



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION II=1,5...10 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS CABLE CONNECTION

Similar to image

### General technical data:

product brand name		SETRON
Product designation		Molded Case Circuit Breakers
Acceptability for application		system protection
Design of the product		Line Protection
Product function		
• communication function		No
• other measurement function		No
Product component / display		No
Design of the overcurrent release		ETU330
Protective function of the overcurrent release		LIG
Product property / for zero conductors / up/downgradable / short-circuit and overload protection		No
Continuous current / rated value	A	160
Operating voltage		
• at 50/60 Hz / for AC / rated value	V	690
Insulation voltage / rated value	V	800
Number of poles		4
Active power loss / maximum	W	25.5

<b>Switching capacity class of the circuit breaker</b>		M
<b>Protection class IP / on the front</b>		IP40

#### Motor rating data:

<b>Product function / phase disturbance recognition</b>		No
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#### Schaltvermögen:

<b>Breaking capacity limit short-circuit current (Icu)</b>		
• at 240 V / rated value	kA	85
• at 415 V / rated value	kA	55
• at 690 V / rated value	kA	2.5
<b>Breaking capacity operating short-circuit current (Ics)</b>		
• at 240 V / rated value	kA	85
• at 415 V / rated value	kA	55
• at 690 V / rated value	kA	2.5
<b>Ultimate short-circuit current making capacity (Icm)</b>		
• at 240 V / rated value	kA	187
• at 415 V / rated value	kA	121
• at 690 V / rated value	kA	3.75

#### Overcurrent Release:

<b>Adjustable response current</b>		
• of the current-dependent overload release	A	0.394 ... 1
• of the non-delayed short-circuit release / initial value	A	1.5
<b>Settable current response value / of I-trip / end value</b>		
• with standard characteristic	A	10
• with standard characteristic	A	0.2 ... 1
	s	0.1 ... 0.3

#### Connections:

<b>Design of the electrical connection</b>		
• for main current circuit		Frame terminal

#### Control circuit:

<b>Number of changeover contacts</b>		
• for auxiliary contacts		0
<b>Product component</b>		
• undervoltage release mechanism		No
• Voltage trigger		No
• undervoltage release with leading contact		No
• trip indicator		No
<b>Manufacturer article number</b>		
• 3 of the integrated auxiliary switch /alarm switch		

- of integrated auxiliary trip

#### Ambient conditions:

##### Ambient temperature

- during operating
- during storage

°C	-25 ... +70
°C	-40 ... +80

#### Dimensions and weights:

Width	mm	140
Height	mm	181
Depth	mm	107
Net weight	g	3,125

#### Lebensdauer:

Mechanical operating cycles as operating time / typical		20,000
Reference code / according to DIN EN 61346-2		Q

#### Certificates/approvals:

##### Declaration of Conformity

#### 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/3VA2116-5HM46-0AA0>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

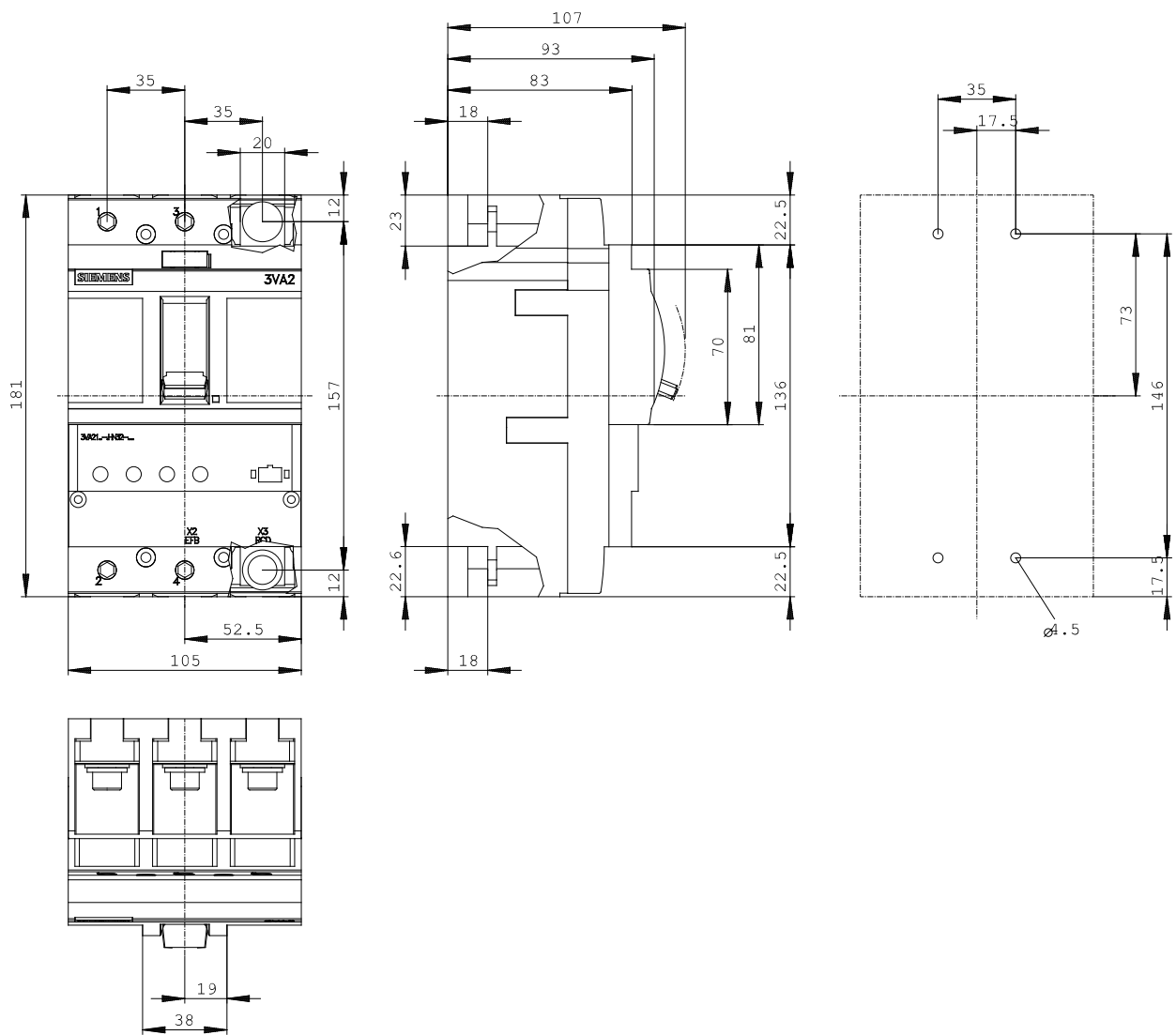
<http://support.automation.siemens.com/WW/view/en/3VA2116-5HM46-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2116-5HM46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2116-5HM46-0AA0)

##### CAX-Online-Generator

<http://www.siemens.com/cax>



**last change:**

May 14, 2014