

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 630 breaking capacity class H Icu=85 kA @ 415 V  
4-pole, line protection ETU350, LSI, In=400 A overload protection Ir=160 A...400 A  
short-circuit protection I<sub>sd</sub>=1.5...10 x I<sub>r</sub>, I<sub>i</sub>=12 x I<sub>n</sub> neutral conductor protection  
adjustable (OFF, 50%, 100%) nut keeper kit



Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU350
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	63.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	21.17 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	6.115 kg
Current	
short-time withstand current (I <sub>cw</sub> ) / limited to 1 s	5 kA
operational current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	400 A
• at 60 °C	400 A
• at 65 °C	400 A
• at 70 °C	400 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	110 kA
• at 415 V	85 kA

<ul style="list-style-type: none"> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>	<p>85 kA</p> <p>55 kA</p> <p>6 kA</p>
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>	<p>110 kA</p> <p>85 kA</p> <p>85 kA</p> <p>55 kA</p> <p>6 kA</p>
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>	<p>242 kA</p> <p>187 kA</p> <p>187 kA</p> <p>121 kA</p> <p>9 kA</p>

### 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 <sup>2</sup> t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>160 A</p> <p>400 A</p>
adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sup>2</sup> t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>0.5 s</p> <p>17 s</p>
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sup>2</sup> t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>600 A</p> <p>4 000 A</p>
adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sup>2</sup> t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>0.02 s</p> <p>0.4 s</p>
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>	<p>4 800 A</p> <p>4 800 A</p>
adjustable setting current (I <sub>nN</sub> ) / for N-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>200 A</p> <p>400 A</p>
design of the N-conductor protection	adjustable OFF; 50%; 100%
product function / grounding protection	No

### Mechanical Design

product component <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• trip indicator</li> </ul>	<p>No</p> <p>No</p> <p>No</p>
height [in]	9.76 in
height	248 mm
width [in]	7.24 in
width	184 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**

<b>General Product Approval</b>	EMV
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CCC

[Confirmation](#)



VDE

[Miscellaneous](#)



EAC



RCM

<b>Test Certificates</b>	<b>Marine / Shipping</b>
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[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



DNV

<b>Marine / Shipping</b>	<b>other</b>
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LRS



RMRS

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

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

<b>Dangerous goods</b>	<b>Environment</b>
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[Transport Information](#)



EPD



Siemens EcoTech

[Environmental Confirmations](#)

[Environmental Confirmations](#)

