



circuit breaker 3VA2 IEC Frame 630 breaking capacity class M  $I_{cu}=55 \text{ kA @ } 415 \text{ V}$   
 3-pole, motor protection ETU350M, LSI,  $I_n=500 \text{ A}$  overload protection  $I_r=200 \text{ A}$ ...500 A short-circuit protection  $I_{sd}=3...15 \times I_r$ ,  $I_i=15 \times I_n$  nut keeper kit 2 auxiliary switches HQ

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Motor protection
design of the overcurrent release	ETU350M
protection function of the overcurrent release	LSI
number of poles	3
design of the auxiliary release	Without auxiliary release
design of the auxiliary switch	2 auxiliary switches HQ
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
operating power / at AC-3 / at 400 V	200 000 W
operating power / at AC-3 / at 230 V	110 000 W
power loss [W] / maximum	99 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	3 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	2 500
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• phase failure detection	Yes
• other measurement function	No
Net Weight	4.4 kg
Current	
short-time withstand current ( $I_{cw}$ ) / limited to 1 s	6 kA
operational current	
• at 40 °C	500 A
• at 45 °C	500 A
• at 50 °C	500 A
• at 55 °C	495 A
• at 60 °C	490 A
• at 65 °C	485 A
• at 70 °C	480 A

**Switching capacity according to IEC 60947**

switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (I <sub>cu</sub> ) <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>	85 kA 55 kA 55 kA 36 kA 6 kA
operating short-circuit current breaking capacity (I <sub>cs</sub> ) <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>	85 kA 55 kA 55 kA 36 kA 6 kA
short-circuit current making capacity (I <sub>cm</sub> ) <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>	187 kA 121 kA 121 kA 75.5 kA 9 kA

**Adjustable parameters**

product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	200 A 500 A
adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	4 s 13 s
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	600 A 7 500 A
adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	0.03 s 0.03 s
adjustable response value setting current (I <sub>i</sub> ) / for I-tripping <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	7 500 A 7 500 A
adjustable setting current (I <sub>nN</sub> ) / for N-tripping <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	0 A 0 A
product function / grounding protection	No
adjustable trip class (T <sub>c</sub> CLASS)	10A, 10E, 20E
tripping time (T <sub>p</sub> ) / with adjustable trip class (T <sub>c</sub> CLASS) <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	4 s 13 s

**Mechanical Design**

product component <ul style="list-style-type: none"><li>• undervoltage release</li><li>• voltage trigger</li><li>• trip indicator</li></ul>	No No 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	2

Accessories	
product extension / optional / motor drive	Yes
manufacturer's article number	
<ul style="list-style-type: none"> <li>of the supplied basic switch</li> <li>of the integrated auxiliary switch/alarm switch</li> </ul>	<a href="#">3VA2450-5MN32-0AA0</a> <a href="#">3VA9988-0AA12</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 70 °C -40 °C 80 °C
reference code / according to IEC 81346-2	Q

### Approvals / Certificates

#### General Product Approval



[Miscellaneous](#)



[Confirmation](#)

#### General Product Approval

#### EMV

#### Test Certificates



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Maritime application

#### other



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

[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)

#### other

#### Dangerous goods

#### Environment



[Transport Information](#)

[Environmental Conformations](#)

[Environmental Conformations](#)

### 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=3VA2450-5MN32-0AC0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2450-5MN32-0AC0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2450-5MN32-0AC0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2450-5MN32-0AC0)

