



circuit breaker 3VA2 IEC frame 160 breaking capacity class H
Icu=85kA @ 415V 3-pole, line protection ETU350, LSI, In=160A
overload protection Ir=63A...160A short-circuit protection Isd=1.5...10
x Ir, li=10 x In nut keeper kit circuit breaker 3VA2 IEC frame 160
breaking capacity class H Icu=85kA @ 415V 3-pole, line protection
ETU350, LSI, In=160A overload protection Ir=63A...160A short-circuit
protection Isd=1.5...10 x Ir, UNDERVOLTAGE RELEASE 208-230 V
AC 50/60 HZ ACCESSORY FOR 3VA1 3 AUXILIARY SWITCH
CHANGEOVER H

Model	
Product brand name	SETRON
Product designation	Molded case circuit breaker
Product version	Line protection
Design of the overcurrent release	ETU350
Protective function of the overcurrent release	LSI
Number of poles	3
Design of the auxiliary release	Undervoltage release (UVR)
Auxiliary contact version	3 auxiliary switches HQ

General technical data	
Rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Power loss [W] / maximum	25.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.5 W
Latching - endurance	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000

Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No
Net weight	2.29 kg

Current

Max. rated operational current of the frame size	160 A
Rated continuous current I _u	160 A
Operating current	
• at 40 °C	160 A
• at 45 °C	160 A
• at 50 °C	160 A
• at 55 °C	160 A
• at 60 °C	160 A
• at 65 °C	160 A
• at 70 °C	160 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	H
Maximum short-circuit current breaking capacity (I _{cu})	
• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	2.5 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	2.5 kA
Short-circuit current making capacity (I _{cm})	
• at 240 V	242 kA
• at 415 V	187 kA
• at 440 V	187 kA
• at 500 V	121 kA
• at 690 V	3.8 kA

Adjustable parameters

Adjustable response value current / I _r min.	63 A
Adjustable response value current / I _r max.	160 A
Adjustable response value time / t _r min.	0.5
Adjustable response value time / t _r max.	17
Adjustable response value current / I _{sd} min.	240 A
Adjustable response value current / I _{sd} max.	1 600 A
Short-term delayed / tripping switchable / I _{2t} =ON/OFF	No
Adjustable response value time / t _{sd} min.	0 s
Adjustable response value time / t _{sd} max.	0 s
Adjustable response value time / t _{sd} min.	0.02 s
Adjustable response value time / t _{sd} max.	0.4 s
Adjustable response value current / I _i min.	1 600 A
Adjustable response value current / I _i max.	1 600 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No

Mechanical Design

Height [in]	7.1 in
Height	181 mm
Width [in]	4.1 in
Width	105 mm
Depth [in]	3.4 in
Depth	86 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Lug terminal
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 8.5

Auxiliary circuit

Product component	
• undervoltage release	Yes
• Voltage trigger	No
• undervoltage release with leading contact	No
• Trip indicator	No
Number of CO contacts / for auxiliary contacts	3

Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA12

- of the integrated auxiliary trip

3VA9608-0BB25

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 / acc. to DIN EN 81346-2	Q
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General Product Approval

EMC



[Miscellaneous](#)



Declaration of Conformity

Test Certificates

Shipping Approval



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Shipping Approval

other



[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

[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=3VA2116-6HN32-0DD0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2116-6HN32-0DD0>

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

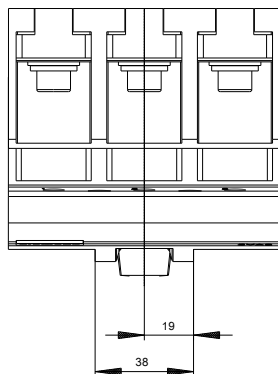
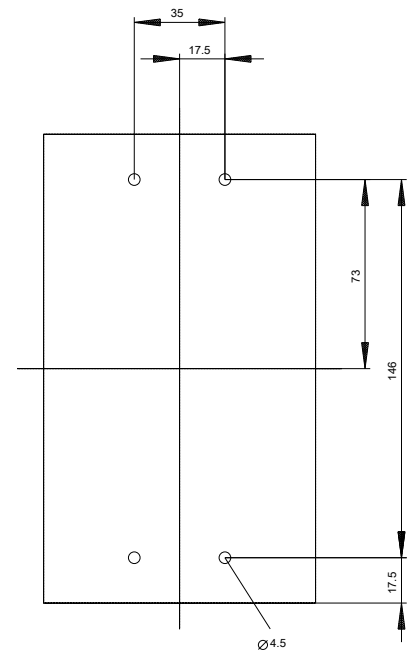
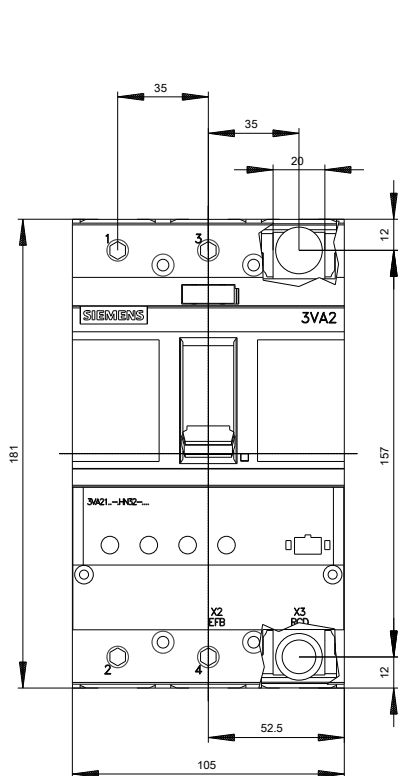
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2116-6HN32-0DD0

CAX-Online-Generator

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

Tender specifications

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



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