



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=15A overload protection Ir=15A fixed short-circuit protection li=20 x In clamp connection

| Model                                                                                                                 |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                    | SENTRON                     |
| product designation                                                                                                   | Molded-case circuit breaker |
| product designation / according to UL file                                                                            | SEAB                        |
| 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 load switch / acc. to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)                      | Yes                         |
| design of the load switch / acc. to UL 489 / Switching Duty circuit breaker (SWD Type)                                | Yes                         |
| design of the overcurrent release                                                                                     | TM210                       |
| protection function of the overcurrent release                                                                        | LI                          |
| number of poles                                                                                                       | 1                           |
| General technical data                                                                                                |                             |
| power loss [W] / maximum                                                                                              | 3.3 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 3.3 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                                                                                          | 15 A                        |
| operational current                                                                                                   |                             |
| • at 40 °C                                                                                                            | 15 A                        |
| • at 45 °C                                                                                                            | 15 A                        |
| • at 50 °C                                                                                                            | 14 A                        |
| • at 55 °C                                                                                                            | 14 A                        |
| • at 60 °C                                                                                                            | 14 A                        |
| • at 65 °C                                                                                                            | 13 A                        |
| • at 70 °C                                                                                                            | 13 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 120 V                                                                            |  | 65 kA                                                                                                                                                          |       |
| • at 277 V                                                                            |  | 25 kA                                                                                                                                                          |       |
| • at 347 V                                                                            |  | 14 kA                                                                                                                                                          |       |
| Adjustable parameters                                                                 |  |                                                                                                                                                                |       |
| Adjustable response value current / li min.                                           |  | 300 A                                                                                                                                                          |       |
| Adjustable response value current / li max.                                           |  | 300 A                                                                                                                                                          |       |
| Ground fault protection / tripping switchable / I2t=ON/OFF                            |  | No                                                                                                                                                             |       |
| Mechanical Design                                                                     |  |                                                                                                                                                                |       |
| height [in]                                                                           |  | 5.1 in                                                                                                                                                         |       |
| Height                                                                                |  | 129.4 mm                                                                                                                                                       |       |
| width [in]                                                                            |  | 1 in                                                                                                                                                           |       |
| Width                                                                                 |  | 25.4 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 (14 AWG - 8 AWG)                                                                                                                                           |       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) |  | Tin                                                                                                                                                            |       |
| 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](#)

