SIEMENS

Data sheet

3VA2110-7MN36-0AA0



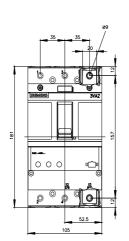
circuit breaker 3VA2 IEC frame 160 breaking capacity class C Icu=110kA @ 415V 3-pole, motor protection ETU350M, LSI, In=100A overload protection Ir=40A...100A short-circuit protection Isd=3...15 x Ir, Ii=15 x In clamp connection

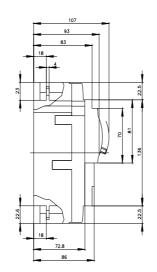
Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Motor protection
design of the overcurrent release	ETU350M
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
operating power / at AC-3 / at 400 V	55 000 W
operating power / at AC-3 / at 230 V	30 000 W
power loss [W] / maximum	10 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.33 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	5 000
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	2.266 kg
Current	
operational current	
● at 40 °C	100 A
● at 45 °C	100 A
● at 50 °C	100 A
● at 55 °C	100 A
● at 60 °C	100 A
● at 65 °C	100 A
● at 70 °C	100 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
● at 415 V	110 kA

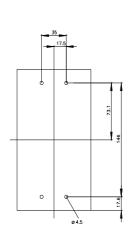
• at 500 V25 kAoperating shot-drout current breaking capacity (tes)50 kA• at 240 V150 kA• at 415 V110 kA• at 440 V10 kA• at 460 V25 kA• at 460 V30 kA• at 460 V242 kA• at 416 V242 kA• at 416 V242 kA• at 400 V37 kA• at 400 V37 kA• at 400 V30 kA• at 416 V242 kA• at 400 V37 kA• at 600 V37 kA• at 600 V37 kA• at 600 V100 KA• at 600 V10		
•••••••••••••••••••••••••••••••••••	• at 440 V	110 kA
operating short accurate breaking capacity (ites)Sec• all 440 V110 0A• all 415 V110 0A• all 415 V110 0A• all 416 V10 0A• all 416 V22 5 kAShort accurate making capacity (item)22 5 kA• all 415 V242 2 kA• all 415 V242 2 kA• all 416 V242 2 kA• all 415 V242 2 kA• all 416 V240 A• all 4		
••• 200 y000 A•••• 416 5 V110 b A••• at 60 V25 k A•••• at 60 V25 k A•••• at 60 V25 k A•••• at 60 V24 k A•••• at 20 V30 k A•••• at 20 V24 k A••••• at 20 V37 k A•••••••••••••••••••••••••••••••••••		2.5 kA
4:45 V10 kA•:16 40 V35 kA•:16 00 V35 kA•:16 00 V30 kA•:16 00 V30 kA•:16 00 V30 kA•:16 10 V30 kA<		
• 440 V10 kA• 8180 V25 kAstort-cruit current making capacity (icm)300 kA• • 420 V300 kA• • 1415 V424 kA• • 1416 V424 kA• • 140 V37 kA• • 140 V37 kA• • 160 V37 kAAljustable promotionNo• • 160 V00 A• • • • • • • • • • • • • • • • • • •		
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		
• 1800Y25 kAshort-crout current making capacity (cm)300 kA• • 1240V320 kA• • 1415 V322 kA• • 1600 V167 kA• • 1600 V167 kA• • 1600 V0• • 1600 V0 <td< td=""><td></td><td></td></td<>		
shot-aircuit uurent making capacity (icm)		
• 1240 V330 kA• 1240 V242 kA• 1145 V242 kA• 1150 V187 kAAdjustable parametersV• 1160 VNoedisable response value setting current (t/) / of the L tip / valueVedisable response value setting current (t/) / of the L tip / value0.0• naintum0.0 A• naintum4.5• naintum4.5• naintum0.0 A• naintum1.500 A• na		2.5 kA
• al 415 V242 kA• 440 V242 kA• 440 V242 kA• 4160 V37 kA• 1600 V37 kA• 1610 V0• 1610 V0 <td></td> <td></td>		
• al 440 V242 kA• a 150 V17 KAAdjustable promotesNoadjustable response value setting current (t/) / of the Lrip / vit/ t d'anametrie delay time (t/) / for L-tripping / vit/ tANo• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum40.A• naimum50.A• naimum60.3• naimum60.3• naimum50.A• naimum50.A <trr>• naimum50.A<td></td><td></td></trr>		
• at 800 V187 kA 3 7 kA 3 7 kAat 800 V37 kAat 800 V37 kAat 800 V37 kAat 800 V100 Ainitiation reactivity of the L-tip / with 12 characteristic40 A• initiation40 A• initiation100 A• in		
• aid80 V37 KAAdjustable paperationsNoadjustable response value setting current (iv) of the L-trip / value it characteristic0.0 Aadjustable response value delay time (iv) / for L-tripping / value characteristic4.0 Aadjustable response value delay time (iv) / for L-tripping / value characteristic4.9 A- innimum4.9 A- innimum1.00 Aadjustable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value setting current (isd) / of S-trip / value distable response value set		
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product feature / for L-tripping / can be switched ov/off No adjustable response value setting current (h) / of the L-trip / with 12 characteristic 40 A • inaimum 400 A • inaimum 400 A • inaimum 40 A • inaimum 4 S • inaimum 300 A • inaimum 300 A • inaimum 300 A • inaimum 300 A • inaimum 0.03 S • inaimum 0.03 S • inaimum 0.03 S • inaimum 1500 A		3.7 kA
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• maximum17 sadjustable response value setting current (lsd) / of S-trip / with thot characteristic500 A• minimum1500 A• maximum1500 Aadjustable response value delay time (lsd) / for S-tripping / with thot characteristic0.03 s• minimum0.03 s• maximum1500 A• maximum1500 A• maximum1500 A• maximum1500 A• maximum1500 A• maximum1500 A• maximum4500 A• maximum1500 A• maximum17 s• maximum17 s• maximum17 s• maximum17 s• nudervoltage releaseNo• voltage releaseNo• voltage releaseNo• voltage riggerNo• voltage riggerNo• voltage rigger160 run• voltage rigger105 run• voltage rigger339 in Call• voltage rigger339 in Call• voltage rigger339 in Call• voltage rigger105 run• voltager of electrical connectors / for main current circui400 scleade box terminal• voltage rigger105 run• voltager of electrical connectors / for main current circui600 scleade box terminal• opticati		
