



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION ETU550M, LSI, In=63A OVERLOAD PROTECTION IR=25,2A ...63A SHORT CIRCUIT PROTECTION ISD=1,2... 15X IN,II=3...15X IN BUSBAR CONNECTION

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brand name                             | SETRON                      |
| 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 Ui                                                                | 800 V    |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V    |
| operating power / at AC-3 / at 400 V                                                           | 30 000 W |
| operating power / at AC-3 / at 230 V                                                           | 18 500 W |
| power loss [W] / maximum                                                                       | 10 W     |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 3.33 W   |
| mechanical service life (switching cycles) / typical                                           | 20 000   |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 12 000   |

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz     | 8 000   |
| Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz | 7 500   |
| 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 | 160 A |
| Courant permanent assigné Iu                     | 63 A  |
| operating current                                |       |
| • at 40 °C                                       | 63 A  |
| • at 45 °C                                       | 63 A  |
| • at 50 °C                                       | 63 A  |
| • at 55 °C                                       | 63 A  |
| • at 60 °C                                       | 63 A  |
| • at 65 °C                                       | 63 A  |
| • at 70 °C                                       | 63 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                                                | 2.5 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                                                | 2.5 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                                                | 3.8 kA |

| Adjustable parameters                                                   |        |
|-------------------------------------------------------------------------|--------|
| Adjustable response value current / I <sub>g</sub> min.                 | 25 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 63 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 76 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 945 A  |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.03 s |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.03 s |
| Adjustable response value current / I <sub>i</sub> min.                 | 189 A  |
| Adjustable response value current / I <sub>i</sub> max.                 | 945 A  |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No     |

| Mechanical Design |        |
|-------------------|--------|
| height [in]       | 7.1 in |
| Height            | 181 mm |
| width [in]        | 4.1 in |
| Width             | 105 mm |
| depth [in]        | 3.4 in |
| depth             | 86 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. | 13 x 1 mm                    |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8.5 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 |
|--------------------------|-----|
|--------------------------|-----|



CCC



VDE

**CB**

CB

[Miscellaneous](#)



RCM

| Declaration of Conformity | Test Certificates | Shipping Approval | other |
|---------------------------|-------------------|-------------------|-------|
|---------------------------|-------------------|-------------------|-------|



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)



LRS

[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

| other |
|-------|
|-------|

[Miscellaneous](#)

## 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=3VA2163-5MP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-5MP32-0AA0>

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

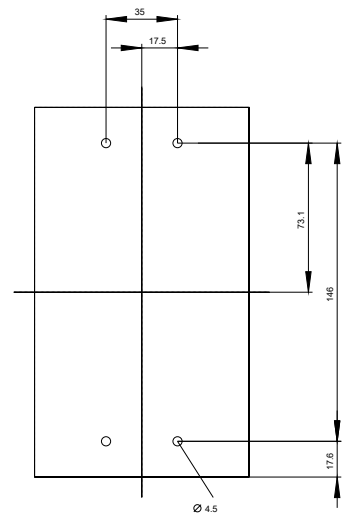
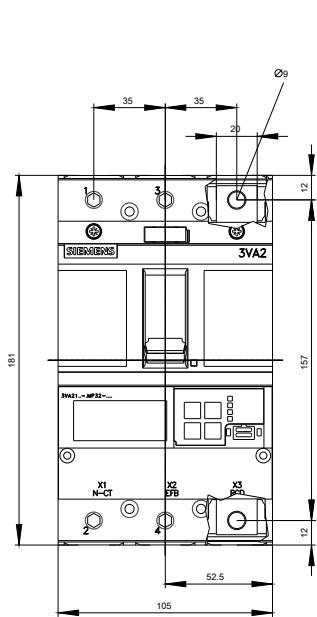
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-5MP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-5MP32-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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



last modified:

10/30/2020