



circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 2-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A fixed short-circuit protection li=16 x In clamp connection universal release (UNI) 24V DC

| Model                                                                                          |                             |
|------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                             | SETRON                      |
| product designation                                                                            | Molded case circuit breaker |
| Product version                                                                                | Line protection             |
| design of the overcurrent release                                                              | TM210                       |
| protection function of the overcurrent release                                                 | LI                          |
| number of poles                                                                                | 2                           |
| design of the auxiliary release                                                                | Universal release (UNI)     |
| Auxiliary contact version                                                                      | Without                     |
| General technical data                                                                         |                             |
| rated insulation voltage Ui                                                                    | 500 V                       |
| Max. rated operational voltage Ue with DC                                                      | 250 V                       |
| power loss [W] / maximum                                                                       | 9.66 W                      |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 4.83 W                      |
| mechanical service life (switching cycles) / typical                                           | 20 000                      |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 9 000                       |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 6 300                       |
| Neutral conductors / upgradeable/retrofitable                                                  | No                          |
| ground-fault monitoring version                                                                | Without                     |
| product function                                                                               |                             |
| • communication function                                                                       | No                          |
| • other measurement function                                                                   | No                          |
| Net Weight                                                                                     | 0,78 kg                     |
| Current                                                                                        |                             |
| Max. rated operational current of the frame size                                               | 160 A                       |
| Courant permanent assigné lu                                                                   | 160 A                       |
| operational current                                                                            |                             |
| • at 40 °C                                                                                     | 20 A                        |
| • at 45 °C                                                                                     | 20 A                        |
| • at 50 °C                                                                                     | 20 A                        |
| • at 55 °C                                                                                     | 20 A                        |
| • at 60 °C                                                                                     | 19 A                        |
| • at 65 °C                                                                                     | 19 A                        |
| • at 70 °C                                                                                     | 19 A                        |
| Switching capacity according to IEC 60947                                                      |                             |
| switching capacity class of the circuit breaker                                                | N                           |
| breaking capacity maximum short-circuit current (Icu)                                          |                             |

|                                                                                                                                                                                                             |                                                                                                                                                                |     |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|
| <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                                                                               | 36 kA                                                                                                                                                          |     |                           |
|                                                                                                                                                                                                             | 25 kA                                                                                                                                                          |     |                           |
| breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                       | 36 kA                                                                                                                                                          |     |                           |
|                                                                                                                                                                                                             | 25 kA                                                                                                                                                          |     |                           |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                                   | 75.6 kA                                                                                                                                                        |     |                           |
|                                                                                                                                                                                                             | 52.5 kA                                                                                                                                                        |     |                           |
| 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 / li min.                                                                                                                                                                 | 1 600 A                                                                                                                                                        |     |                           |
| Adjustable response value current / li max.                                                                                                                                                                 | 1 600 A                                                                                                                                                        |     |                           |
| Ground fault protection / tripping switchable / I2t=ON/OFF                                                                                                                                                  | No                                                                                                                                                             |     |                           |
| Mechanical Design                                                                                                                                                                                           |                                                                                                                                                                |     |                           |
| height [in]                                                                                                                                                                                                 | 5.12 in                                                                                                                                                        |     |                           |
| Height                                                                                                                                                                                                      | 130 mm                                                                                                                                                         |     |                           |
| width [in]                                                                                                                                                                                                  | 2 in                                                                                                                                                           |     |                           |
| Width                                                                                                                                                                                                       | 50.8 mm                                                                                                                                                        |     |                           |
| depth [in]                                                                                                                                                                                                  | 2.76 in                                                                                                                                                        |     |                           |
| depth                                                                                                                                                                                                       | 70 mm                                                                                                                                                          |     |                           |
| Connections                                                                                                                                                                                                 |                                                                                                                                                                |     |                           |
| arrangement of electrical connectors / for main current circuit                                                                                                                                             | Front terminal                                                                                                                                                 |     |                           |
| type of electrical connection / for main current circuit                                                                                                                                                    | box terminal on both sides                                                                                                                                     |     |                           |
| Type of connectable conductor cross-section, round conductor terminal, stranded                                                                                                                             | 1 x (1.5 - 70 mm²)                                                                                                                                             |     |                           |
| 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>• undervoltage release with leading contact</li><li>• trip indicator</li></ul>             | Yes                                                                                                                                                            |     |                           |
|                                                                                                                                                                                                             | Yes                                                                                                                                                            |     |                           |
|                                                                                                                                                                                                             | No                                                                                                                                                             |     |                           |
|                                                                                                                                                                                                             | No                                                                                                                                                             |     |                           |
| number of CO contacts / for auxiliary contacts                                                                                                                                                              | 0                                                                                                                                                              |     |                           |
| Accessories                                                                                                                                                                                                 |                                                                                                                                                                |     |                           |
| product extension / optional / motor drive                                                                                                                                                                  | No                                                                                                                                                             |     |                           |
| manufacturer's article number <ul style="list-style-type: none"><li>• of the supplied basic switch</li><li>• of the integrated auxiliary trip unit</li></ul>                                                | <a href="#">3VA11203ED260AA0</a><br><a href="#">3VA9908-0BD12</a>                                                                                              |     |                           |
| 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                                                                                                                                                                                                |                                                                                                                                                                |     |                           |
| reference code / acc. to IEC 81346-2                                                                                                                                                                        | Q                                                                                                                                                              |     |                           |
| General Product Approval                                                                                                                                                                                    |                                                                                                                                                                | EMC | Declaration of Conformity |