CAX-Online-Generator

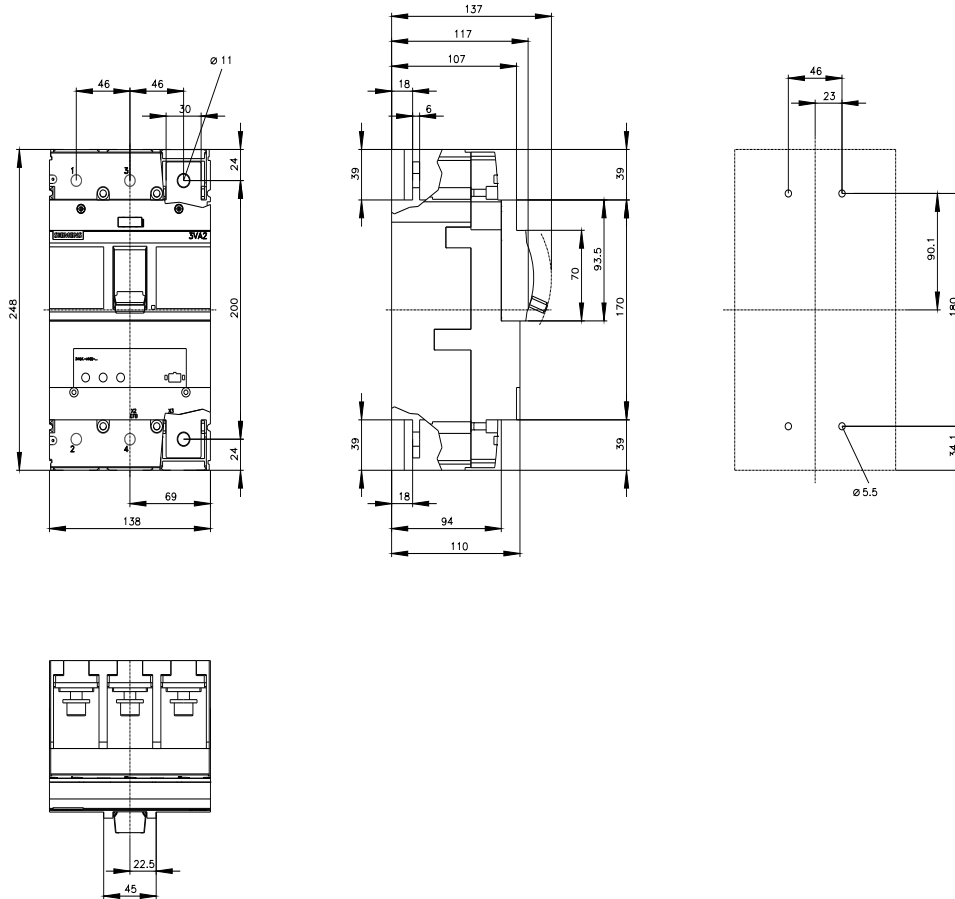
<https://www.siemens.com/cax>

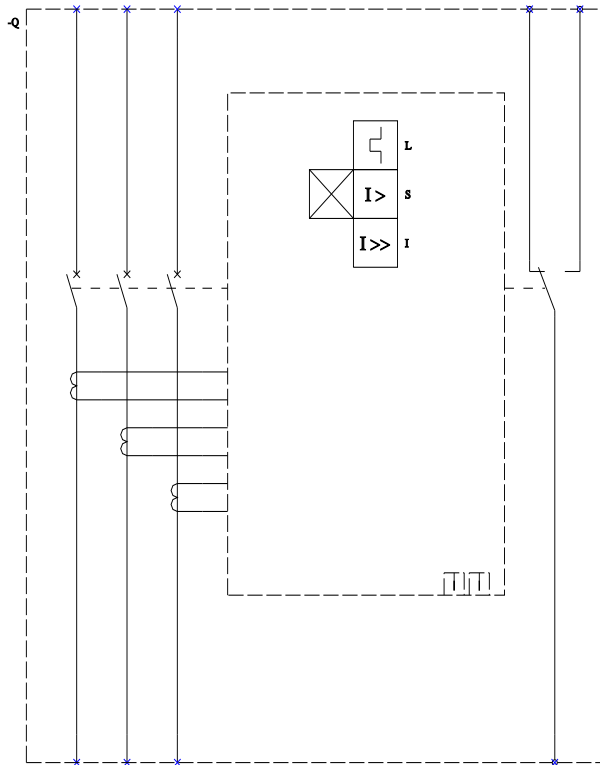
Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögert);  
 I (Instantaneous / Kurzschlusschutz, unverzögert);

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