

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 400 breaking capacity class L Icu=150 kA @ 415 V 3-pole, line protection ETU850, LSI, In=400 A overload protection Ir=160 A...400 A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In neutral conductor protection optionally with external current transformer, up to 160% 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                                                                     | ETU850                      |
| protection function of the overcurrent release                                                        | LSI                         |
| 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                                                                              | 96 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 32 W                        |
| mechanical service life (operating cycles) / typical                                                  | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 6 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 4 200                       |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | Yes                         |
| ground-fault monitoring version                                                                       | Without                     |
| product function                                                                                      |                             |
| • communication function                                                                              | Yes                         |
| • other measurement function                                                                          | Yes                         |
| Net Weight                                                                                            | 4 300 g                     |
| Current                                                                                               |                             |
| operational current                                                                                   |                             |
| • at 40 °C                                                                                            | 400 A                       |
| • at 45 °C                                                                                            | 400 A                       |
| • at 50 °C                                                                                            | 400 A                       |
| • at 55 °C                                                                                            | 375 A                       |
| • at 60 °C                                                                                            | 350 A                       |
| • at 65 °C                                                                                            | 325 A                       |
| • at 70 °C                                                                                            | 300 A                       |
| Switching capacity according to IEC 60947                                                             |                             |
| switching capacity class of the circuit breaker                                                       | L                           |
| maximum short-circuit current breaking capacity (Icu)                                                 |                             |
| • at 240 V                                                                                            | 200 kA                      |

|                                                                                                                                                                                                      |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                             | 150 kA<br>150 kA<br>100 kA<br>25 kA             |
| operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 200 kA<br>150 kA<br>150 kA<br>100 kA<br>18 kA   |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>             | 440 kA<br>330 kA<br>330 kA<br>220 kA<br>52.5 kA |
| <b>Adjustable parameters</b>                                                                                                                                                                         |                                                 |
| 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>                              | 160 A<br>400 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 (Isd) / of S-trip / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 240 A<br>4 000 A                                |
| adjustable response value setting current (Isd) / of S-trip / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 240 A<br>4 000 A                                |
| adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 0.05 s<br>0.5 s                                 |
| adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 0.05 s<br>0.5 s                                 |
| adjustable response value setting current (Ii) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                       | 600 A<br>4 000 A                                |
| adjustable setting current (InN) / for N-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                     | 80 A<br>640 A                                   |
| design of the N-conductor protection                                                                                                                                                                 | adjustable OFF; 20% to 160%                     |
| product function / grounding protection                                                                                                                                                              | No                                              |
| <b>Mechanical Design</b>                                                                                                                                                                             |                                                 |
| 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]                                                                                                                                                                                          | 9.76 in                                         |
| height                                                                                                                                                                                               | 248 mm                                          |
| width [in]                                                                                                                                                                                           | 5.43 in                                         |
| width                                                                                                                                                                                                | 138 mm                                          |
| depth [in]                                                                                                                                                                                           | 4.33 in                                         |
| depth                                                                                                                                                                                                | 110 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 | 20 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 mm                   |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)        | silver                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)     | silver                       |

| 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                | 495 kg          |
| global warming potential [CO2 eq] / during manufacturing | 28.7 kg         |
| global warming potential [CO2 eq] / during operation     | 470 kg          |
| global warming potential [CO2 eq] / after end of life    | -4.07 kg        |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

| Approvals / Certificates |  |
|--------------------------|--|
|--------------------------|--|

#### General Product Approval



[Confirmation](#)

[Miscellaneous](#)



| General Product Approval | EMV | Test Certificates | Maritime application | other |
|--------------------------|-----|-------------------|----------------------|-------|
|--------------------------|-----|-------------------|----------------------|-------|



[Special Test Certificate](#)

[Miscellaneous](#)

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



| other | Dangerous goods | Environment |
|-------|-----------------|-------------|
|-------|-----------------|-------------|

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)



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[Environmental Confirmations](#)

#### Environment

[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=3VA2340-8KP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-8KP32-0AA0>

