

fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; Icu "H" Icu=85kA @ 415V, 3-pole ETU350, LSI, In=1250A rotary coding switch Ir=500...1250A I_{sd}=1...10xI_n, I_i=1.5...15xI_n N conductor protec. adjustable opt. w. ext. CT; up to 200% nut keeper kit No communication connection, no measurement function With trip alarm switch TAS and trip alarm switch S25 With mechanical calling without 2nd auxiliary release without 1st auxiliary release

| Model | |
|---|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| design of the product | MCCB |
| design of the actuating element | toggel handle actuator |
| type of the driving mechanism | manual operating mechanism |
| type of the driving mechanism / motor drive | No |
| design of the overcurrent release | ETU350 |

| General technical data | |
|--|--------|
| number of poles | 3 |
| size of the circuit-breaker | 1600 A |
| mechanical service life (switching cycles) / typical | 1 000 |
| circuit-breaker / Design | 3VA2 |

| Voltage | |
|---|---------|
| insulation voltage / rated value | 1 000 V |
| operating voltage | |
| • at AC / at 50/60 Hz / rated value | 690 V |
| protection class IP | IP20 |
| protection class IP / on the front | IP20 |
| protection function of the overcurrent release | LSI |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 47 W |

| Current | |
|--|---------|
| continuous current / rated value | 1 250 A |
| adjustable current response value current | |
| • of the current-dependent overload release / full-scale value | 1 250 A |
| • of instantaneous short-circuit trip unit / initial value | 1 875 A |

| | |
|---|----------|
| <ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / full-scale value | 18 750 A |
| short-time withstand current (I _{cw}) | |
| <ul style="list-style-type: none"> • limited to 1 s / rated value | 20 kA |
| <ul style="list-style-type: none"> • at AC / at 415 V / limited to 0.5 s / rated value | 20 kA |

Main circuit

| | |
|--|---------|
| operational current | |
| <ul style="list-style-type: none"> • at 40 °C / rated value | 1 250 A |
| <ul style="list-style-type: none"> • at 50 °C / rated value | 1 250 A |
| <ul style="list-style-type: none"> • at 55 °C / rated value | 1 240 A |
| <ul style="list-style-type: none"> • at 60 °C / rated value | 1 182 A |
| <ul style="list-style-type: none"> • at 65 °C / rated value | 1 122 A |
| <ul style="list-style-type: none"> • at 70 °C / rated value | 1 057 A |

Auxiliary circuit

| | |
|--|---|
| number of CO contacts / for auxiliary contacts | 4 |
|--|---|

Suitability

| | |
|---------------------|-------------------|
| suitability for use | system protection |
|---------------------|-------------------|

Adjustable parameters

| | |
|--|----------|
| adjustable current response value current | |
| <ul style="list-style-type: none"> • of the short-time delayed short-circuit release / initial value | 1 250 A |
| <ul style="list-style-type: none"> • of the short-time delayed short-circuit release / full-scale value | 12 500 A |
| adjustable current response value current / of the current-dependent overload release / initial value | 500 A |
| product component | |
| <ul style="list-style-type: none"> • trip indicator | Yes |
| <ul style="list-style-type: none"> • voltage trigger | No |
| <ul style="list-style-type: none"> • undervoltage release | No |
| product extension / optional / motor drive | No |

Product function

| | |
|--|----|
| product function | |
| <ul style="list-style-type: none"> • grounding protection | No |

Display and operation

| | |
|-----------------|-----------------|
| display version | Without display |
|-----------------|-----------------|

Short circuit

| | |
|---|-------|
| <ul style="list-style-type: none"> • breaking capacity operating short-circuit current (I_{cs}) / at 415 V / rated value | 85 kA |
| <ul style="list-style-type: none"> • breaking capacity operating short-circuit current (I_{cs}) / at 500 V / rated value | 55 kA |

| | |
|--|-------|
| • breaking capacity operating short-circuit current (Ics) / at 690 V / rated value | 36 kA |
| • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value | 85 kA |
| • breaking capacity maximum short-circuit current (Icu) / at 440 V / rated value | 85 kA |
| • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value | 55 kA |
| • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value | 36 kA |

Connections

| | |
|---|-------------------------------|
| arrangement of electrical connectors / for main current circuit | Main connection on front side |
| type of electrical connection | |
| • for main current circuit | busbar connection |

Mechanical Design

| | |
|------------------|----------------|
| height | 296 mm |
| width | 210 mm |
| depth | 183 mm |
| fastening method | fixed mounting |
| net weight | 14 kg |

