



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=100A overload protection Ir=100A fixed short-circuit protection li=10 x In clamp connection

| Model                                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                                    | SETRON                                                                                                                                                         |
| product designation                                                                                                   | Molded-case circuit breaker                                                                                                                                    |
| Product version                                                                                                       | System protection                                                                                                                                              |
| design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                                                                                                                                                            |
| design of the overcurrent release                                                                                     | TM210                                                                                                                                                          |
| protection function of the overcurrent release                                                                        | LI                                                                                                                                                             |
| number of poles                                                                                                       | 2                                                                                                                                                              |
| General technical data                                                                                                |                                                                                                                                                                |
| power loss [W] / maximum                                                                                              | 15.2 W                                                                                                                                                         |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 7.6 W                                                                                                                                                          |
| mechanical service life (switching cycles) / typical                                                                  | 15 000                                                                                                                                                         |
| electrical endurance (switching cycles) / at 480 V                                                                    | 8 000                                                                                                                                                          |
| electrical endurance (switching cycles) / at 600 V                                                                    | 4 000                                                                                                                                                          |
| Neutral conductors / upgradeable/retrofitable                                                                         | 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                                                                      | 125 A                                                                                                                                                          |
| Courant permanent assigné lu                                                                                          | 100 A                                                                                                                                                          |
| operational current                                                                                                   |                                                                                                                                                                |
| • at 40 °C                                                                                                            | 100 A                                                                                                                                                          |
| • at 45 °C                                                                                                            | 98 A                                                                                                                                                           |
| • at 50 °C                                                                                                            | 96 A                                                                                                                                                           |
| • at 55 °C                                                                                                            | 93 A                                                                                                                                                           |
| • at 60 °C                                                                                                            | 91 A                                                                                                                                                           |
| • at 65 °C                                                                                                            | 89 A                                                                                                                                                           |
| • at 70 °C                                                                                                            | 87 A                                                                                                                                                           |
| Switching capacity according to IEC 60947                                                                             |                                                                                                                                                                |
| switching capacity class of the circuit breaker                                                                       | S                                                                                                                                                              |
| 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 |

| Switching capacity according to UL 489                                          |  |                                        |       |
|---------------------------------------------------------------------------------|--|----------------------------------------|-------|
| breaking capacity current                                                       |  |                                        |       |
| • at 240 V                                                                      |  | 65 kA                                  |       |
| • at 480 Y/277 V                                                                |  | 25 kA                                  |       |
| • at 480 V                                                                      |  | 25 kA                                  |       |
| • at 600 Y/347 V                                                                |  | 14 kA                                  |       |
| Adjustable parameters                                                           |  |                                        |       |
| Adjustable response value current / li min.                                     |  | 1 000 A                                |       |
| Adjustable response value current / li max.                                     |  | 1 000 A                                |       |
| Ground fault protection / tripping switchable / I2t=ON/OFF                      |  | No                                     |       |
| Mechanical Design                                                               |  |                                        |       |
| height [in]                                                                     |  | 5.1 in                                 |       |
| Height                                                                          |  | 129.4 mm                               |       |
| width [in]                                                                      |  | 2 in                                   |       |
| Width                                                                           |  | 50.8 mm                                |       |
| depth [in]                                                                      |  | 3 in                                   |       |
| depth                                                                           |  | 75.1 mm                                |       |
| Connections                                                                     |  |                                        |       |
| arrangement of electrical connectors / for main current circuit                 |  | Load side: Circular conductor terminal |       |
| type of electrical connection / for main current circuit                        |  | Infeed side: Low tab                   |       |
| Type of connectable conductor cross-section, round conductor terminal, stranded |  | 1 x (8 AWG - 3/0)                      |       |
| Auxiliary circuit                                                               |  |                                        |       |
| number of CO contacts / for auxiliary contacts                                  |  | 0                                      |       |
| Accessories                                                                     |  |                                        |       |
| product extension / optional / motor drive                                      |  | No                                     |       |
| 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 IEC 81346-2                                            |  | Q                                      |       |
| General Product Approval                                                        |  | EMC                                    | other |



[Miscellaneous](#)



[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=3VA4110-4ED24-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4110-4ED24-0AA0>