adjustable response value setting current (Isd) / of S-trip / with 10 characteristic 300 A • maimum 300 A adjustable response value delay time (Isd) / for S-tripping / with tic characteristic 0.03 s • minimum 0.03 s • maximum 1 500 A • maximum 1 7 s • maximum 1 7 s Mochanical Design 4 s • undervoltage release No • voltage trigger No • trip indicator No height [n] 7.13 in height [n] 3.39 in depth 86 mm	• minimum	4 s
Interactensitie 300 A • maximum 1500 A adjustable response value delay time (tsd) / for S-tripping / with 0 charactensite 0.03 s • maximum 0.03 s adjustable response value delay time (tsd) / for I-tripping 0.03 s • maximum 0.03 s adjustable response value setting current (ii) / for I-tripping 1500 A • maximum 17 s • maximum 17 s Mochanical Design No • voltage tigger No • voltage tigger No • rotation No • rotation 181 mm • rotation 166 mm • rotation 160 mm ² • rotation 16 for mi • voltage tigger No • vol	• maximum	17 s
• maximum 1 500 Å adjustable response value delay time (tsd) / for S-tripping / with 0.03 s • minimum 0.03 s • adjustable response value setting current (ii) / for I-tripping 1 500 Å • minimum 1 500 Å • maximum 1 500 Å • product function / grounding protection No • adjustable trip class (Tc CLASS) 10A 10E, 20E tripping time (Tp) / with adjustable trip class (Tc CLASS) 10A 10E, 20E • minimum 4 s • maximum 7 s Mechanical Dosign No • undervoltage release No • voltage trigger 143 in • trip indicator No • with [in] 1.13 in • trip indicator Simminum • depth [in] 3.39 in • depth [in] 3.39 in • depth [in] Goulde-sided box terminal • depth [in] Goulde-sided box terminal • depth [in] Goulde-sided box terminal		
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bit characteristic 0.03 s • maximum 0.03 s adjustable response value setting current (ii) / for I-tripping • • minimum 1 500 A • maximum 1 500 A • maximum 1 500 A • product function / grounding protection No adjustable trip class (Tc CLASS) 10A, 10E, 20E • tripping time (Tp) / with adjustable trip class (Tc CLASS) • • maximum 1 7 s Machanical Design • product component • • undervoltage release No • voltage trigger No • trip indicator No • height [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 105 mm width 105 mm depth [in] 3.39 in depth [in] 3.39 in degtin of the connections / or the top of the switch (N, 1, 3, 5) Front terminal width (N, 1, 3, 5) front terminal design of the surface / of the connections / on the top of the switch (N, 2, 4, 6) tin	• maximum	1 500 A
• maximum 0.03 s adjustable response value setting current (ii) / for I-tripping - • minimum 1 500 A • maximum 1 500 A • maximum 1 500 A adjustable trip class (To CLASS) 10A, 10E, 20E • tripping time (Tp) / with adjustable trip class (To CLASS) 10A, 10E, 20E • maximum 4 s • maximum 17 s Mechanical Design - • voltage release No • voltage rigger No • voltage rigger No • trip indicator No height (in] 7.13 in height [in] 4.13 in type of connectable conductor cross-sections / of the round 1x (6 - 120 mm ²) conductor terminal / stranded 126 mm width (in] 0.50 mm conductor terminal / stranded 3.39 in depth (in) 3.39 in depth (in) 3.39 in depth (in] 0.50 mm depth (in) 0.50 mm depth (in) 3.39 in d		
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• minimum 1 500 Å • maximum 1 500 Å 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 17 s Machanical Design - product component - • undervoltage release No • voltage trigger No • trip indicator No height 181 mm width [in] 1.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 105 mm depth [in] 3.39 in depth [in] 3.39 in depth (In] 66 mm Connectable connection / for main current circuit Front terminal type of electrical connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin	• maximum	0.03 s
• maximum 1 500 Å product function / grounding protection No adjustable trip class (Tc CLASS) No 10E, 20E tripping time (Tp) / with adjustable trip class (Tc CLASS) - • minimum 4 s • maximum 17 s Mechanical Design - product component - • undervoltage release No • oklage trigger No • trip indicator No height [in] 7.13 in height [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 105 mm width 0.05 mm depth [in] 3.39 in depth [in] 3.39 in depth (In] 3.39 in depth (In] 3.39 in depth (In] 3.39 in depth (In] 6 mm connection / for main current circuit Front terminal type of electrical connection / for main current circuit front terminal depth (In] 0.50 mm depth (In] 1.50 mm	adjustable response value setting current (li) / for I-tripping	
