SIEMENS

Data sheet 3VA2125-5MN32-0AA0



circuit breaker 3VA2 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 3-pole, motor protection ETU350M, LSI, In=25A overload protection Ir=10A...25A short-circuit protection Isd=3...15 x Ir, Ii=15 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	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	11 000 W
operating power / at AC-3 / at 230 V	5 500 W
power loss [W] / maximum	0.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.2 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	14 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	9 800
Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz	10 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	Without
product function	
● communication function	No
● phase failure detection	Yes
● other measurement function	No
Net Weight	2.179 kg
Current	
Max. rated operational current of the frame size	160 A
Courant permanent assigné Iu	25 A
operational current	
● at 40 °C	25 A
● at 45 °C	25 A
● at 50 °C	25 A
● at 55 °C	25 A
● at 60 °C	25 A
● at 65 °C	25 A
● at 70 °C	25 A

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Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	E
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	2.5 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	121 kA
• at 500 V	75.6 kA
• at 690 V	3.7 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	10 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	25 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	4 s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	17 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic / minimum	75 A
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic / maximum	375 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic / minimum	0.03 s
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic / maximum	0.03 s
adjustable response value setting current (Ii) / for I-tripping / maximum	375 A
adjustable response value setting current (Ii) / for I-tripping / minimum	375 A
adjustable absolute value setting current (InN) / for N-tripping / maximum	0 A
adjustable absolute value setting current (InN) / for N-tripping / minimum	0 A
Adjustable response value current / Ii min.	375 A
Adjustable response value current / Ii max.	375 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
adjustable trip class (Tc CLASS)	10A, 10E, 20E
tripping time (Tp) / with adjustable trip class (Tc CLASS) / minimum	4 s
tripping time (Tp) / with adjustable trip class (Tc CLASS) / maximum	17 s
Mechanical Design	
height [in]	7.13 in
Height	181 mm
width [in]	4.13 in
Width	105 mm
depth [in]	3.39 in
depth	86 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal

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type of electrical connection / for main current circuit	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm
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
Auxiliary circuit	
product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
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
Certificates	
reference code / according to IEC 81346-2	Q

General Product Approval

Confirmation







Miscellaneous



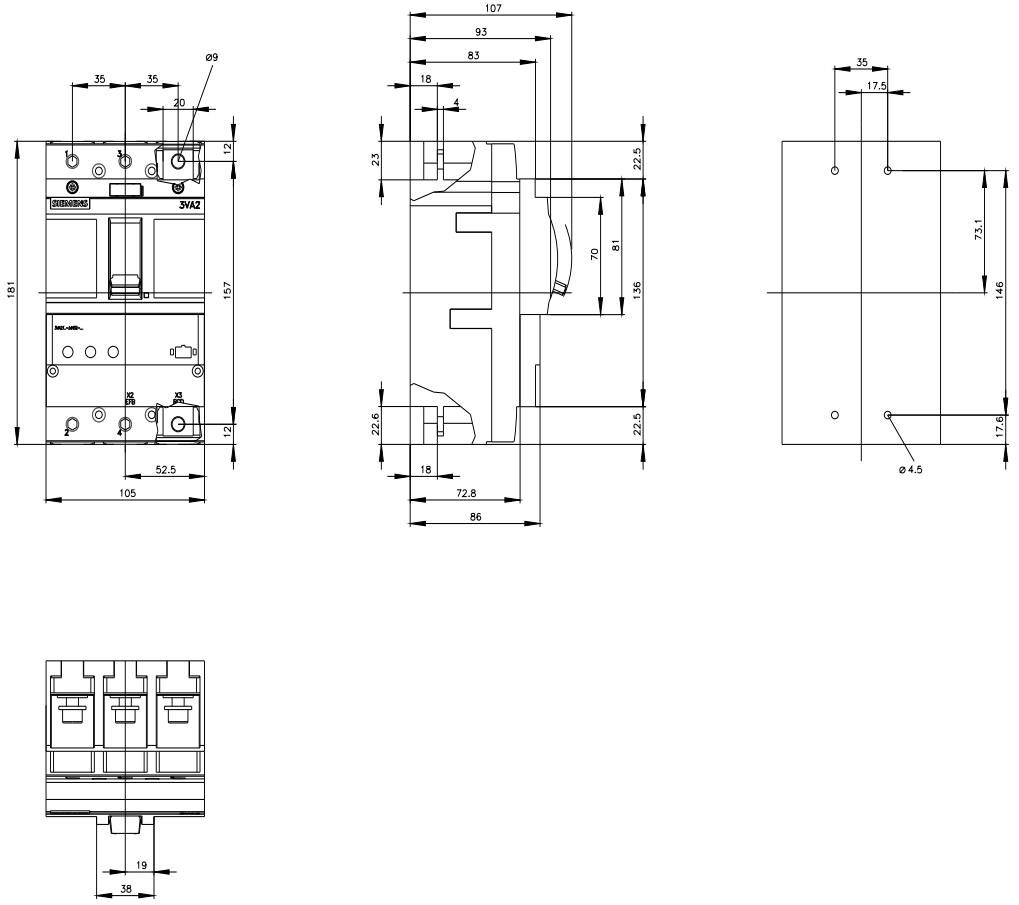
EMC	Declaration of Conformity	Test Certificates		Marine / Shipping
			Miscellaneous	Special Test Certific-ate	

