## **Data sheet**

## 3VA2116-5HM36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION II=1,5...10 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS CABLE CONNECTION

Model	
product brand name	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Product variations	Selective Applications
Ground fault monitoring version	Summation current formation L-conductor
Design of the auxiliary release	without auxiliaryrelease
Design of the auxiliary switch	Without
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	ETU330

General technical data				
Number of poles		3		
Trip class / of the L-trip / with I2t characteristic / initial value		0.5		
Trip class / of the L-trip / with I2t characteristic / Full-scale value		17		
Electrical endurance (switching cycles)				
● at AC-1 / at 380/415 V / at 50/60 Hz		12 000		
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.1		
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3		
circuit-breaker / Design		3VA		
Mechanical service life (switching cycles) / typical		20 000		

Voltage		
Insulation voltage / Rated value	V	800
Protection class	_	
Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
Trocours famous of the crocount of trocous		2.0
Switching capacity		
Switching capacity class of the circuit breaker		M
Dissipation		
Active power loss		
• maximum	W	25.5
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	Α	160
Adjustable response value current / of the	Α	1.5
instantaneous short-circuit release / initial value	, ,	
Main circuit Operating voltage		
	V	690
• with AC / at 50/60 Hz / Rated value	V	090
Operating current	<b>A</b>	100
• at 40 °C / Rated value	A	160
• at 50 °C / Rated value	Α	160
● at 60 °C / Rated value	Α	160
• at 65 °C / Rated value	Α	160
• at 70 °C / Rated value	Α	160
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable peremeters		
Adjustable parameters  Adjustable response value current		
• for G-tripping / with standard characteristic /	Α	0.2
initial value	A	0.2
for G-tripping / with standard characteristic /	Α	1
Full-scale value		
of I-trip / Full-scale value	Α	10
Adjustable response value current / of the current-	Α	0.394
dependent overload release / initial value		

Product details		
Product component		
Trip indicator		No
• display		No
undervoltage release		No
Product property		
• of the circuit breaker with tripping unit / Tripping		Yes
characteristic adjustable		
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Troduct expansion / optional / motor drive		163
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)	kA	85
at 240 V / Rated value	kA	55
at 415 V / Rated value	kA	55
at 440 V / Rated value     at 500 V / Rated value	kA	36
<ul><li>at 500 V / Rated value</li><li>at 690 V / Rated value</li></ul>	kA	2.5
Maximum short-circuit current breaking capacity (Icu)	IVA	2.0
• at 240 V / Rated value	kA	85
at 415 V / Rated value	kA	55
at 440 V / Rated value		
- מו דדט V / ו/מוכט Valuc	KA	55
• at 500 V / Rated value	kA kA	55 36
at 500 V / Rated value  at 690 V / Rated value	kA	36
• at 690 V / Rated value		
at 690 V / Rated value  Short-circuit current making capacity (Icm)	kA kA	36 2.5
<ul> <li>at 690 V / Rated value</li> <li>Short-circuit current making capacity (Icm)</li> <li>at 240 V / Rated value</li> </ul>	kA kA kA	36 2.5 187
<ul> <li>at 690 V / Rated value</li> <li>Short-circuit current making capacity (Icm)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA	36 2.5 187 121
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Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
<ul> <li>of the round conductor terminal / stranded</li> </ul>		1 x (6-120 mm²)
Type of electrical connection / for main current circuit		Box terminal
Mechanical Design		
Hoight	mm	101

Mechanical Design				
Height	mm	181		
Width	mm	105		
Depth	mm	107		
Mounting type		fixed mounting		

Environmental conditions				
Ambient temperature				
<ul><li>during operation / minimum</li></ul>	°C	-25		
<ul><li>during operation / maximum</li></ul>	°C	70		
<ul><li>during storage / minimum</li></ul>	°C	-40		
<ul><li>during storage / maximum</li></ul>	°C	80		

Certificates				
Equipment marking				
• acc. to DIN EN 61346-2		Q		
● acc. to DIN EN 81346-2		Q		

General Prod	luct Approval	EMC	Declaration of Conformity	other	
	^	 other		other	_







## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21165HM360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21165HM360AA0/all

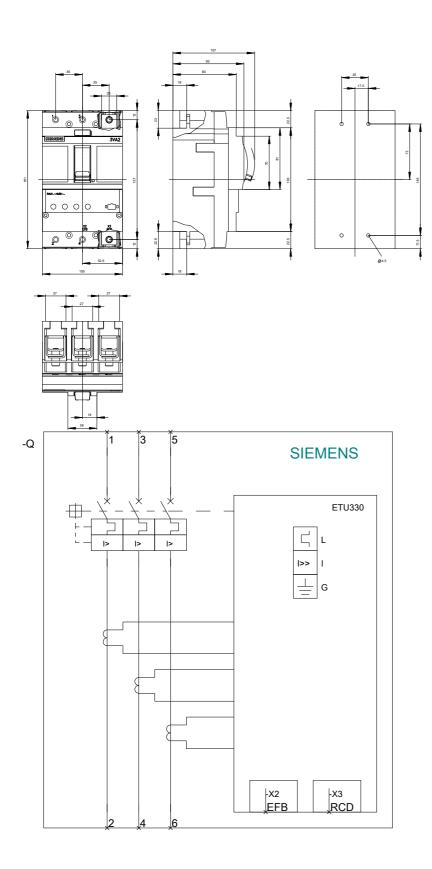
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21165HM360AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv



last modified: 11.03.2015