



circuit breaker 3VA2 IEC frame 630 breaking capacity class E  $I_{cu}=200 \text{ kA} @ 415 \text{ V}$   
3-pole motor protection ETU350M, LSI,  $I_n=500\text{A}$  overload protection  $I_r=160\text{A}$  ...  
500A short circuit protection  $I_{sd}=3...12 \times I_r$ ,  $I_i=12 \times I_n$  busbar connection

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
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/retrofitable / 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	5.05 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	E
maximum short-circuit current breaking capacity ( $I_{cu}$ )	
• 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 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 187 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>	200 A 500 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>	4 s 13 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>	1 500 A 6 000 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>	0.03 s 0.03 s
adjustable response value setting current (Ii) / for I-tripping	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	6 000 A 6 000 A
adjustable absolute value setting current (InN) / 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 (Tc CLASS)	10A, 10E, 20E
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	4 s 13 s
<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 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
<b>Connections</b>	
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
<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

#### Certificates

reference code / according to IEC 81346-2	Q		
General Product Approval	EMC		Declaration of Con- formity

[Confirmation](#)



[Miscellaneous](#)



Declaration of Con- formity	Test Certificates	Marine / Shipping	other
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EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)

[CCS / China Classification Society](#)

[Confirmation](#)

[Miscellaneous](#)

other	Dangerous Good	Environment
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[Miscellaneous](#)

[Transport Information](#)

[Environmental Conformations](#)

#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VA2450-0MN32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2450-0MN32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2450-0MN32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2450-0MN32-0AA0)

CAX-Online-Generator

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

Tender specifications

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





