



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection li=10 x In clamp connection

| Model                                                                                                                 |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                    | SETRON                      |
| product designation                                                                                                   | Molded-case circuit breaker |
| product designation / according to UL file                                                                            | HEAB                        |
| 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 overcurrent release                                                                                     | TM210                       |
| protection function of the overcurrent release                                                                        | LI                          |
| number of poles                                                                                                       | 3                           |
| General technical data                                                                                                |                             |
| power loss [W] / maximum                                                                                              | 10.6 W                      |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 3.53 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                                                                                          | 40 A                        |
| operational current                                                                                                   |                             |
| • at 40 °C                                                                                                            | 40 A                        |
| • at 45 °C                                                                                                            | 39 A                        |
| • at 50 °C                                                                                                            | 39 A                        |
| • at 55 °C                                                                                                            | 38 A                        |
| • at 60 °C                                                                                                            | 37 A                        |
| • at 65 °C                                                                                                            | 36 A                        |
| • at 70 °C                                                                                                            | 36 A                        |
| Switching capacity according to IEC 60947                                                                             |                             |

|                                                                                       |                                        |     |       |        |
|---------------------------------------------------------------------------------------|----------------------------------------|-----|-------|--------|
| switching capacity class of the circuit breaker                                       | H                                      |     |       |        |
| Switching capacity according to UL 489                                                |                                        |     |       |        |
| breaking capacity current                                                             |                                        |     |       |        |
| • at 240 V                                                                            |                                        |     |       | 100 kA |
| • at 480 Y/277 V                                                                      |                                        |     |       | 65 kA  |
| • at 480 V                                                                            |                                        |     |       | 65 kA  |
| • at 600 Y/347 V                                                                      |                                        |     |       | 25 kA  |
| Adjustable parameters                                                                 |                                        |     |       |        |
| Adjustable response value current / li min.                                           | 400 A                                  |     |       |        |
| Adjustable response value current / li max.                                           | 400 A                                  |     |       |        |
| Ground fault protection / tripping switchable / I2t=ON/OFF                            | No                                     |     |       |        |
| Mechanical Design                                                                     |                                        |     |       |        |
| height [in]                                                                           | 5.1 in                                 |     |       |        |
| Height                                                                                | 129.4 mm                               |     |       |        |
| width [in]                                                                            | 3 in                                   |     |       |        |
| Width                                                                                 | 76.2 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](#)

#### 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=3VA4140-6ED34-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4140-6ED34-0AA0>

