



circuit breaker 3VA2 IEC frame 1000 breaking capacity class C
Icu=110kA @ 415V 4-pole, line protection ETU320, LI, In=800A
overload protection Ir=320A...800A short-circuit protection li=1.5...12
x In N conductor protection adjustable (OFF, 50%, 100%) nut keeper
kit

Model	
product brand name	SETRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU320
protection function of the overcurrent release	LI
number of poles	4

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
power loss [W] / maximum	231 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	77 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 600
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 200
Neutral conductors / upgradeable/retrofittable	No

ground fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No

Current

Max. rated operational current of the frame size	1 000 A
Courant permanent assigné Iu	800 A
operating current	
• at 40 °C	800 A
• at 45 °C	800 A
• at 50 °C	800 A
• at 55 °C	800 A
• at 60 °C	800 A
• at 65 °C	767 A
• at 70 °C	703 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	35 kA
operational short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	85 kA
• at 440 V	70 kA
• at 500 V	65 kA
• at 690 V	19 kA
short-circuit current making capacity (Icm)	
• at 240 V	440 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	187 kA
• at 690 V	74 kA

Adjustable parameters

Adjustable response value current / I _g min.	320 A
Adjustable response value current / I _g min.	800 A
Adjustable response value current / I _g min.	0.5
Adjustable response value current / I _g min.	17

Adjustable response value current / li min.	1 200 A
Adjustable response value current / li max.	8 000 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design

height [in]	12.6 in
Height	320 mm
width [in]	11 in
Width	280 mm
depth [in]	4.7 in
depth	120 mm

Connections

arrangement of electrical connectors / for main current circuit	Front terminal
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.	20 x 4 mm

Auxiliary circuit

number of CO contacts / for auxiliary contacts	0
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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	Declaration of Conformity
 CCC	 VDE	 EAC	 RCM
Miscellaneous		 EG-Konf.	

Test Certificates	Shipping Approval	other		
Miscellaneous	 LRS	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=3VA2580-7HL42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-7HL42-0AA0>

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

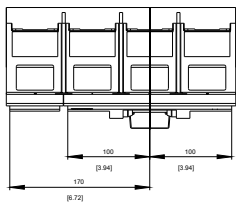
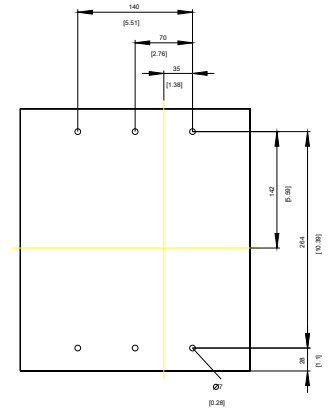
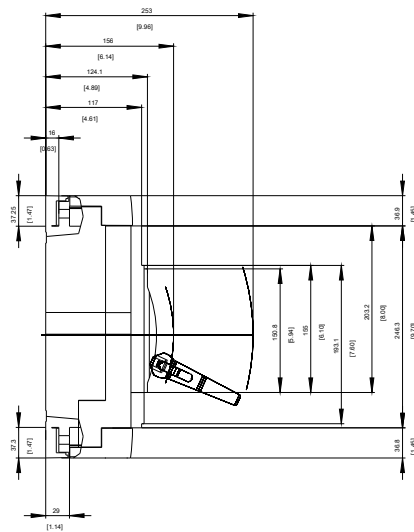
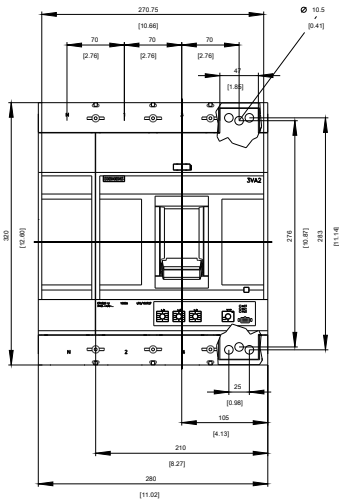
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-7HL42-0AA0

CAX-Online-Generator

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

Tender specifications

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



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