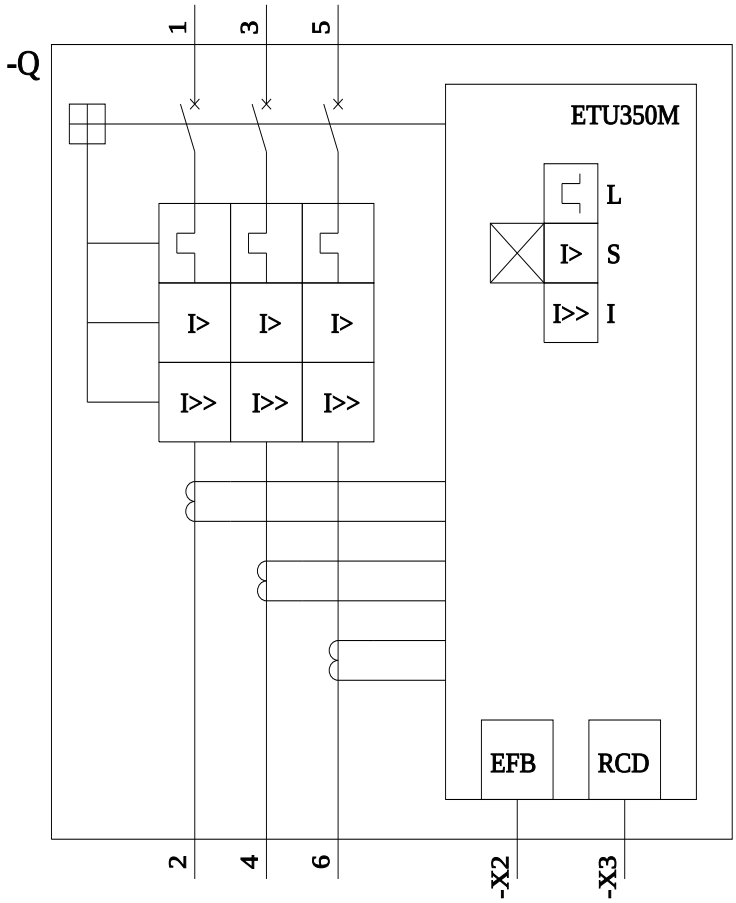
Marine / Shipping		other			
	CCS / China Classi-fication Society	Miscellaneous	Confirmation	Environmental Con-firmations	Miscellaneous

Further information

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=3VA2125-5MN32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2125-5MN32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-5MN32-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications

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