

molded case switch 3VA5 UL frame 800 max short-circuit curr. rating 65kA @ 480 V 3-pole MCS110, In=800A without overload protection self protection li=12 x In busbar connection



| Model | |
|---|-----------------------------|
| Product brand name | SENTRON |
| Product designation | Molded-case circuit breaker |
| Product designation / according to UL file | HMAS |
| Product version | Molded case switch |
| Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| Design of the overcurrent release | MCS110 |
| Protective function of the overcurrent release | I |
| Number of poles | 3 |
| General technical data | |
| Rated insulation voltage Ui | 750 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 600 V |
| Max. rated operational voltage Ue with DC | 500 V |
| Power loss [W] / maximum | 210 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 70 W |
| Mechanical service life (switching cycles) / typical | 10 000 |

| | |
|---|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 5 800 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 4 000 |
| Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz | 5 800 |
| Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz | 4 000 |
| Neutral conductors / upgradeable/retrofittable | No |
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | No |
| • other measurement function | No |

Current

| | |
|--|-------|
| Marking / acc. to UL 489 / 100%-rated breaker | No |
| Max. rated operational current of the frame size | 800 A |
| Rated continuous current I _u | 800 A |

Switching capacity according to IEC 60947

| | |
|------------------------------------|--|
| 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 / I _{li} min. | 9 600 A |
| Adjustable response value current / I _{li} max. | 9 600 A |
| Ground fault protection / tripping switchable / I _{2t} =ON/OFF | No |

Mechanical Design

| | |
|-------------|---------|
| Height [in] | 12.6 in |
| Height | 328 mm |
| Width [in] | 8.3 in |
| Width | 210 mm |
| Depth [in] | 4.7 in |
| Depth | 120 mm |

Connections

| | |
|---|------------------|
| Arrangement of electrical connectors / for main current circuit | Front connection |
|---|------------------|

Auxiliary circuit

| | |
|--|---|
| Number of CO contacts / for auxiliary contacts | 0 |
|--|---|

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 |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | No |

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=3VA5580-0BB32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5580-0BB32-0AA0>

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

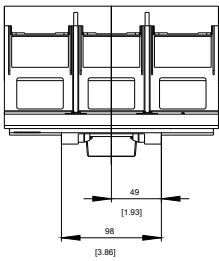
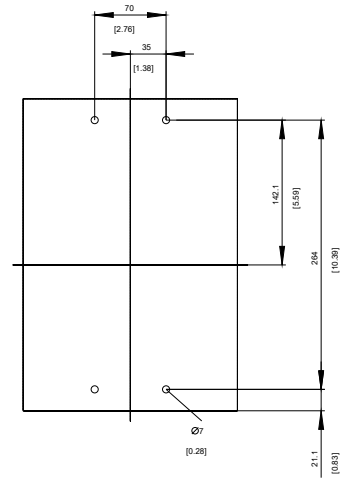
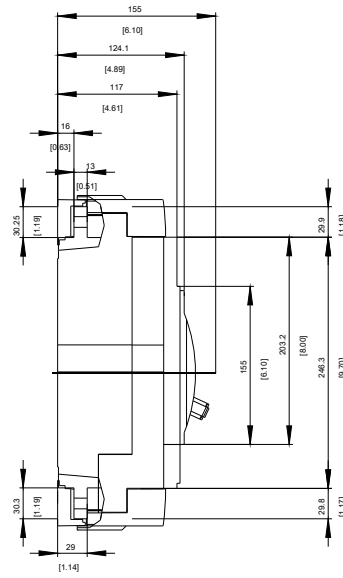
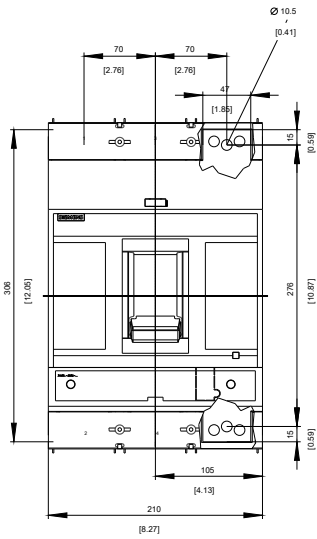
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5580-0BB32-0AA0