**Further information**

**Information on the packaging**  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/lowvoltage/catalogs>

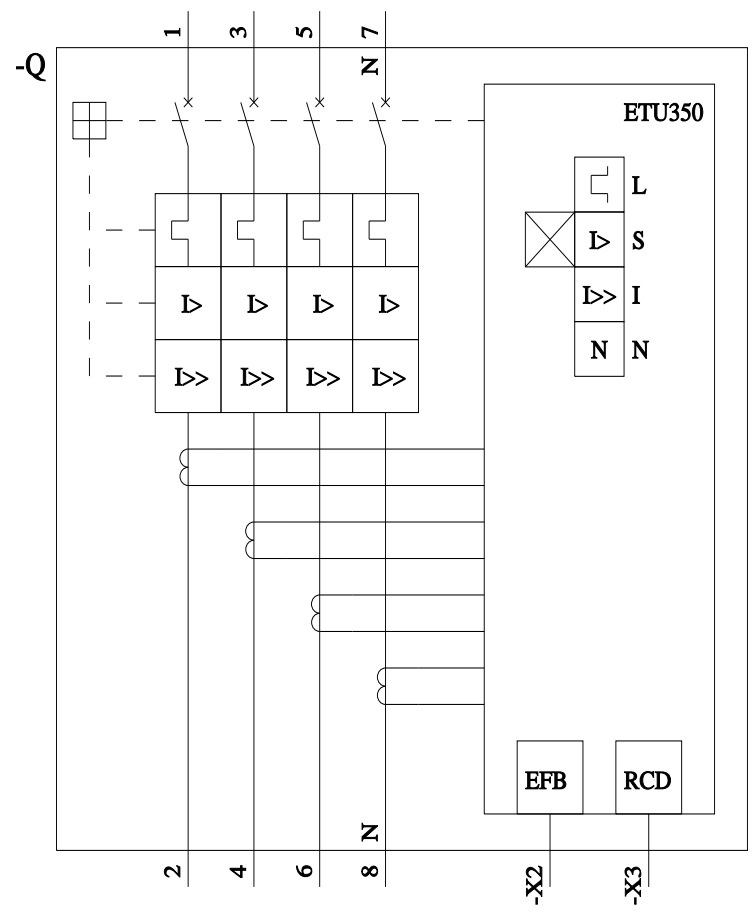
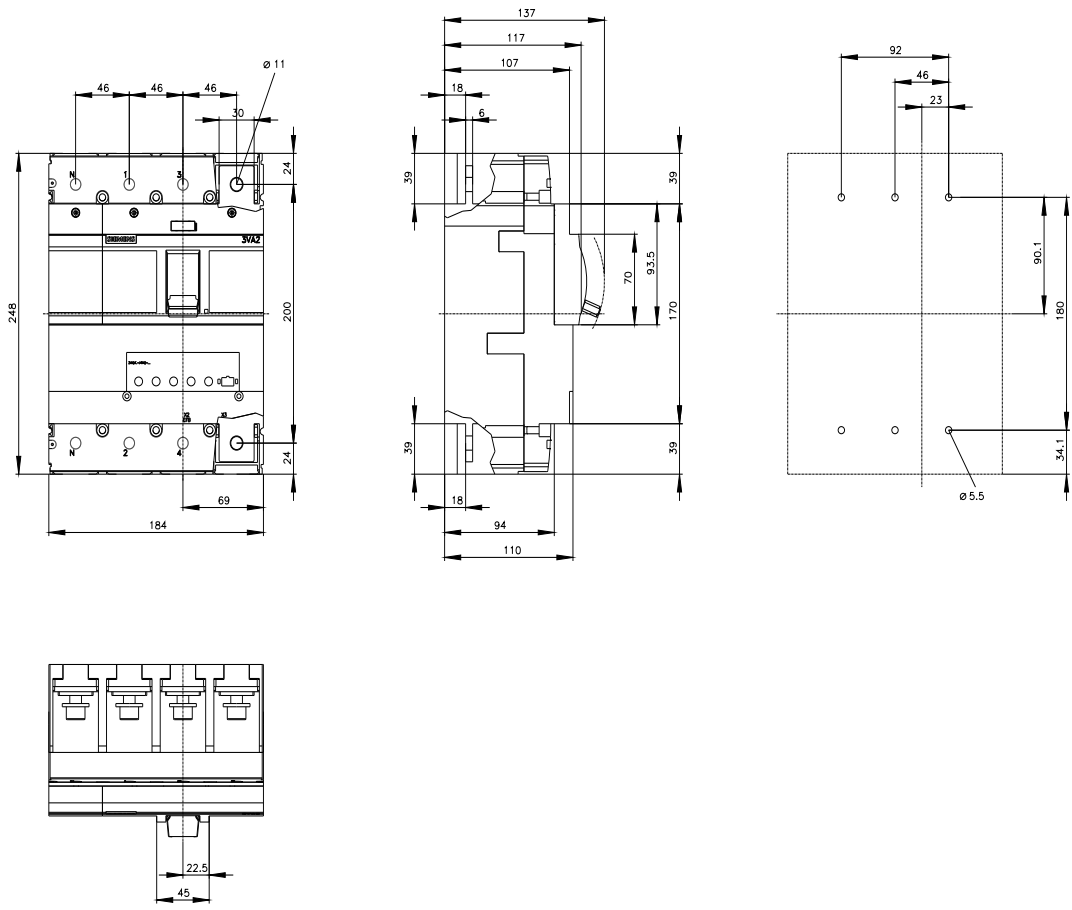
**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2440-6HN42-0AA0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2440-6HN42-0AA0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-6HN42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-6HN42-0AA0)

**CAx-Online-Generator**  
<http://www.siemens.com/cax>

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



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10/24/2024



