

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, line protection ETU330, LIG, In=100 A overload protection Ir=40 A ... 100 A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2... 1 x In, tg=0.1/0.3s nut keeper kit



| Model                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                                    | SETRON                                  |
| product designation                                                                                   | Molded case circuit breaker             |
| design of the product                                                                                 | Line protection                         |
| design of the overcurrent release                                                                     | ETU330                                  |
| protection function of the overcurrent release                                                        | LIG                                     |
| number of poles                                                                                       | 3                                       |
| General technical data                                                                                |                                         |
| insulation voltage / rated value                                                                      | 800 V                                   |
| operating voltage / at AC / rated value                                                               | 690 V                                   |
| power loss [W] / maximum                                                                              | 7.7 W                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 2.57 W                                  |
| mechanical service life (operating cycles) / typical                                                  | 25 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 14 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 9 800                                   |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                                      |
| ground-fault monitoring version                                                                       | Summation current formation L-conductor |
| product function                                                                                      |                                         |
| • communication function                                                                              | No                                      |
| • other measurement function                                                                          | No                                      |
| Net Weight                                                                                            | 2.225 kg                                |
| Current                                                                                               |                                         |
| operational current                                                                                   |                                         |
| • at 40 °C                                                                                            | 100 A                                   |
| • at 45 °C                                                                                            | 100 A                                   |
| • at 50 °C                                                                                            | 100 A                                   |
| • at 55 °C                                                                                            | 100 A                                   |
| • at 60 °C                                                                                            | 100 A                                   |
| • at 65 °C                                                                                            | 100 A                                   |
| • at 70 °C                                                                                            | 100 A                                   |
| Switching capacity according to IEC 60947                                                             |                                         |
| switching capacity class of the circuit breaker                                                       | E                                       |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                         |
| • at 415 V                                                                                            | 200 kA                                  |

|                                                                                  |                  |
|----------------------------------------------------------------------------------|------------------|
| <ul style="list-style-type: none"> <li>• at 690 V</li> </ul>                     | 85 kA            |
| operating short-circuit current breaking capacity (Ics)                          |                  |
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul> | 200 kA<br>65 kA  |
| short-circuit current making capacity (Icm)                                      |                  |
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul> | 440 kA<br>187 kA |

#### Adjustable parameters

|                                                                                               |                  |
|-----------------------------------------------------------------------------------------------|------------------|
| product feature / for L-tripping / can be switched on/off                                     | No               |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic      |                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 40 A<br>100 A    |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic          |                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.5 s<br>17 s    |
| adjustable response value setting current (Ii) / for I-tripping                               |                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 150 A<br>1 200 A |
| adjustable current response value current / for G-tripping / with standard characteristic     |                  |
| <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul> | 20 A<br>100 A    |
| adjustable response value delay time (tg) / for G-tripping / with I0t characteristic          |                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.1 s<br>0.3 s   |
| adjustable setting current (InN) / for N-tripping                                             |                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0 A<br>0 A       |
| product function / grounding protection                                                       | Yes              |

#### Mechanical Design

|                                                                                                                               |                |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|
| 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 |
| height [in]                                                                                                                   | 7.13 in        |
| height                                                                                                                        | 181 mm         |
| width [in]                                                                                                                    | 4.13 in        |
| width                                                                                                                         | 105 mm         |
| depth [in]                                                                                                                    | 3.39 in        |
| depth                                                                                                                         | 86 mm          |

#### Connections

|                                                                                           |                              |
|-------------------------------------------------------------------------------------------|------------------------------|
| arrangement of electrical connectors / for main current circuit                           | Front terminal               |
| type of electrical connection / for main current circuit                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 13 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 mm                    |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)        | tin                          |
| 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 | Yes |
|--------------------------------------------|-----|

#### 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

#### Environmental footprint

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| global warming potential [CO2 eq] / total                | 61.814 kg       |
| global warming potential [CO2 eq] / during manufacturing | 14.6 kg         |
| global warming potential [CO2 eq] / during operation     | 48.9 kg         |
| global warming potential [CO2 eq] / after end of life    | -2.2 kg         |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

#### Approvals / Certificates

##### General Product Approval



[Confirmation](#)



EG-Konf.



VDE

[Miscellaneous](#)

##### General Product Approval

##### EMV

##### Test Certificates



RCM

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)

##### Maritime application

##### other

##### Dangerous goods



[CCS \(China Classification Society\)](#)

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

#### Environment



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[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2110-0HM32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-0HM32-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-0HM32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-0HM32-0AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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





