |
| operational current                                                                                    |                             |
| • at 40 °C                                                                                             | 400 A                       |
| • at 45 °C                                                                                             | 400 A                       |
| • at 50 °C                                                                                             | 400 A                       |
| • at 55 °C                                                                                             | 400 A                       |
| • at 60 °C                                                                                             | 400 A                       |
| • at 65 °C                                                                                             | 400 A                       |

|                                                                                                                   |                              |
|-------------------------------------------------------------------------------------------------------------------|------------------------------|
| ● at 70 °C                                                                                                        | 400 A                        |
| <b>Switching capacity according to IEC 60947</b>                                                                  |                              |
| switching capacity class of the circuit breaker                                                                   | C                            |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                                |                              |
| ● at 240 V                                                                                                        | 150 kA                       |
| ● at 415 V                                                                                                        | 110 kA                       |
| ● at 440 V                                                                                                        | 110 kA                       |
| ● at 500 V                                                                                                        | 85 kA                        |
| ● at 690 V                                                                                                        | 6 kA                         |
| operating short-circuit current breaking capacity (I <sub>cs</sub> )                                              |                              |
| ● at 240 V                                                                                                        | 150 kA                       |
| ● at 415 V                                                                                                        | 110 kA                       |
| ● at 440 V                                                                                                        | 110 kA                       |
| ● at 500 V                                                                                                        | 85 kA                        |
| ● at 690 V                                                                                                        | 6 kA                         |
| short-circuit current making capacity (I <sub>cm</sub> )                                                          |                              |
| ● at 240 V                                                                                                        | 330 kA                       |
| ● at 415 V                                                                                                        | 242 kA                       |
| ● at 440 V                                                                                                        | 242 kA                       |
| ● at 500 V                                                                                                        | 187 kA                       |
| ● at 690 V                                                                                                        | 9 kA                         |
| <b>Adjustable parameters</b>                                                                                      |                              |
| product feature / for L-tripping / can be switched on/off                                                         | No                           |
| adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic |                              |
| ● minimum                                                                                                         | 160 A                        |
| ● maximum                                                                                                         | 400 A                        |
| adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic     |                              |
| ● minimum                                                                                                         | 3 s                          |
| ● maximum                                                                                                         | 25 s                         |
| adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic    |                              |
| ● minimum                                                                                                         | 480 A                        |
| ● maximum                                                                                                         | 6 000 A                      |
| adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic    |                              |
| ● minimum                                                                                                         | 0.03 s                       |
| ● maximum                                                                                                         | 0.03 s                       |
| adjustable response value setting current (I <sub>i</sub> ) / for I-tripping                                      |                              |
| ● minimum                                                                                                         | 1 200 A                      |
| ● maximum                                                                                                         | 6 000 A                      |
| adjustable setting current (I <sub>n</sub> ) / for N-tripping                                                     |                              |
| ● minimum                                                                                                         | 0 A                          |
| ● maximum                                                                                                         | 0 A                          |
| product function / grounding protection                                                                           | No                           |
| adjustable trip class (T <sub>c</sub> CLASS)                                                                      | 10A, 10/10E, 20/ 20E, 30/30E |
| tripping time (T <sub>p</sub> ) / with adjustable trip class (T <sub>c</sub> CLASS)                               |                              |
| ● minimum                                                                                                         | 3 s                          |
| ● maximum                                                                                                         | 25 s                         |
| <b>Mechanical Design</b>                                                                                          |                              |
| product component                                                                                                 |                              |
| ● undervoltage release                                                                                            | No                           |
| ● voltage trigger                                                                                                 | No                           |
| ● trip indicator                                                                                                  | No                           |
| height [in]                                                                                                       | 9.76 in                      |
| height                                                                                                            | 248 mm                       |
| width [in]                                                                                                        | 5.43 in                      |
| width                                                                                                             | 138 mm                       |
| depth [in]                                                                                                        | 4.33 in                      |

|                                                                                           |                              |
|-------------------------------------------------------------------------------------------|------------------------------|
| depth                                                                                     | 110 mm                       |
| <b>Connections</b>                                                                        |                              |
| arrangement of electrical connectors / for main current circuit                           | Front terminal               |
| type of electrical connection / for main current circuit                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 20 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 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                       |

|                                                |   |
|------------------------------------------------|---|
| <b>Auxiliary circuit</b>                       |   |
| number of CO contacts / for auxiliary contacts | 0 |

|                                            |     |
|--------------------------------------------|-----|
| <b>Accessories</b>                         |     |
| product extension / optional / motor drive | Yes |

|                                    |        |
|------------------------------------|--------|
| <b>Environmental conditions</b>    |        |
| protection class IP / on the front | IP40   |
| ambient temperature                |        |
| • during operation / minimum       | -25 °C |
| • during operation / maximum       | 70 °C  |
| • during storage / minimum         | -40 °C |
| • during storage / maximum         | 80 °C  |

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| <b>Environmental footprint</b>                           |                 |
| global warming potential [CO2 eq] / total                | 495 kg          |
| global warming potential [CO2 eq] / during manufacturing | 28.7 kg         |
| global warming potential [CO2 eq] / during operation     | 470 kg          |
| global warming potential [CO2 eq] / after end of life    | -4.07 kg        |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

|                                 |  |
|---------------------------------|--|
| <b>Approvals / Certificates</b> |  |
| <b>General Product Approval</b> |  |



[Confirmation](#)



[Miscellaneous](#)



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



[Special Test Certificate](#)