product function / grounding protection No adjustable trip class (Tc CLASS) 10A, 10E, 20E tripping time (Tp) / with adjustable trip class (Tc CLASS) 4 s • minimum 4 s • maximum 17 s Mechanical Design	• minimum	1 500 A
adjustable trip class (Tc CLASS) 10A, 10E, 20E tripping time (Tp) / with adjustable trip class (Tc CLASS) 4 s • maximum 17 s Mechanical Design 10 product component No • undervoltage release No • trip indicator No • trip indicator No height [in] 7.13 in height [in] 4.13 in width [in] 4.13 in width [in] 4.13 in width [in] 3.99 in depth 86 mm Connections Foot terminal arrangement of electrical connectors / for main current circuit Foot terminal type of electrical connectors / on the top of the swritch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the swritch (N, 2, 4, 6) tin	• maximum	1 500 A
tripping time (Tp) / with adjustable trip class (Tc CLASS) 4 s • maximum 17 s Mechanical Design 17 s product component • undervoltage release • undervoltage release No • voltage trigger No • trip indicator No height [in] 7.13 in height [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 105 mm width 105 mm depth [in] 3.39 in depth [in] 3.39 in depth (N_1, 3, 5) Front terminal type of electrical connections / or main current circuit footble-sided box terminal type of electrical connectors / for main current circuit footble-sided box terminal design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin	product function / grounding protection	No
	adjustable trip class (Tc CLASS)	10A, 10E, 20E
• maximum 17 s Mechanical Design Product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 7.13 in height [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 11 x (6 - 120 mm²) width [in] 3.39 in depth [in] 3.39 in depth [in] 6 mm Connections Front terminal arrangement of electrical connectors / for main current circuit Front terminal type of electrical connections / on the top of the switch (N, 1, 3, 4, 6) tin design of the surface / of the connections / on the top of the switch (N, 2, 4, 6) tin	tripping time (Tp) / with adjustable trip class (Tc CLASS)	
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] 181 mm width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth depth depth final arrangement of electrical connectors / for main current circuit type of electrical connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	• minimum	4 s
product component	• maximum	17 s
• undervoltage release No • voltage trigger No • trip indicator No height [in] 7.13 in height [in] 7.13 in width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 1x (6 - 120 mm²) width 105 mm depth [in] 3.39 in depth [in] 86 mm Connections Front terminal arrangement of electrical connectors / for main current circuit Front terminal design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin	Mechanical Design	
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• trip indicatorNoheight [in]7.13 inheight181 mmwidth [in]4.13 intype of connectable conductor cross-sections / of the round conductor terminal / stranded1 x (6 - 120 mm²)width105 mmdepth [in]3.39 indepth [in]86 mmConnectionsFront terminaldepth of electrical connectors / for main current circuitfype of electrical connectors / for main current circuitFront terminaldesign of the surface / of the connections / on the top of the switch (N, 1, 3, 5)tindesign of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)tin	undervoltage release	No
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conductor terminal / stranded Intervention width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit from terminal Front terminal design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin	width [in]	4.13 in
depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit arrangement of electrical connectors / for main current circuit Front terminal dype of electrical connection / for main current circuit double-sided box terminal design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin		1 x (6 - 120 mm²)
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Connections arrangement of electrical connectors / for main current circuit Front terminal type of electrical connection / for main current circuit double-sided box terminal design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) tin	depth [in]	3.39 in
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type of electrical connection / for main current circuit double-sided box terminal design of the surface / of the connections / on the top of the tin switch (N, 1, 3, 5) tin design of the surface / of the connections / on the bottom of the tin switch (N, 2, 4, 6) tin	Connections	
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switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	type of electrical connection / for main current circuit	double-sided box terminal
switch (N, 2, 4, 6) Auxiliary circuit		tin
		tin
number of CO contacts / for auxiliary contacts 0	Auxiliary circuit	
	number of CO contacts / for auxiliary contacts	0

