



circuit breaker 3VA2 IEC Frame 1000 breaking capacity class M Icu=55 kA @ 415 V 3-pole, line protection ETU320, LI, In=800 A overload protection Ir=320 A...800 A short-circuit protection Ii=1.5...12 x In nut keeper kit 1 auxiliary switch HQ 1 trip alarm switch HQ

| Model | |
|---|---|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| design of the product | Line protection |
| design of the overcurrent release | ETU320 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| design of the auxiliary release | Without auxiliary release |
| design of the auxiliary switch | 1 auxiliary switch + 1 trip alarm switch HQ |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 231 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 77 W |
| mechanical service life (operating cycles) / typical | 10 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 4 600 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 3 200 |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No |
| ground-fault monitoring version | Without |
| product function | |
| • communication function | No |
| • other measurement function | No |
| Net Weight | 14.2 kg |
| Current | |
| operational current | |
| • at 40 °C | 800 A |
| • at 45 °C | 800 A |
| • at 50 °C | 800 A |
| • at 55 °C | 800 A |
| • at 60 °C | 800 A |
| • at 65 °C | 767 A |
| • at 70 °C | 703 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 |

| | |
|--|--|
| <ul style="list-style-type: none"> • at 440 V • at 500 V • at 690 V | 55 kA 36 kA 25 kA |
| operating short-circuit current breaking capacity (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 55 kA 36 kA 19 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 121 kA 75.5 kA 52.5 kA |
| Adjustable parameters | |
| product feature / for L-tripping / can be switched on/off | No |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic | |
| <ul style="list-style-type: none"> • minimum • maximum | 320 A 800 A |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic | |
| <ul style="list-style-type: none"> • minimum • maximum | 0.5 s 17 s |
| adjustable response value setting current (Ii) / for I-tripping | |
| <ul style="list-style-type: none"> • minimum • maximum | 1 200 A 8 000 A |
| adjustable setting current (InN) / for N-tripping | |
| <ul style="list-style-type: none"> • minimum • maximum | 0 A 0 A |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| <ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator | No No Yes |
| height [in] | 12.6 in |
| height | 320 mm |
| width [in] | 8.27 in |
| width | 210 mm |
| depth [in] | 4.72 in |
| depth | 120 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-sections / for flat-bar terminal connection / minimum | 20 x 4 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 50 x 28 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 |
| Auxiliary circuit | |
| number of CO contacts / for auxiliary contacts | 2 |
| Accessories | |
| product extension / optional / motor drive | No |
| manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied basic switch | #BEZUG! |

- of the integrated auxiliary switch/alarm switch
- of the integrated auxiliary switch/alarm switch

[3VA9988-0AA12](#)

[3VA9988-0AB12](#)

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 |
| reference code / according to IEC 81346-2 | Q |

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



[Confirmation](#)



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



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



| | | | | | |
|----------------------|-------|--|--|--|--|
| Maritime application | other | | | | |
|----------------------|-------|--|--|--|--|



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

[Miscellaneous](#)

| | | | | | |
|-------|-----------------|-------------|--|--|--|
| other | Dangerous goods | Environment | | | |
|-------|-----------------|-------------|--|--|--|

[Miscellaneous](#)

[Confirmation](#)



[Transport Information](#)

[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=3VA2580-5HL32-0AF0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-5HL32-0AF0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-5HL32-0AF0

CAX-Online-Generator

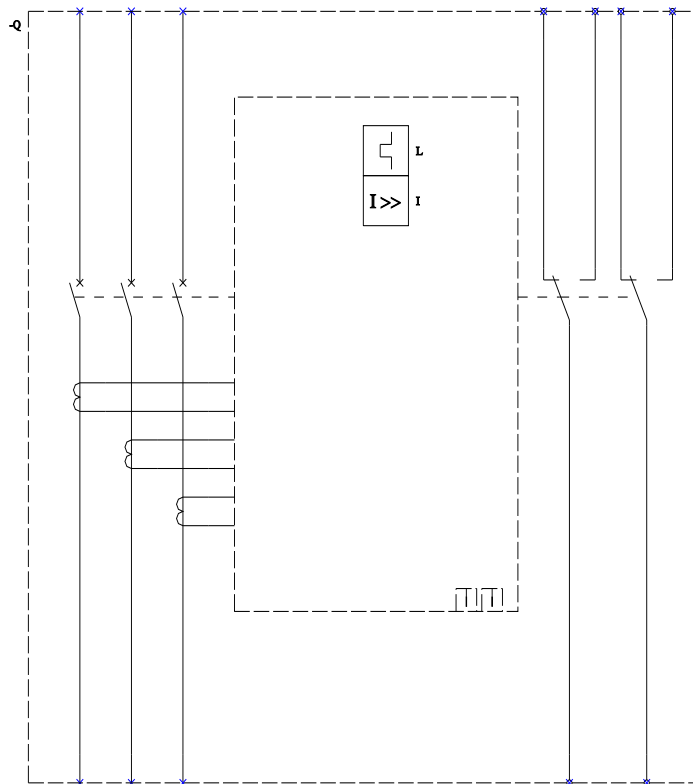
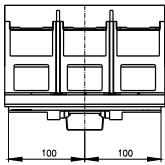
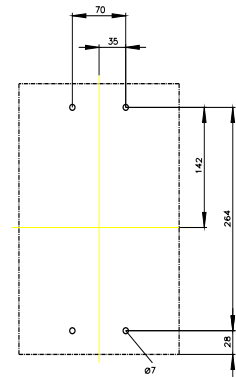
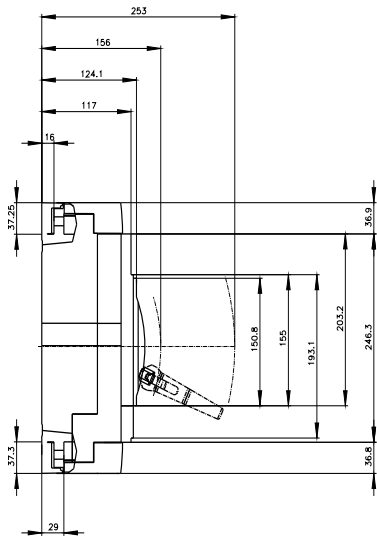
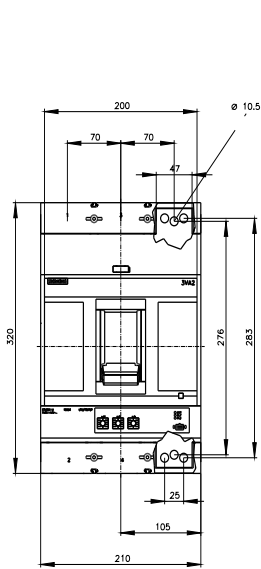
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



L (Long Time Delay / Überlastschutz); I (Instantaneous / Kurzschlusschutz, unverzögert);