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

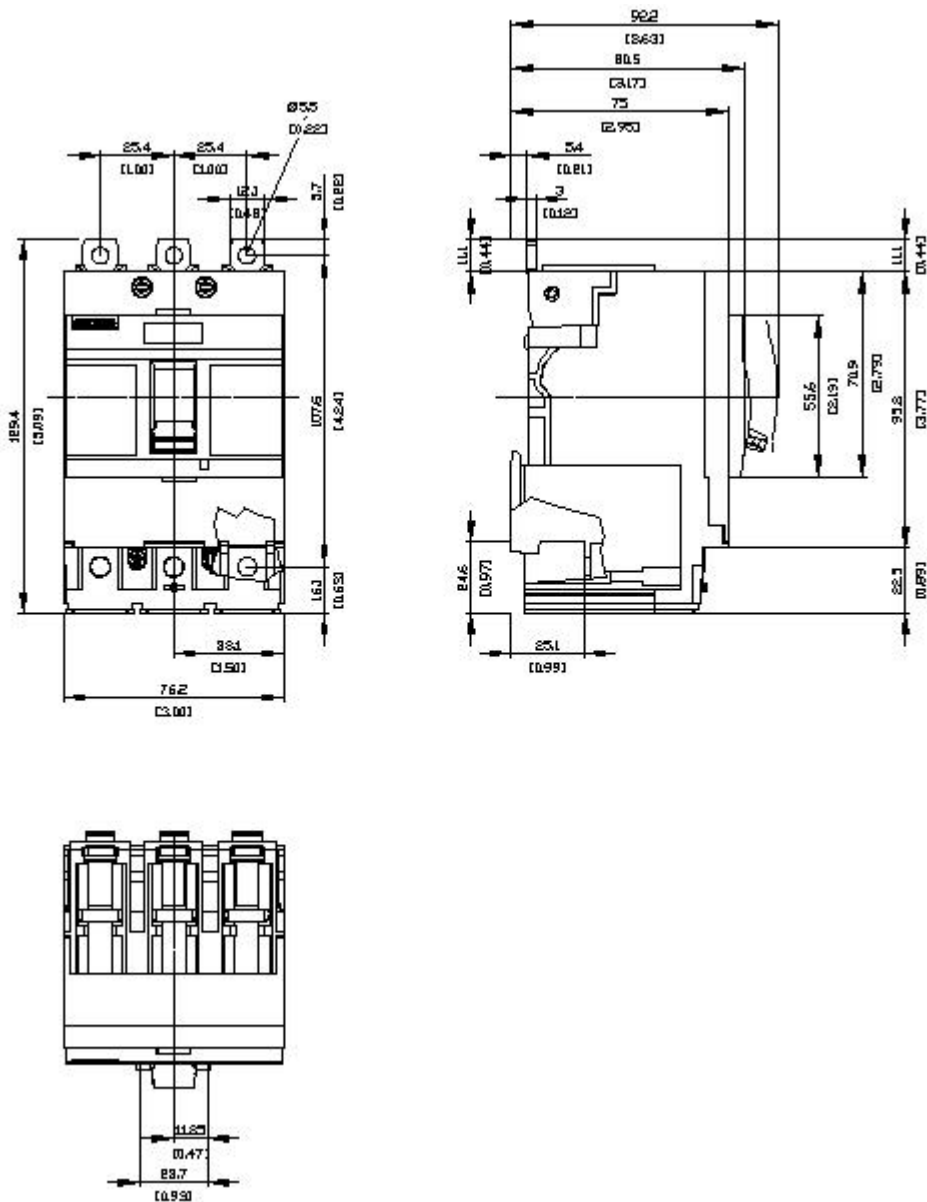
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA4140-6ED34-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4140-6ED34-0AA0)