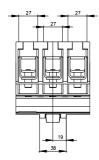
Accessories						
product extension / optional / motor drive		Yes				
Environmental condition	ns					
protection class IP / on	the front		IP40			
ambient temperature						
 during operation 	/ minimum		-25 °C			
 during operation 	/ maximum		70 °C			
 during storage / n 	ninimum		-40 °C			
 during storage / n 	maximum		80 °C			
Certificates						
reference code / accord			Q			
General Product Appr	roval					EMC
<u>Confirmation</u>		VDE	•	<u>Miscellaneous</u>	EAC	RCM
Declaration of Confor	mity	Test Certificate	es		Marine / Shipping	
CE EG-Konf.	UK CA	<u>Special Test Cearse ate</u>	ertific-	<u>Miscellaneous</u>	B UREAU VERITAS	
Marine / Shipping	other				Dangerous Good	Environment
CCS / China Classific- ation Society	<u>Confirmation</u>	Miscellaneo	<u>us</u>	<u>Miscellaneous</u>	Transport Information	Environmental Con- firmations

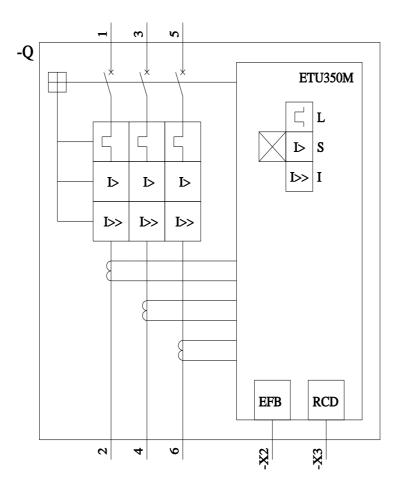
Further information
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the 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=3VA2110-7MN36-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-7MN36-0AA0
lmage database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-7MN36-0AA0
CAx-Online-Generator
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