



circuit breaker 3VA1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 3-pole, line protection TM240, ATAM, In=63A overload protection Ir=44A...63A short-circuit protection Ii=5...10 x In clamp connection

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| Product version | Line protection |
| design of the overcurrent release | TM240 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| General technical data | |
| rated insulation voltage Ui | 800 V |
| Max. rated operational voltage Ue with DC | 500 V |
| power loss [W] / maximum | 17.3 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 5.77 W |
| mechanical service life (switching cycles) / typical | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 9 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 6 300 |
| Neutral conductors / upgradeable/retrofitable | No |
| ground-fault monitoring version | Without |
| product function | |
| • communication function | No |
| • other measurement function | No |
| net weight | 0.1 kg |
| Current | |
| Max. rated operational current of the frame size | 160 A |
| Courant permanent assigné Iu | 63 A |
| operational current | |
| • at 40 °C | 63 A |
| • at 45 °C | 63 A |
| • at 50 °C | 63 A |
| • at 55 °C | 62 A |
| • at 60 °C | 61 A |
| • at 65 °C | 60 A |
| • at 70 °C | 58 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | M |
| breaking capacity maximum short-circuit current (Icu) | |



| | |
|--|--|
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 85 kA |
| | 55 kA |
| | 36 kA |
| | 10 kA |
| | 10 kA |
| breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 85 kA |
| | 55 kA |
| | 36 kA |
| | 5 kA |
| | 5 kA |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 187 kA |
| | 121 kA |
| | 75.6 kA |
| | 17 kA |
| | 17 kA |
| design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |
| Adjustable parameters | |
| Adjustable response value current / li min. | 315 A |
| Adjustable response value current / li max. | 630 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
| Mechanical Design | |
| height [in] | 5.12 in |
| Height | 130 mm |
| width [in] | 3 in |
| Width | 76.2 mm |
| depth [in] | 2.76 in |
| depth | 70 mm |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Front terminal |
| type of electrical connection / for main current circuit | box terminal on both sides |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (1.5 - 70 mm ²) |
| 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 <ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum | -25 °C |
| | 70 °C |
| | -40 °C |
| | 80 °C |
| Certificates | |
| reference code / acc. to IEC 81346-2 | Q |
| General Product Approval | EMC |







[Miscellaneous](#)

[KC](#)



| Declaration of Conformity | | Test Certificates | | | Marine / Shipping |
|---|--|-------------------------------|--|--|--|
|  EG-Konf. | UK Declaration of Conformity | Miscellaneous | Type Test Certificates/Test Report | Special Test Certificate |  ABS |

| Marine / Shipping | | | | | other |
|---|--|---|--|---|-------------------------------|
|  |  LRS |  RMRS | CCS / China Classification Society |  | Miscellaneous |

| 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=3VA1163-5EF36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-5EF36-0AA0>

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

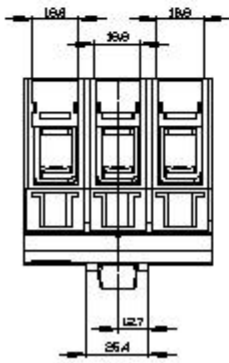
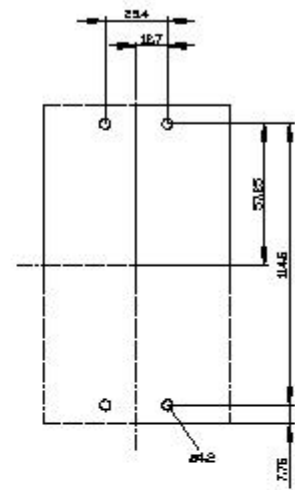
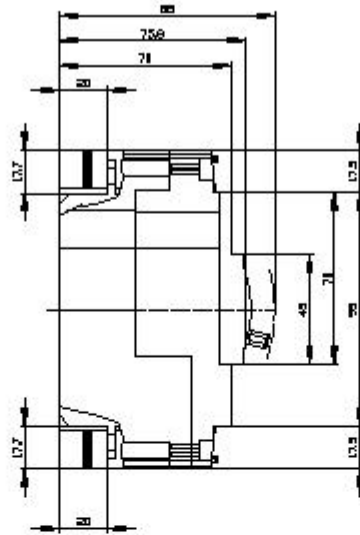
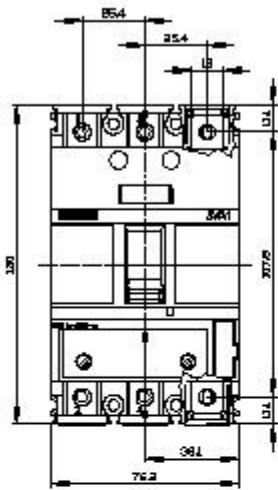
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1163-5EF36-0AA0

CAx-Online-Generator

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

Tender specifications

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





last modified:

8/10/2021 