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

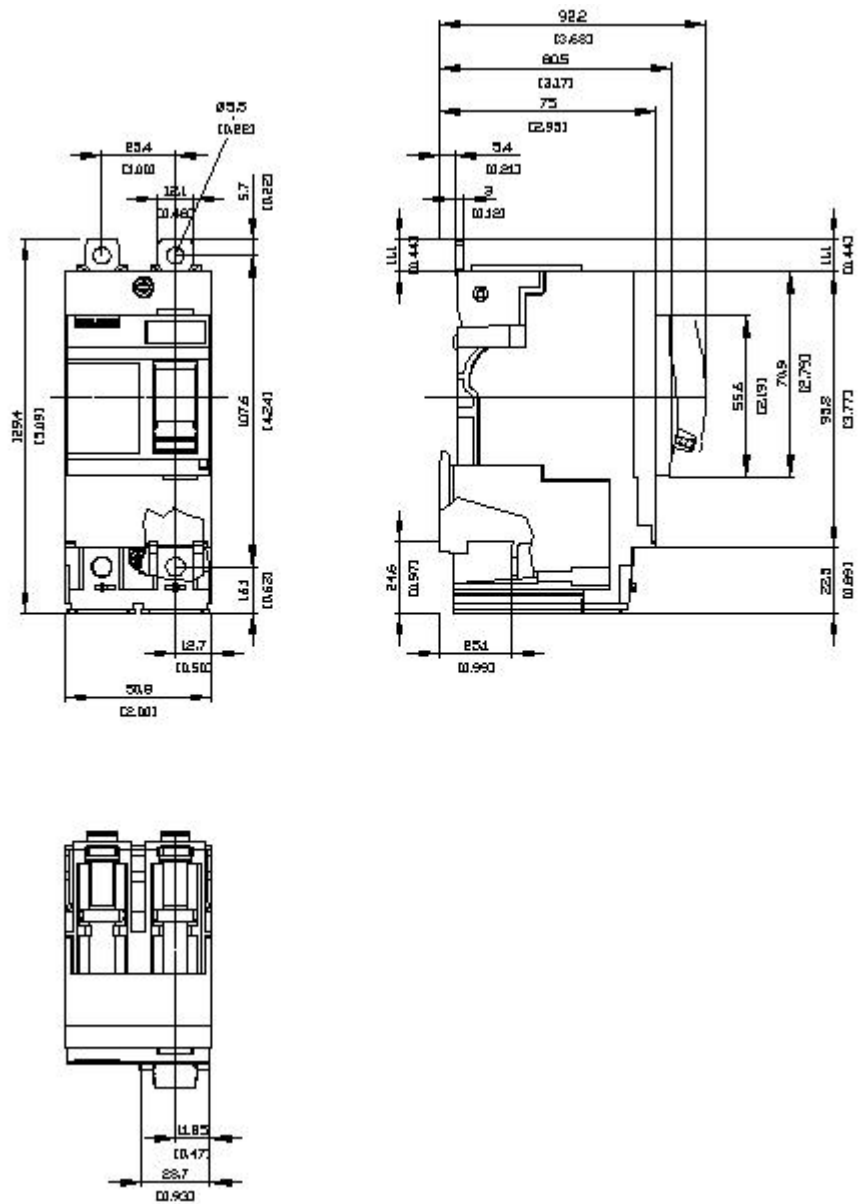
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA4110-4ED24-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4110-4ED24-0AA0)

