



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION ETU550M, LSI,  $I_n=400A$  OVERLOAD PROTECTION  $I_R=160A$  ...400A SHORT CIRCUIT PROTECTION  $ISD=1,2... 15X$   $I_N, I_t=3...15X$  IN BUSBAR CONNECTION

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brand name                             | SENTRON                     |
| product designation                            | Molded case circuit breaker |
| Product version                                | Motor protection            |
| design of the overcurrent release              | ETU550M                     |
| protection function of the overcurrent release | LSI                         |
| number of poles                                | 3                           |

| General technical data                                                                         |        |
|------------------------------------------------------------------------------------------------|--------|
| Tension assignée d'isolement $U_i$                                                             | 800 V  |
| Max. rated operational voltage $U_e$ with AC 50/60Hz                                           | 690 V  |
| power loss [W] / maximum                                                                       | 63.3 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 21.1 W |
| mechanical service life (switching cycles) / typical                                           | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 4 000  |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 4 000  |

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz | 3 000   |
| Neutral conductors / upgradeable/retrofitable                             | No      |
| ground fault monitoring version                                           | Without |
| product function                                                          |         |
| • communication function                                                  | Yes     |
| • phase failure detection                                                 | Yes     |
| • other measurement function                                              | No      |

## Current

|                                                  |       |
|--------------------------------------------------|-------|
| Max. rated operational current of the frame size | 630 A |
| Courant permanent assigné Iu                     | 400 A |
| operating 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 |

## Switching capacity according to IEC 60947

|                                                           |        |
|-----------------------------------------------------------|--------|
| switching capacity class of the circuit breaker           | M      |
| maximum short-circuit current breaking capacity (Icu)     |        |
| • at 240 V                                                | 85 kA  |
| • at 415 V                                                | 55 kA  |
| • at 440 V                                                | 55 kA  |
| • at 500 V                                                | 36 kA  |
| • at 690 V                                                | 6 kA   |
| operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V                                                | 85 kA  |
| • at 415 V                                                | 55 kA  |
| • at 440 V                                                | 55 kA  |
| • at 500 V                                                | 36 kA  |
| • at 690 V                                                | 6 kA   |
| short-circuit current making capacity (Icm)               |        |
| • at 240 V                                                | 187 kA |
| • at 415 V                                                | 121 kA |
| • at 440 V                                                | 121 kA |
| • at 500 V                                                | 76 kA  |
| • at 690 V                                                | 9 kA   |

## Adjustable parameters

|                                                            |         |
|------------------------------------------------------------|---------|
| Adjustable response value current / lg min.                | 160 A   |
| Adjustable response value current / lg min.                | 400 A   |
| Adjustable response value current / lg min.                | 480 A   |
| Adjustable response value current / lg min.                | 6 000 A |
| Adjustable response value current / lg min.                | 0.03 s  |
| Adjustable response value current / lg min.                | 0.03 s  |
| Adjustable response value current / li min.                | 1 200 A |
| Adjustable response value current / li max.                | 6 000 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No      |

## Mechanical Design

|             |        |
|-------------|--------|
| height [in] | 9.8 in |
| Height      | 248 mm |
| width [in]  | 5.4 in |
| Width       | 138 mm |
| depth [in]  | 4.3 in |
| depth       | 110 mm |

## Connections

|                                                                                         |                              |
|-----------------------------------------------------------------------------------------|------------------------------|
| 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-section, connection screw, width x thickness , min. | 20 x 1 mm                    |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 35 x 10 mm                   |

## 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   |
| ambient temperature                |        |
| • during operation / minimum       | -25 °C |
| • during operation / maximum       | 70 °C  |
| • during storage / minimum         | -40 °C |
| • during storage / maximum         | 80 °C  |

## Certificates

|                                         |   |
|-----------------------------------------|---|
| reference code / acc. to DIN EN 81346-2 | Q |
|-----------------------------------------|---|

| General Product Approval                                                                 |                                                                                          | EMC                                                                                             | Declaration of Conformity                                                                  |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EAC        | <br>RCM |
| <a href="#">Miscellaneous</a>                                                            |                                                                                          | <br>EG-Konf. |                                                                                            |

| Test Certificates             | Shipping Approval                                                                        | other                                              |
|-------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------|
| <a href="#">Miscellaneous</a> | <a href="#">Special Test Certificate</a>                                                 | <a href="#">CCS / China Classification Society</a> |
|                               | <br>LRS | <a href="#">Manufacturer Declaration</a>           |
|                               |                                                                                          | <a href="#">Miscellaneous</a>                      |

#### Further information

##### 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=3VA2440-5MP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2440-5MP32-0AA0>

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

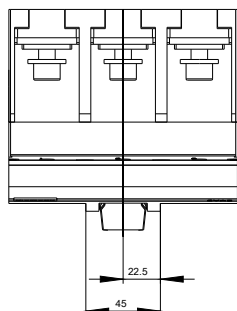
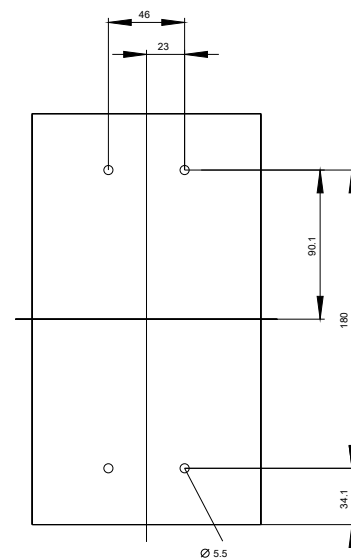
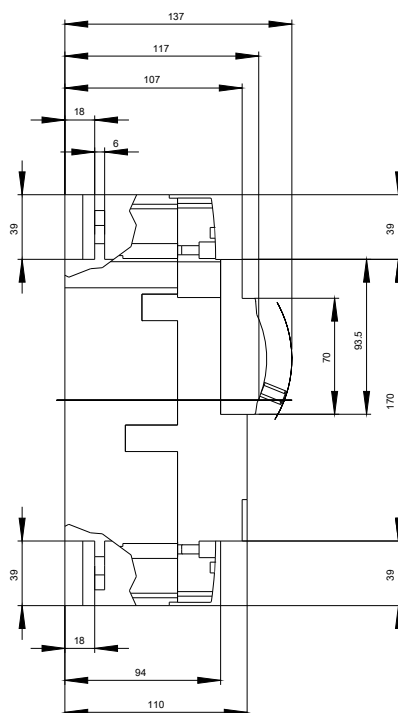
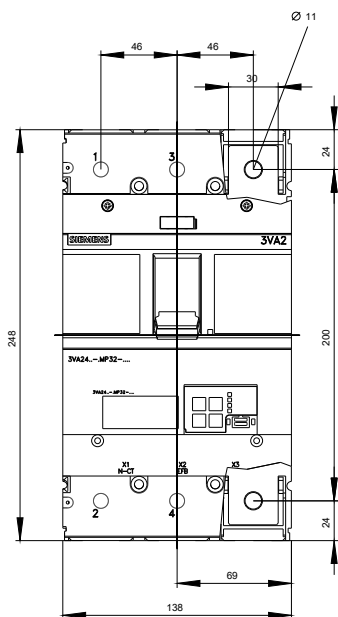
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-5MP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-5MP32-0AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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



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