



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 277 V 1-pole, line protection TM210, FTFM, In=30A overload protection Ir=30A fixed short-circuit protection li=10 x In clamp connection

| Model  |                             |
|--|-----------------------------|
| product brand name   | SENTRON                     |
| product designation  | Molded-case circuit breaker |
| product designation / according to UL file   | HEAB                        |
| Product version  | System protection           |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)                      | Yes                         |
| design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)                                | No                          |
| design of the overcurrent release  | TM210                       |
| protection function of the overcurrent release   | LI                          |
| number of poles  | 1                           |
| General technical data   |                             |
| operating voltage / at AC / rated value  | 415 V                       |
| power loss [W] / maximum   | 3 W                         |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                             | 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                          |
| Net Weight   | 0.28 kg                     |
| Current  |                             |
| marking / according to UL 489 / 100%-rated breaker   | No                          |
| operational current  |                             |
| • at 40 °C   | 30 A                        |
| • at 45 °C   | 29 A                        |
| • at 50 °C   | 29 A                        |
| • at 55 °C   | 28 A                        |
| • at 60 °C   | 27 A                        |
| • at 65 °C   | 27 A                        |
| • at 70 °C   | 26 A                        |
| Switching capacity according to IEC 60947  |                             |

|   |  |
|---|--|
| switching capacity class of the circuit breaker | H  |
| 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  |                          |
| <ul style="list-style-type: none"> <li>at 120 V</li> <li>at 277 V</li> <li>at 347 V</li> </ul> | 150 kA<br>65 kA<br>25 kA |

### Adjustable parameters

|  |    |
|--|----|
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
|--|----|

### Mechanical Design

|             |          |
|-------------|----------|
| height [in] | 5.09 in  |
| Height      | 129.4 mm |
| width [in]  | 1 in     |
| Width       | 25.4 mm  |
| depth [in]  | 2.96 in  |
| depth       | 75.1 mm  |

### Connections

|   |                      |
|---|----------------------|
| 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

|   |                |
|---|----------------|
| product component   |                |
| <ul style="list-style-type: none"> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul> | No<br>No<br>No |
| 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  |                                    |
| <ul style="list-style-type: none"> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul> | -25 °C<br>70 °C<br>-40 °C<br>80 °C |

### Certificates

|                          |     |       |
|--------------------------|-----|-------|
| General Product Approval | EMC | other |
|--------------------------|-----|-------|



[Miscellaneous](#)



[Miscellaneous](#)

### other

[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?mfb=3VA4130-6ED14-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4130-6ED14-0AA0>

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

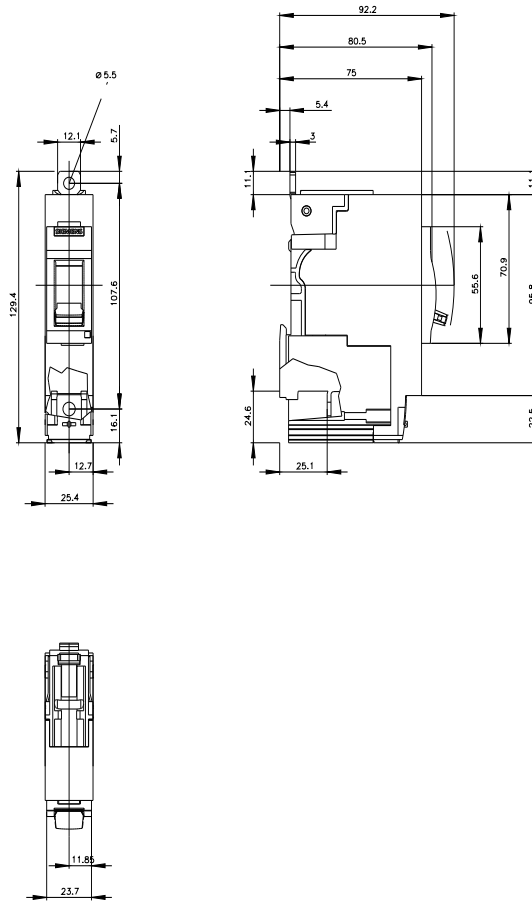
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA4130-6ED14-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA4130-6ED14-0AA0)