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

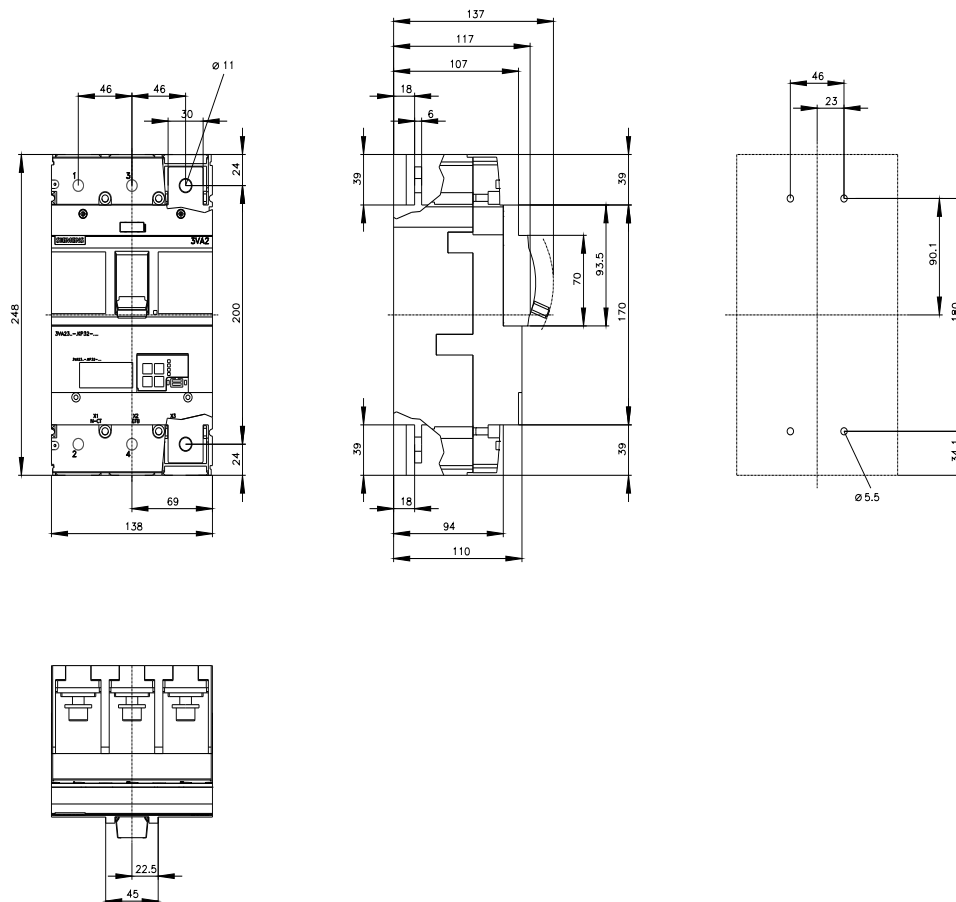
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2340-8KP32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-8KP32-0AA0)

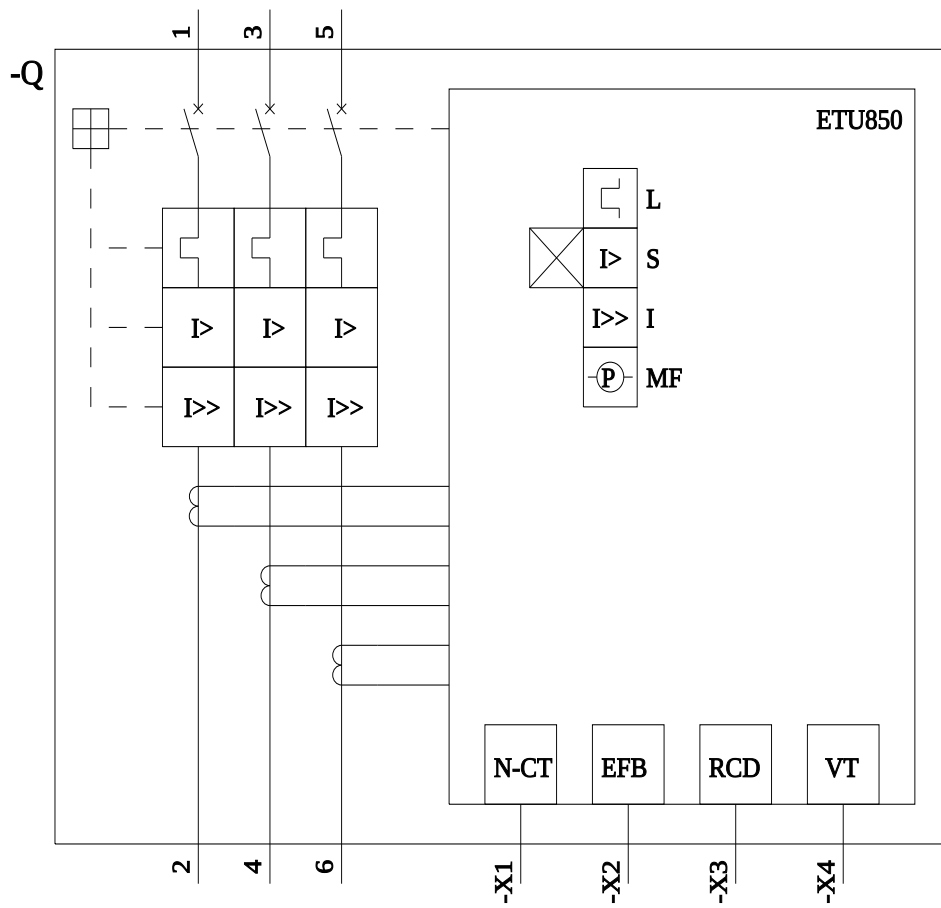
**CAX-Online-Generator**

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

**Tender specifications**

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





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