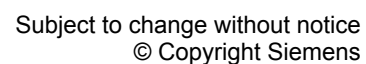


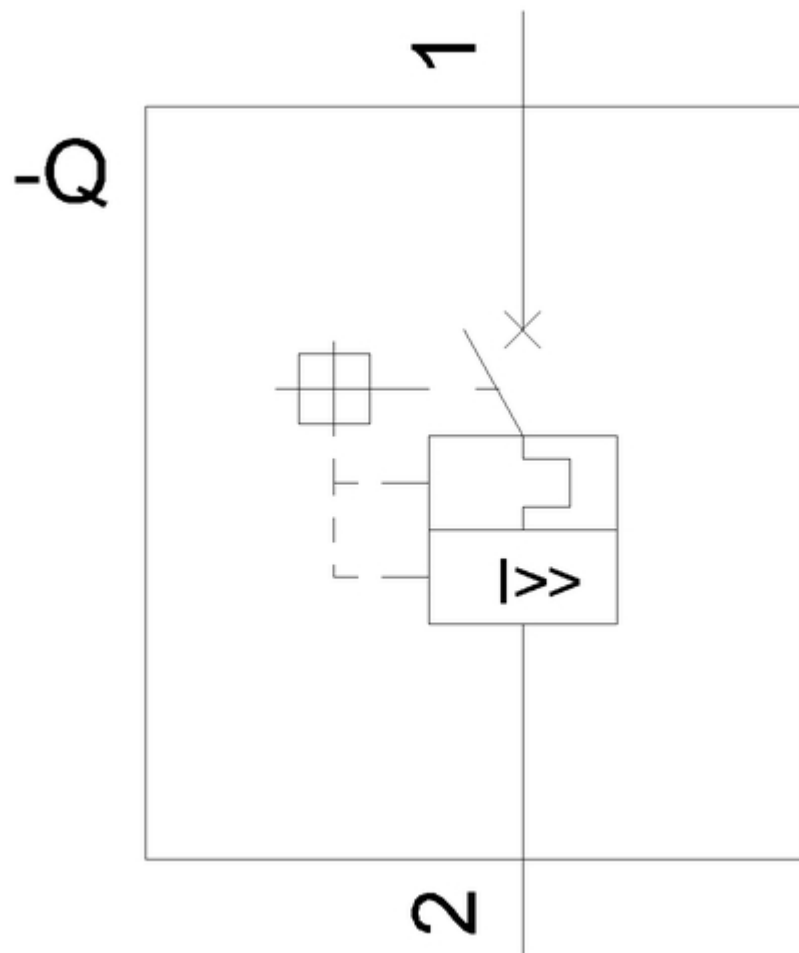
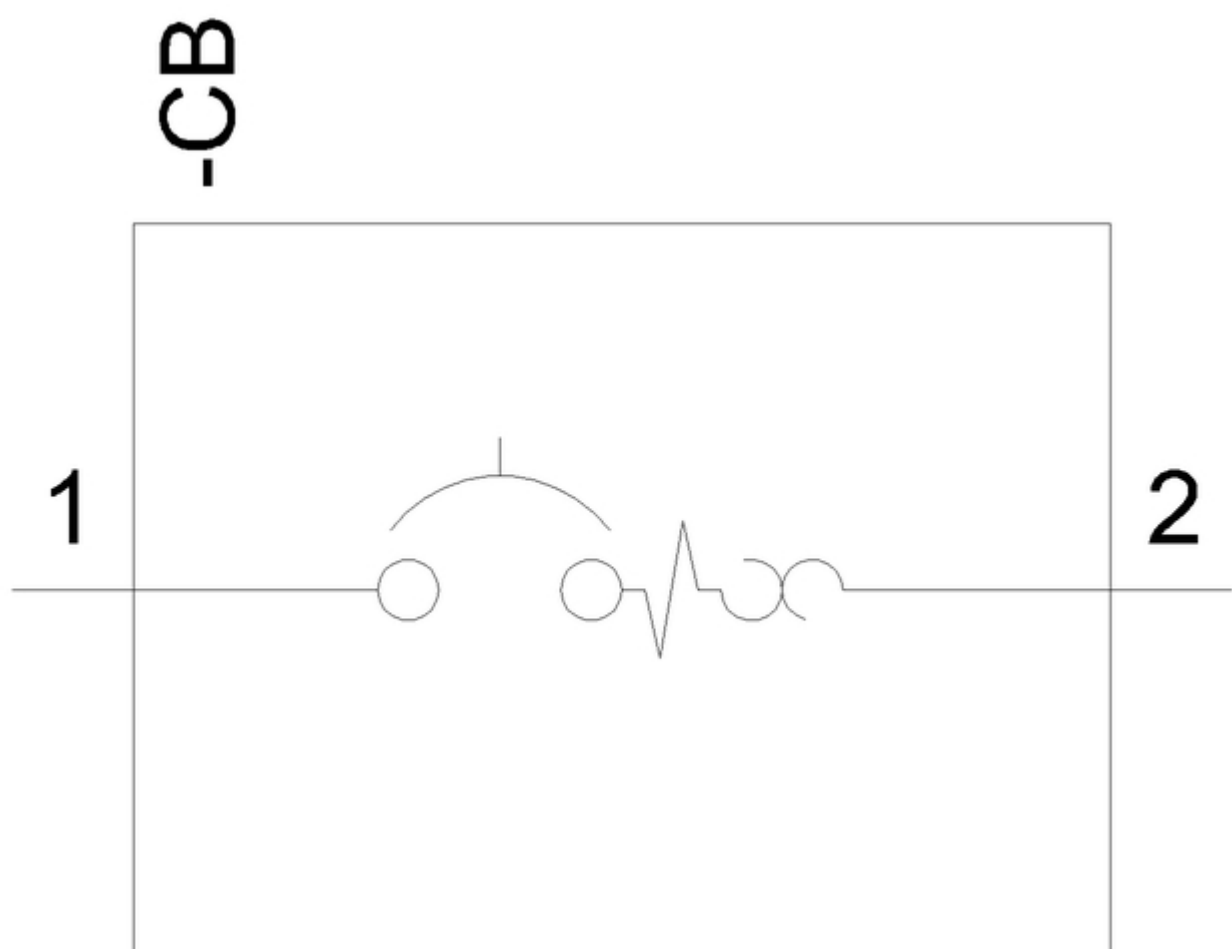
[Miscellaneous](#)

other

[Miscellaneous](#)

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





last modified:

8/13/2021 