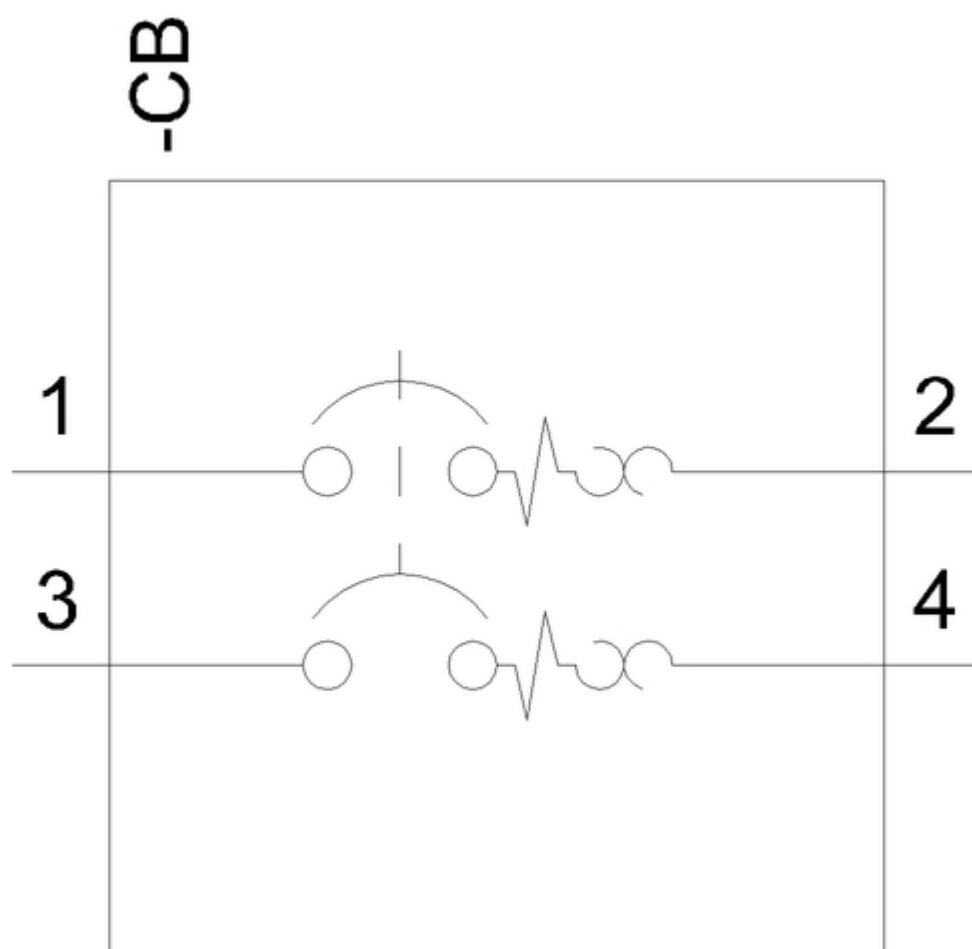
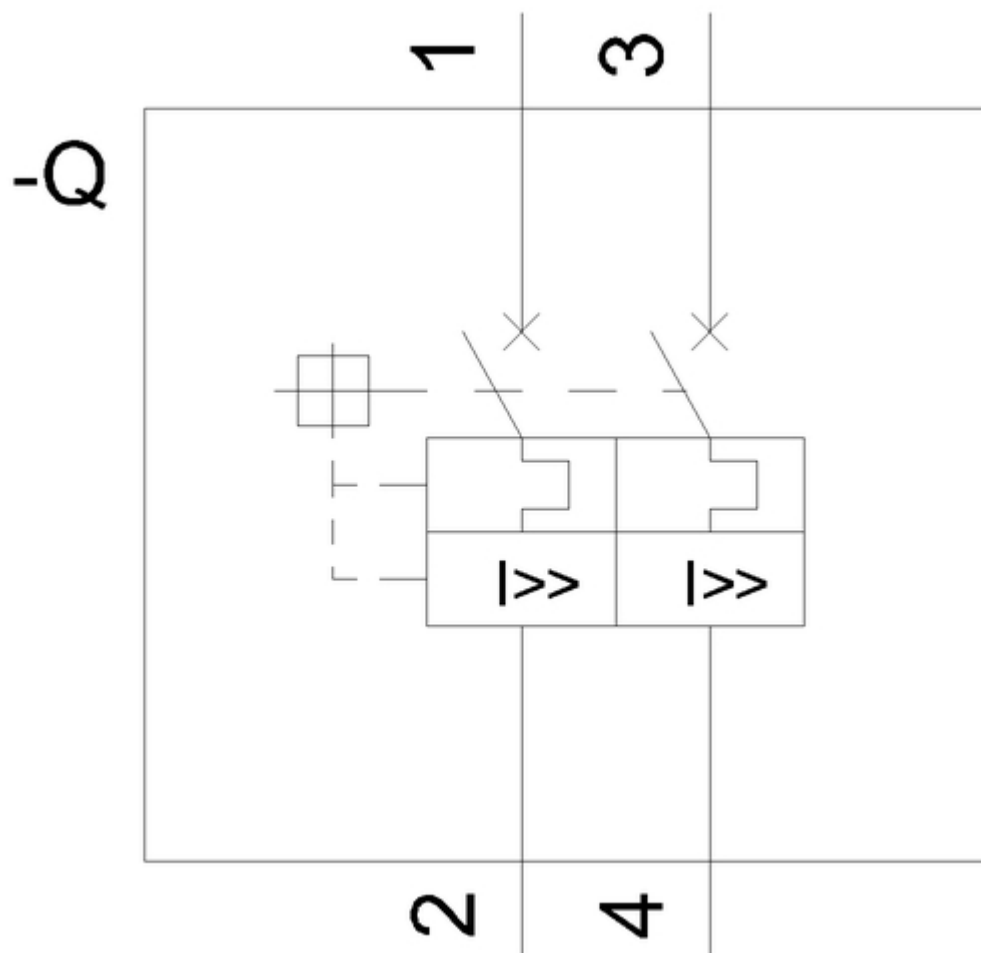
CAX-Online-Generator

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

Tender specifications

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





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