[Miscellaneous](#)



| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|

[UK Declaration of Conformity](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|

[CCS / China Classification Society](#)

[Miscellaneous](#)

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## 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=3VA1120-3ED26-0LA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1120-3ED26-0LA0>

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

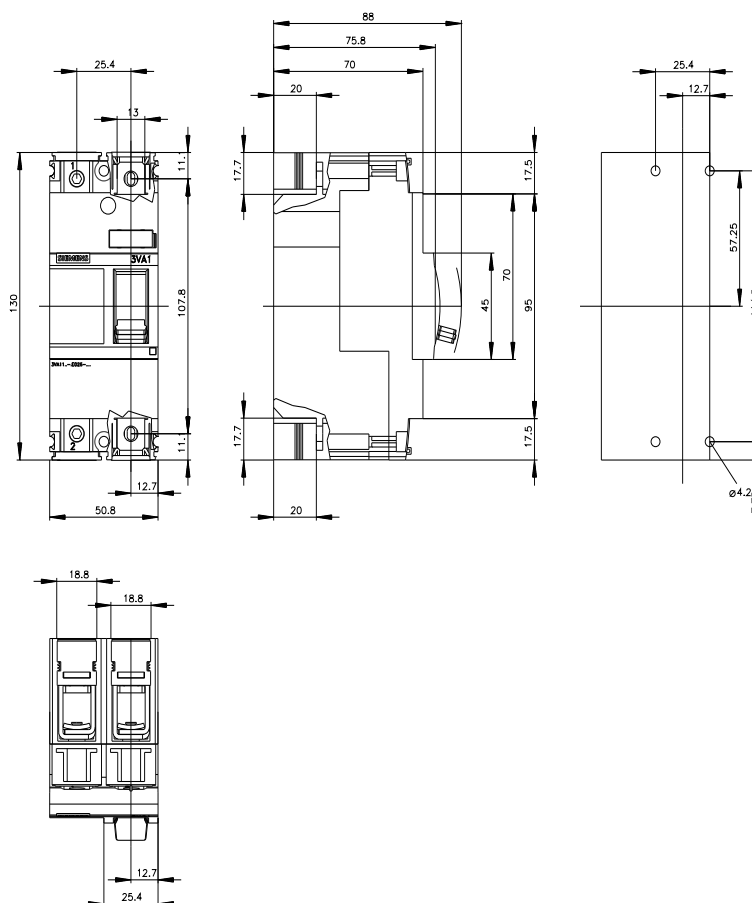
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1120-3ED26-0LA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1120-3ED26-0LA0)

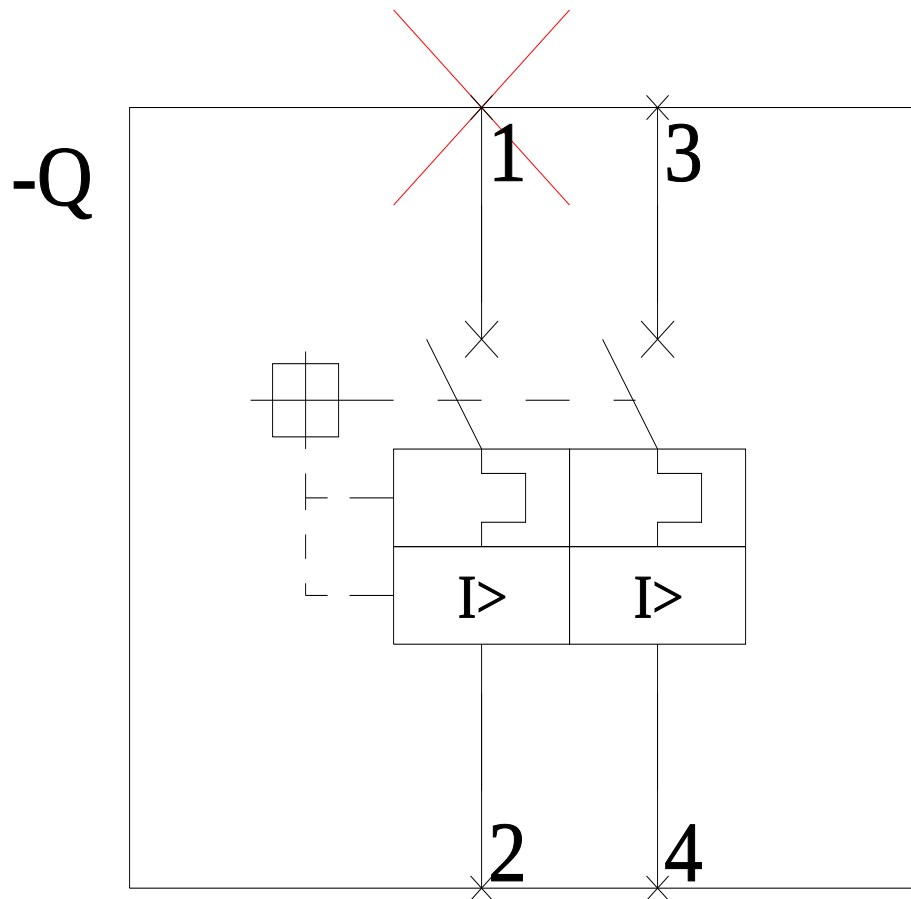
CAX-Online-Generator

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

Tender specifications

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





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