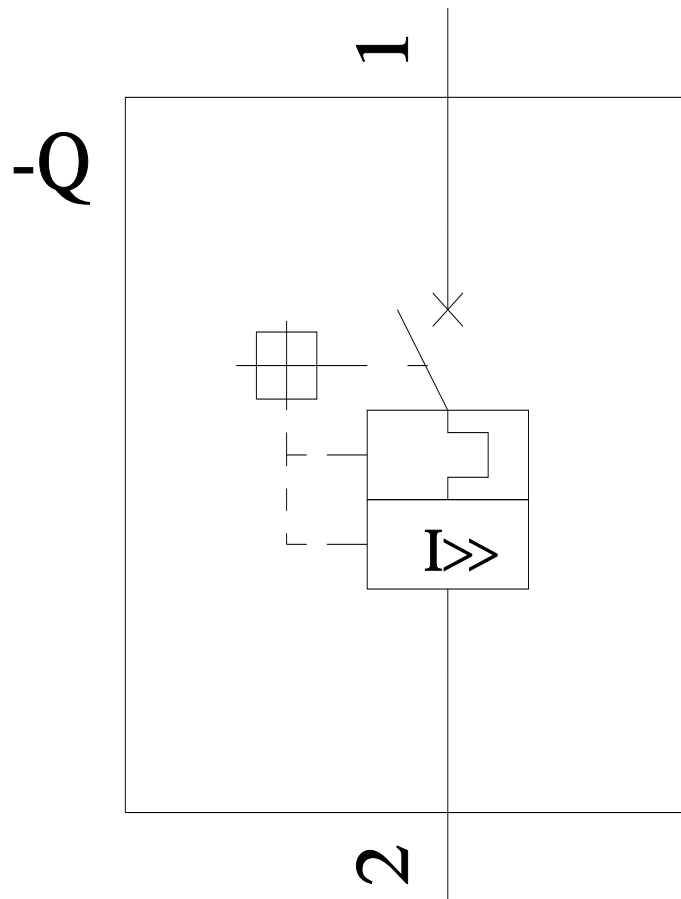
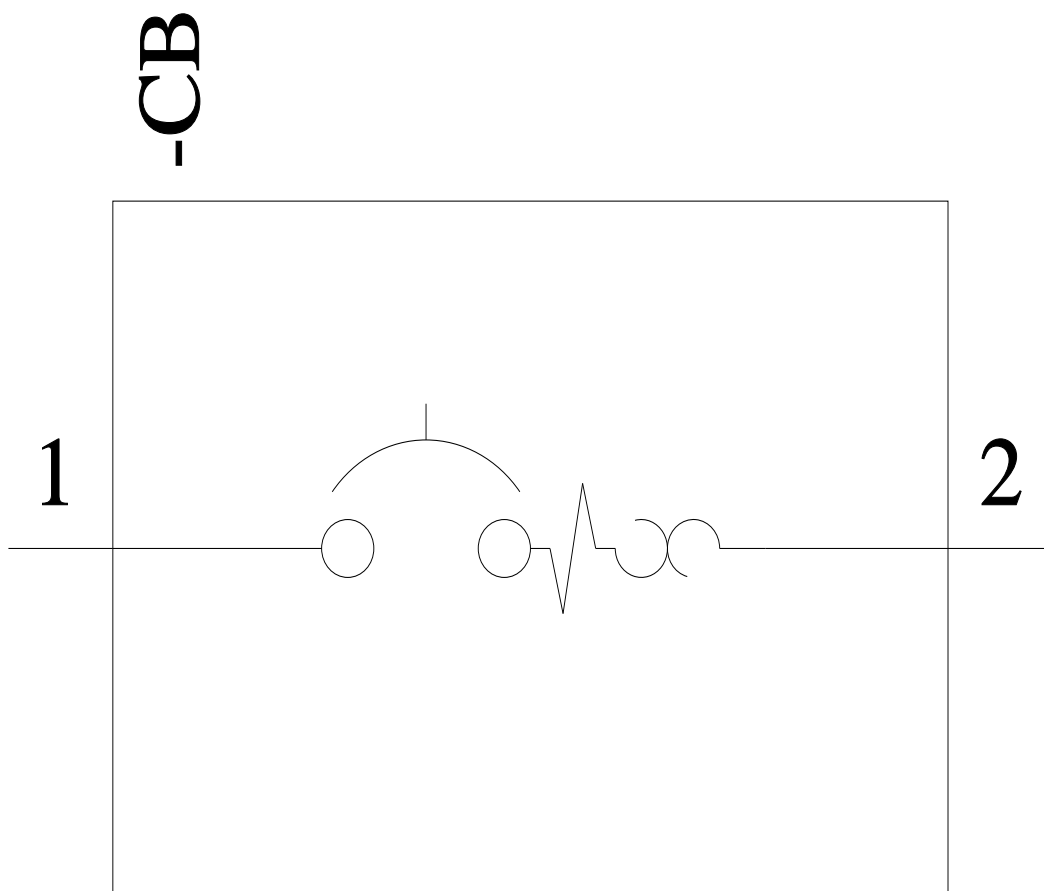
CAX-Online-Generator

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

Tender specifications

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





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