## **Data sheet**

**SIEMENS** 

3VA2450-0MN32-0AA0



circuit breaker 3VA2 IEC frame 630 breaking capacity class E Icu=200 kA @ 415 V 3-pole motor protection ETU350M, LSI, In=500A overload protection Ir=160A ... 500A short circuit protection Isd=3...12xIr, Ii=12xIn 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/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
<ul> <li>communication function</li> </ul>	No
phase failure detection	Yes
<ul> <li>other measurement function</li> </ul>	No
Net Weight	5.05 kg
Current	
short-time withstand current (Icw) / 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 (Icu)	
● at 415 V	200 kA

● at 690 V	85 kA
operating short-circuit current breaking capacity (lcs)	
• at 415 V	200 kA
• at 690 V	65 kA
short-circuit current making capacity (lcm)	
• at 415 V	440 kA
• at 690 V	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 l2t characteristic	
• minimum	200 A
• maximum	500 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	4 s
• maximum	13 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum	1 500 A
• maximum	6 000 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (li) / for I-tripping	
• minimum	6 000 A
• maximum	6 000 A
adjustable absolute value setting current (InN) / for N-tripping	
• minimum	0 A
maximum	0 A
product function / grounding protection	No
adjustable trip class (Tc CLASS)	10A, 10E, 20E
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
• minimum	4 s
• maximum	13 s
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	9.76 in
height width fin]	248 mm 5.43 in
width [in]	5.43 in 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	20 x 1 mm
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar	35 x 10 mm
terminal connection / maximum  design of the surface / of the connections / on the top of the	silver
switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the	silver
switch (N, 2, 4, 6) Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	

General Product Approval		EMC	Declaration of Conformity
reference code / according to IEC 81346-2	Q		
Certificates			
<ul> <li>during storage / maximum</li> </ul>	80 °C		
<ul> <li>during storage / minimum</li> </ul>	-40 °C		
<ul><li>during operation / maximum</li></ul>	70 °C		
<ul><li>during operation / minimum</li></ul>	-25 °C		
ambient temperature			
protection class IP / on the front	IP40		

Confirmation



Miscellaneous







Declaration of Conformity	Test Certificates		Marine / Shipping	other	
<b>C €</b>	Special Test Certificate	Miscellaneous	CCS / China Classification Society	Confirmation	Miscellaneous

other Dangerous Good Environment

<u>Miscellaneous</u> <u>Transport Information</u> <u>Environmental Confirmations</u>

## 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, ...)

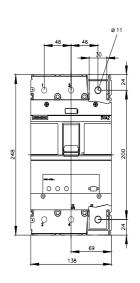
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA2450-0MN32-0AA0

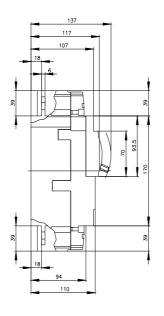
**CAx-Online-Generator** 

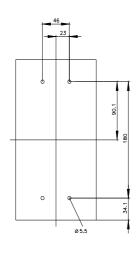
http://www.siemens.com/cax

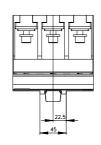
Tender specifications

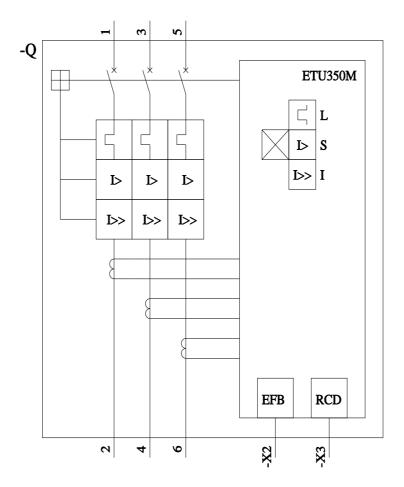
http://www.siemens.com/specifications











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