[Miscellaneous](#)



|                      |       |                 |             |
|----------------------|-------|-----------------|-------------|
| Maritime application | other | Dangerous goods | Environment |
|----------------------|-------|-----------------|-------------|

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

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)



Siemens EcoTech



|                    |  |
|--------------------|--|
| <b>Environment</b> |  |
|--------------------|--|

[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=3VA2440-7MP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2440-7MP32-0AA0>

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

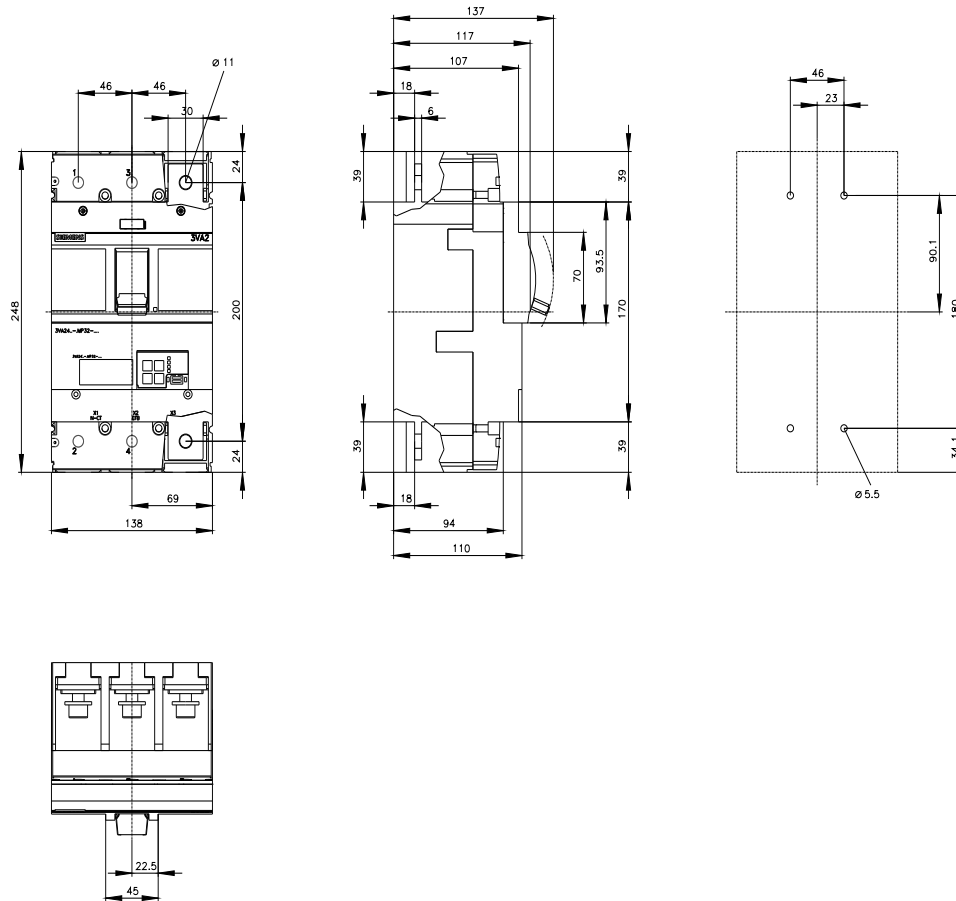
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-7MP32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-7MP32-0AA0)

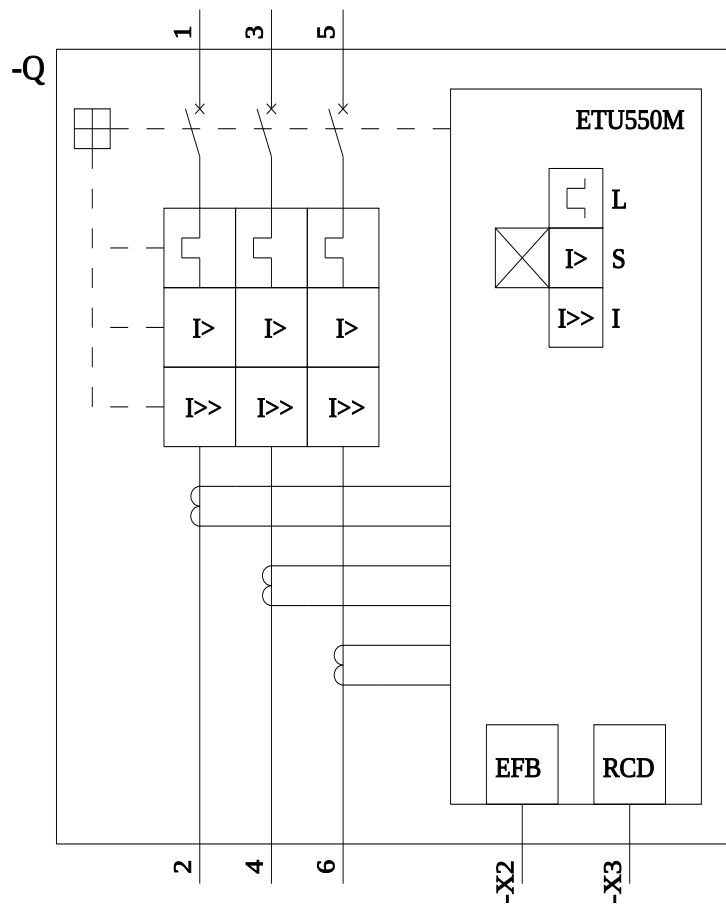
### CAX-Online-Generator

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

### Tender specifications

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





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