CAX-Online-Generator

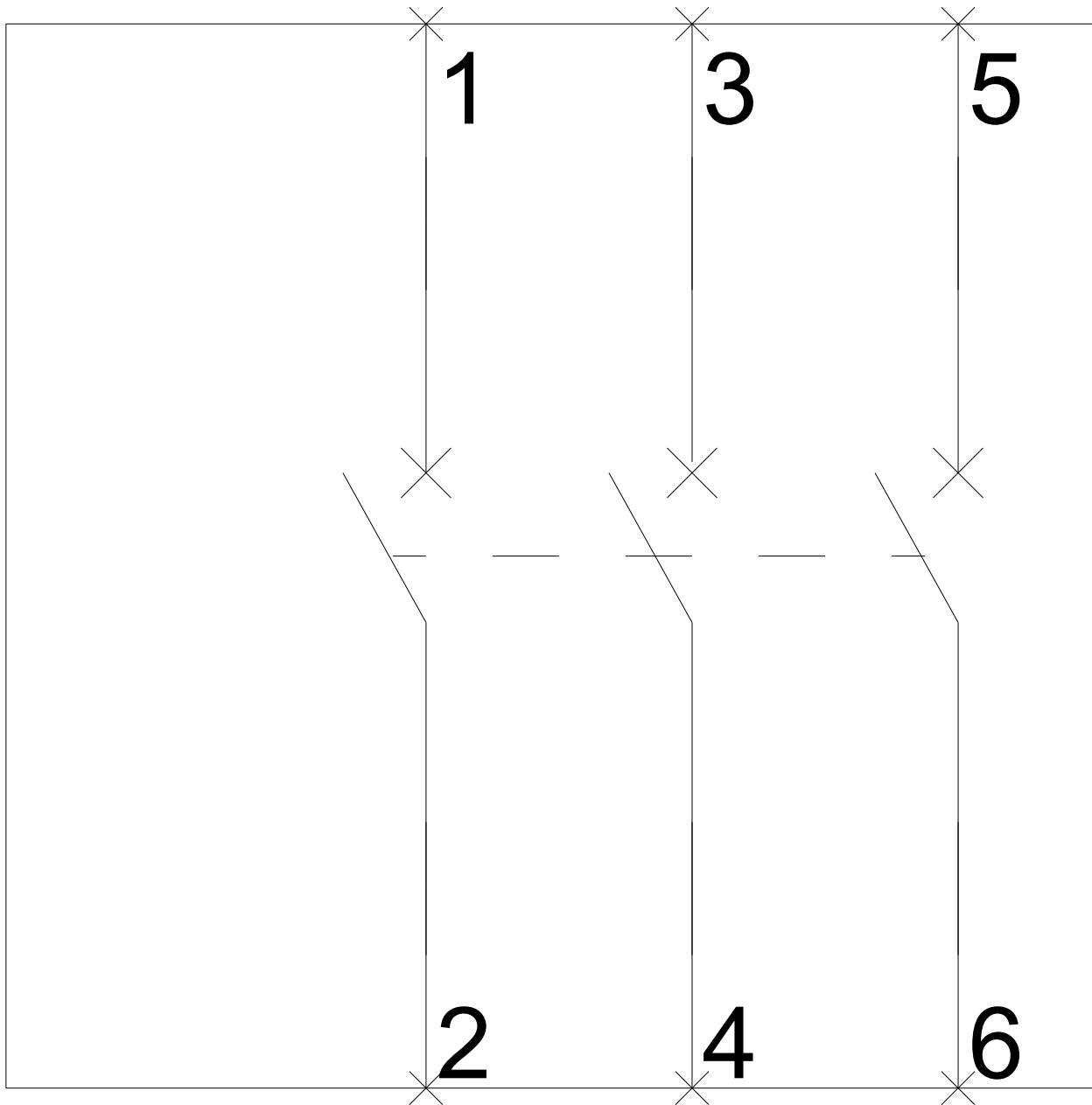
<http://www.siemens.com/cax>

Tender specifications

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



-Q



last modified:

06/10/2020