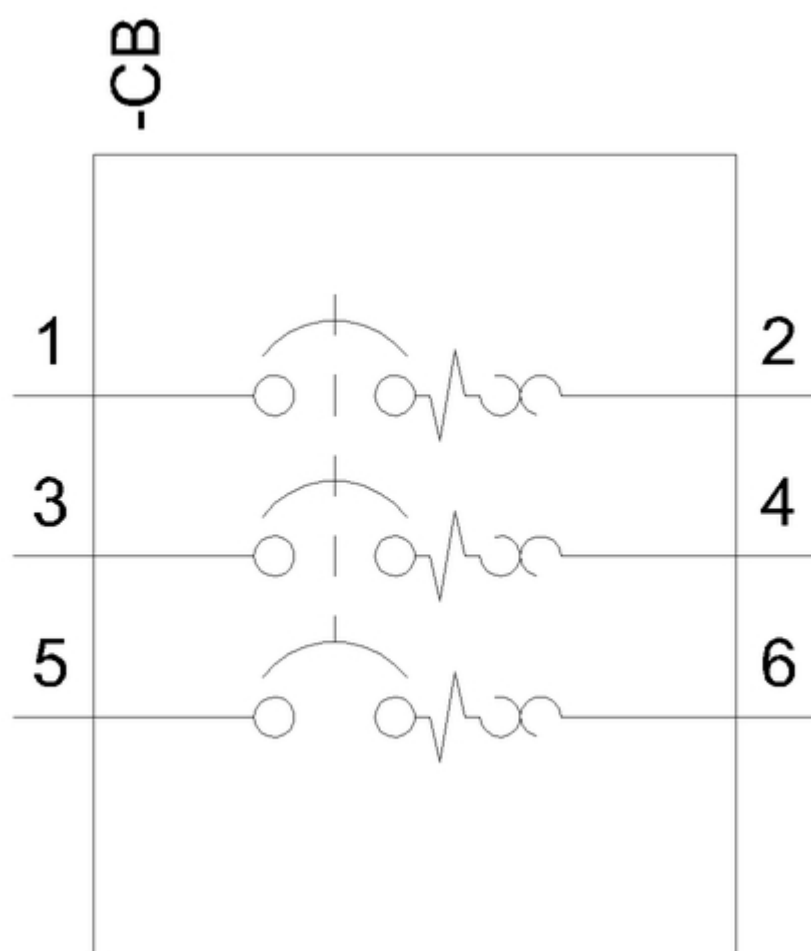
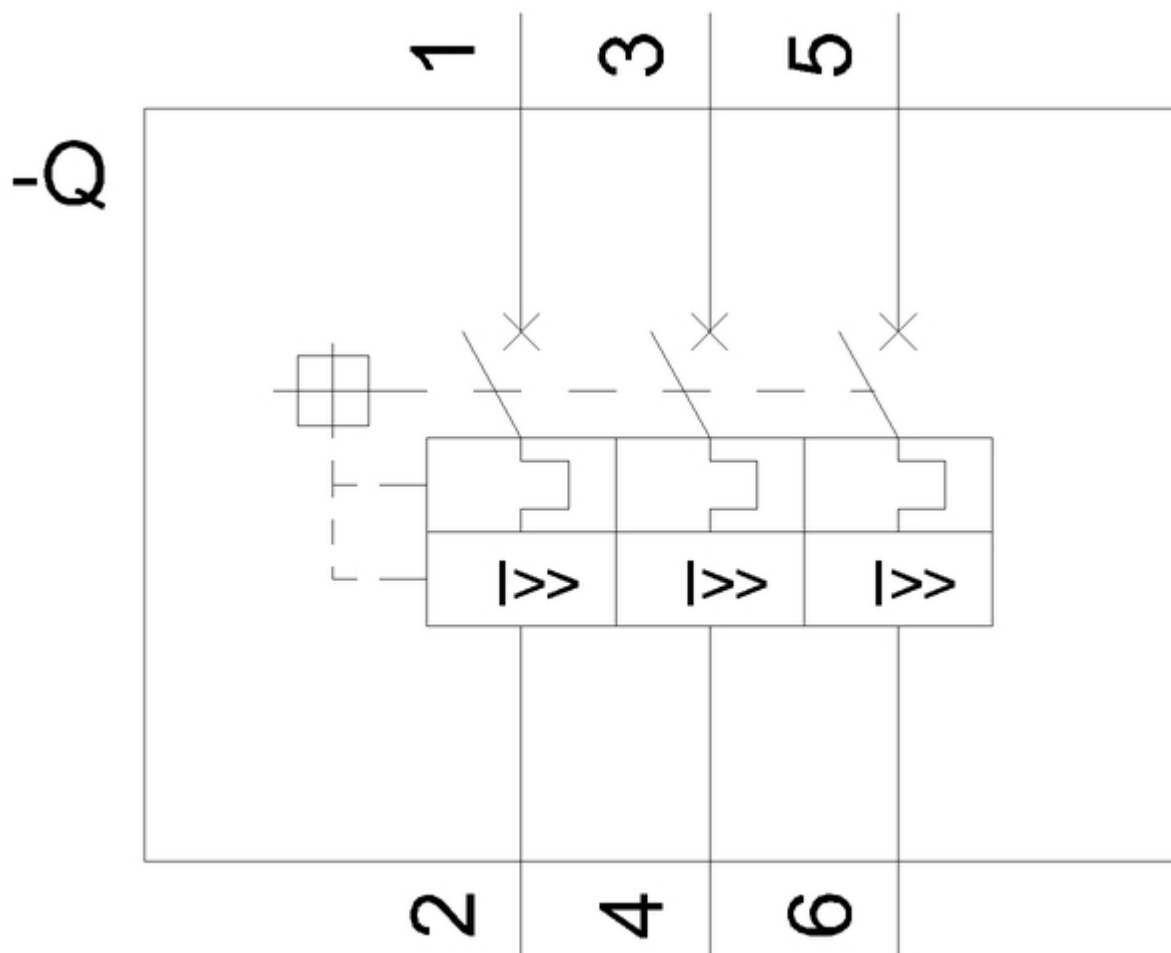
CAX-Online-Generator

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

Tender specifications

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





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