Environmental conditions

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

Certificates

| | |
|--------------------------|---|
| reference code | |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to IEC 81346-2 | Q |

| | | | |
|---------------------------------|----------------------------------|--------------------------|--------------|
| General Product Approval | Declaration of Conformity | Test Certificates | other |
|---------------------------------|----------------------------------|--------------------------|--------------|



[Miscellaneous](#)



[Miscellaneous](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-6AC03-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-6AC03-1AA0>

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

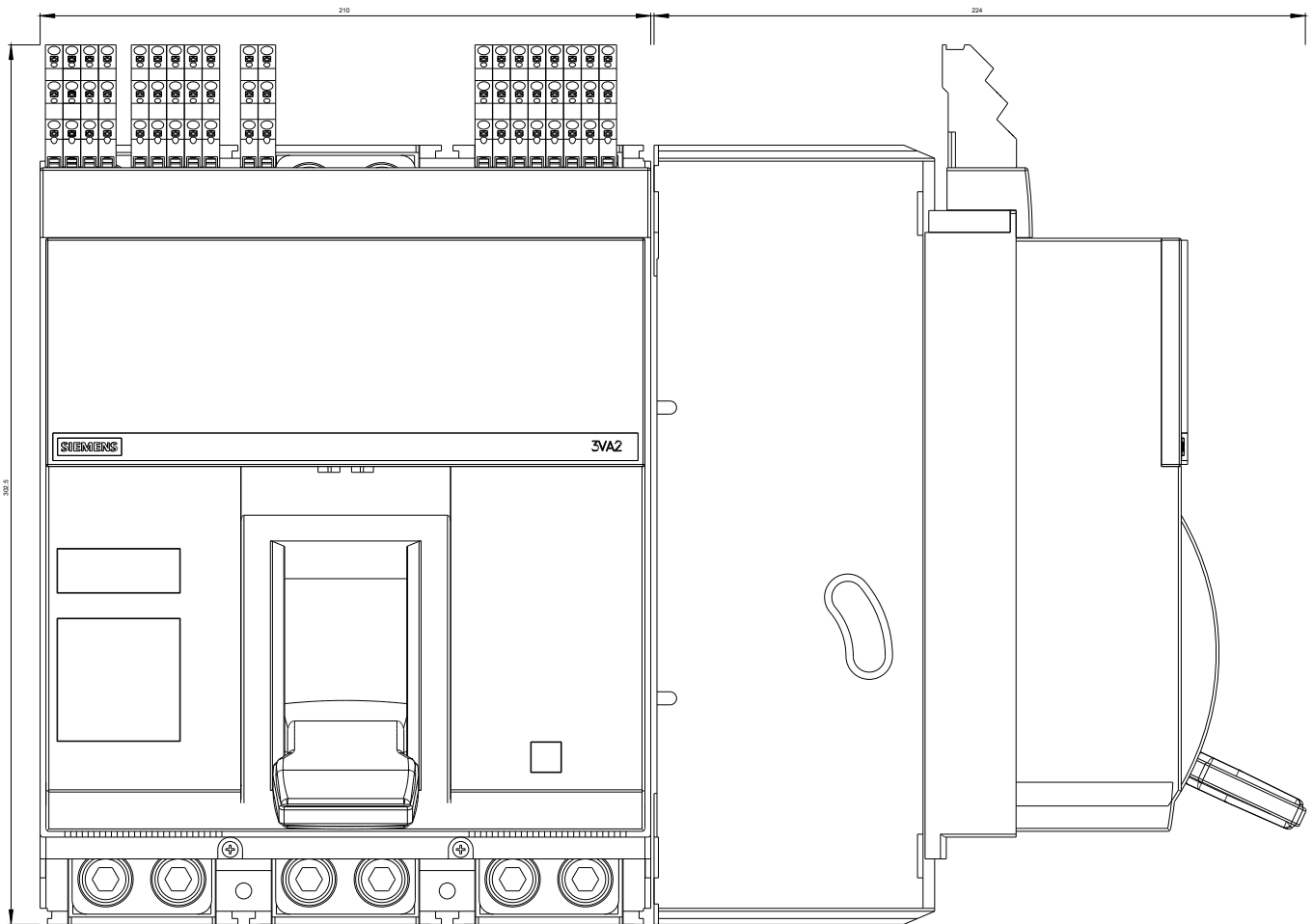
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-6AC03-1AA0

CAX-Online-Generator

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

Tender specifications

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



last modified:

11/26/2020