

circuit breaker 3VA1 IEC frame 160 breaking capacity class H  
Icu=70kA @ 415V 3-pole, starter protection TM110M, FM, In=12.5A  
without overload protection short-circuit protection li=15 x In nut  
keeper kit



| Model                                                                                          |                             |
|------------------------------------------------------------------------------------------------|-----------------------------|
| Product brand name                                                                             | SETRON                      |
| Product designation                                                                            | Molded case circuit breaker |
| Product version                                                                                | Starter protection          |
| Design of the overcurrent release                                                              | TM110M                      |
| Protective function of the overcurrent release                                                 | I                           |
| Number of poles                                                                                | 3                           |
| General technical data                                                                         |                             |
| Rated insulation voltage Ui                                                                    | 800 V                       |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V                       |
| Power loss [W] / maximum                                                                       | 5.7 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 1.9 W                       |
| Latching - endurance                                                                           | 15 000                      |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 8 000                       |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 8 000                       |
| Neutral conductors / upgradeable/retrofitable                                                  | No                          |

|                                 |         |
|---------------------------------|---------|
| Ground fault monitoring version | Without |
| Product function                |         |
| • communication function        | No      |
| • Phase failure detection       | No      |
| • other measurement function    | No      |
| Net weight                      | 0.9 kg  |

#### Current

|                                                  |          |
|--------------------------------------------------|----------|
| Max. rated operational current of the frame size | 160 A    |
| Rated continuous current I <sub>u</sub>          | 12.5 A   |
| Operating current                                |          |
| • at 40 °C                                       | 12.5 A   |
| • at 45 °C                                       | 12.5 A   |
| • at 50 °C                                       | 12.5 A   |
| • at 55 °C                                       | 12.125 A |
| • at 60 °C                                       | 11.875 A |
| • at 65 °C                                       | 11.5 A   |
| • at 70 °C                                       | 11 A     |

#### Switching capacity according to IEC 60947

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| Switching capacity class of the circuit breaker                        | H      |
| Maximum short-circuit current breaking capacity (I <sub>cu</sub> )     |        |
| • at 240 V                                                             | 100 kA |
| • at 415 V                                                             | 70 kA  |
| • at 440 V                                                             | 55 kA  |
| • at 500 V                                                             | 10 kA  |
| • at 690 V                                                             | 5 kA   |
| Operational short-circuit current breaking capacity (I <sub>cs</sub> ) |        |
| • at 240 V                                                             | 100 kA |
| • at 415 V                                                             | 70 kA  |
| • at 440 V                                                             | 40 kA  |
| • at 500 V                                                             | 5 kA   |
| • at 690 V                                                             | 5 kA   |
| Short-circuit current making capacity (I <sub>cm</sub> )               |        |
| • at 240 V                                                             | 220 kA |
| • at 415 V                                                             | 154 kA |
| • at 440 V                                                             | 121 kA |
| • at 500 V                                                             | 17 kA  |
| • at 690 V                                                             | 7.5 kA |

#### Adjustable parameters

|                                                         |       |
|---------------------------------------------------------|-------|
| Adjustable response value current / I <sub>i</sub> min. | 200 A |
| Adjustable response value current / I <sub>i</sub> max. | 200 A |

|                                                                                         |                |
|-----------------------------------------------------------------------------------------|----------------|
| Ground fault protection / tripping switchable / I2t=ON/OFF                              | No             |
| <b>Mechanical Design</b>                                                                |                |
| Height [in]                                                                             | 5.1 in         |
| Height                                                                                  | 130 mm         |
| Width [in]                                                                              | 3 in           |
| Width                                                                                   | 76.2 mm        |
| Depth [in]                                                                              | 2.8 in         |
| Depth                                                                                   | 70 mm          |
| <b>Connections</b>                                                                      |                |
| Arrangement of electrical connectors / for main current circuit                         | Front terminal |
| Type of electrical connection / for main current circuit                                | lug terminal   |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 12 x 1         |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 17 x 6.5       |
| <b>Auxiliary circuit</b>                                                                |                |
| Number of CO contacts / for auxiliary contacts                                          | 0              |
| <b>Accessories</b>                                                                      |                |
| Product extension / optional / motor drive                                              | Yes            |
| <b>Environmental conditions</b>                                                         |                |
| 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          |
| <b>Certificates</b>                                                                     |                |
| Reference code / acc. to DIN EN 81346-2                                                 | Q              |

| General Product Approval                                                                 | EMC                                                                                      | Declaration of Conformity                                                                | Test Certificates                                                                               |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>EAC | <br>RCM | <br>EG-Konf. |

[Miscellaneous](#)

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| Test Certificates                                                                                                                    | Shipping Approval                        | other                         |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------|
| <a href="#">Special Test Certificate</a><br><br>LRS | <a href="#">Manufacturer Declaration</a> | <a href="#">Miscellaneous</a> |

#### 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=3VA1192-6MG32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1192-6MG32-0AA0>

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

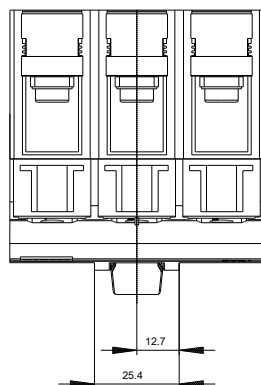
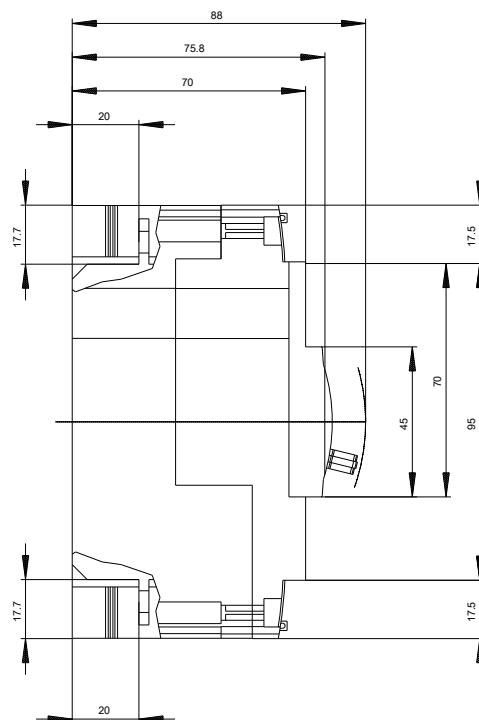
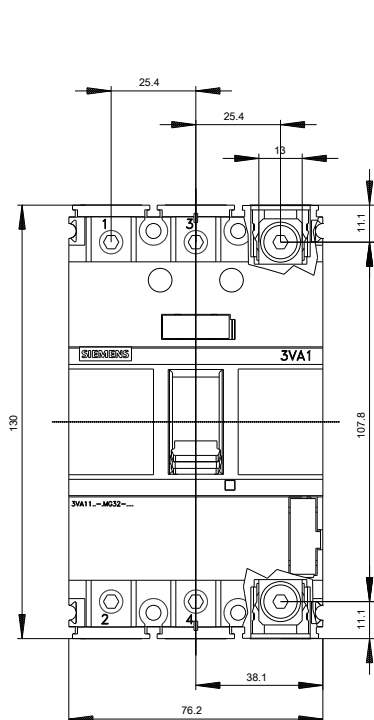
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1192-6MG32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1192-6MG32-0AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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





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