## SIEMENS

## Data sheet

## 3VA6110-5HM31-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 480V 3-pole, Line protection ETU330, LIG, In=100A overload protection, 100% rated Ir=40A...100A Short-circuit protection Ii=1.5...12 x In Ground-fault protection Ig=0.2...1 x In, tg=0.1/0.3s without connection

Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	MDAE		
design of the product	System protection		
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes		
design of the overcurrent release	ETU330		
protection function of the overcurrent release	LIG		
number of poles	3		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	13 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.33 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 480 V	14 000		
electrical endurance (operating cycles) / at 600 V	9 800		
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No		
ground-fault monitoring version	Summation current formation L-conductor		
product function			
<ul> <li>communication function</li> </ul>	No		
<ul> <li>other measurement function</li> </ul>	No		
Net Weight	2.3 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	Yes		
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	Μ		
maximum short-circuit current breaking capacity (Icu)			

• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
● at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	100 1.4
• at 240 V	100 kA
• at 480 V	35 kA
• at 600 V	18 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	40 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	17 s
adjustable response value setting current (li) / for I-tripping	
minimum	150 A
• maximum	1 200 A
adjustable current response value current / for G-tripping / with standard characteristic	1200 A
initial value	20 A
full-scale value	100 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	100 A
minimum	0.1 s
• maximum	0.3 s
adjustable setting current (InN) / for N-tripping	0.0 8
	0.4
• minimum	
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	150 A
● maximum	1 200 A
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	
• initial value	0.1 s
• full-scale value	0.3 s
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	4.13 in
width	4.13 m 105 mm
depth [in]	3.39 in
depth	86 mm
Connections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
Auxiliary circuit	

number of CO contacts / for auxiliary contacts		0		
Accessories				
product extension / optional / motor drive		Yes		
invironmental conditions				
protection class IP / on the front		IP40		
ambient temperature				
<ul> <li>during operation / minimum</li> </ul>		-25 °C		
<ul> <li>during operation / maximum</li> </ul>		70 °C		
<ul> <li>during storage / minimum</li> </ul>		-40 °C		
<ul> <li>during storage / maximum</li> </ul>		80 °C		
Certificates				
reference code / according to IEC 81346-2		Q		
certificate of suitability / as approval for NAVAL (r vessels) / supplement SB	io combat	Yes		
General Product Approval				
Confirmation	ա	(H)	<u>Miscellaneous</u>	FAC
EMC Declaration of Confor	mity	Marine / Shipping		other
	CE EG-Konf.	ABS		<u>Miscellaneous</u>
other	Dangerous Good			
Confirmation Miscellaneous	Transport Information			
urther information				
Siemens has decided to exit the Russian mark https://press.siemens.com/global/en/pressrelease				
Siemens is working on the renewal of the curr Please contact your local Siemens office on the s EAC relevant market (other than the sanctioned E	ent EAC certificates tatus of validity of	tes.	tend to import or offer to su	pply these products to ar

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=3VA6110-5HM31-2AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-5HM31-2AA0

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

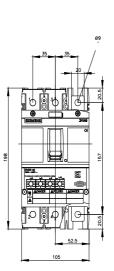
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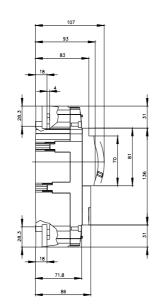
CAx-Online-Generator

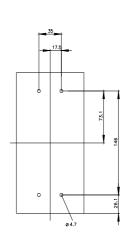
http://www.siemens.com/cax

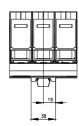
**Tender specifications** 

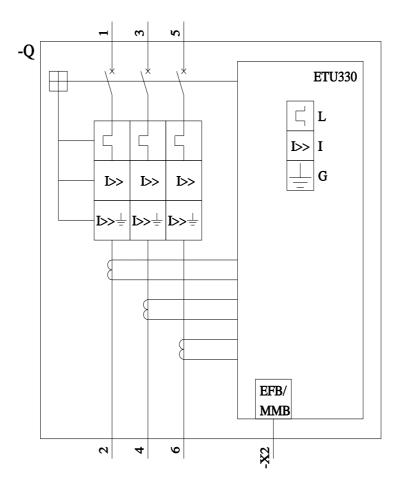
http://www.siemens.com/specifications

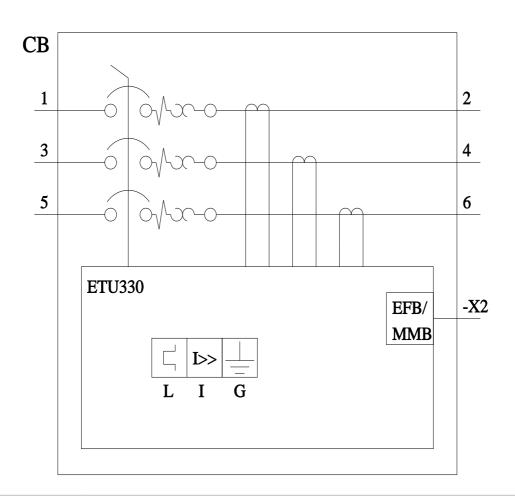












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