

circuit breaker 3VA2 IEC frame 1000 breaking capacity class M  
 $I_{cu}=55kA @ 415V$  3-pole, line protection ETU550, LSI,  $I_n=800A$   
 overload protection  $I_r=320A...800A$  short-circuit protection  
 $I_{sd}=0.6..10x I_n$ ,  $I_i=1.5..12x I_n$  N conductor protection optionally with  
 external current transformer, up to 160% nut keeper kit shunt trip  
 (STL) 110-127V DC, AC 50/60Hz 2 auxiliary switches HQ 1 trip  
 alarm switch HQ



Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Product version	Line protection
Design of the overcurrent release	ETU550
Protective function of the overcurrent release	LSI
Number of poles	3

General technical data	
Rated insulation voltage $U_i$	800 V
Max. rated operational voltage $U_e$ with AC 50/60Hz	690 V
Power loss [W] / maximum	135 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	45 W
Latching - endurance	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	5 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
Neutral conductors / upgradeable/retrofittable	Yes

Ground fault monitoring version	Without
Product function	
• communication function	Yes
• other measurement function	No

### Current

Max. rated operational current of the frame size	1 000 A
Rated continuous current I <sub>u</sub>	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	M
Maximum short-circuit current breaking capacity (I <sub>cu</sub> )	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	25 kA
Operational short-circuit current breaking capacity (I <sub>cs</sub> )	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	19 kA
Short-circuit current making capacity (I <sub>cm</sub> )	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	53 kA

### Adjustable parameters

Adjustable response value current / I <sub>r</sub> min.	320 A
Adjustable response value current / I <sub>r</sub> max.	800 A
Adjustable response value time / t <sub>r</sub> min.	0.5
Adjustable response value time / t <sub>r</sub> max.	25
Adjustable response value current / I <sub>sd</sub> min.	480 A
Adjustable response value current / I <sub>sd</sub> max.	8 000 A
Adjustable response value time / t <sub>sd</sub> min.	0.05 s
Adjustable response value time / t <sub>sd</sub> max.	0.5 s
Adjustable response value time / t <sub>sd</sub> min.	0.05 s
Adjustable response value time / t <sub>sd</sub> max.	0.5 s

Adjustable response value current / li min.	1 200 A
Adjustable response value current / li max.	8 000 A
Design of the N-conductor protection	Without
Ground fault protection / tripping switchable / I2t=ON/OFF	No

### Mechanical Design

Height [in]	12.6 in
Height	320 mm
Width [in]	8.3 in
Width	210 mm
Depth	120 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.	20 x 4

### Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul>	<ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> <li>80 °C</li> </ul>

### Certificates

Reference code / acc. to DIN EN 81346-2	Q
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<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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[Miscellaneous](#)



<b>Test Certificates</b>	<b>Shipping Approval</b>	<b>other</b>
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[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=3VA2580-5JP32-0JH0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-5JP32-0JH0>

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

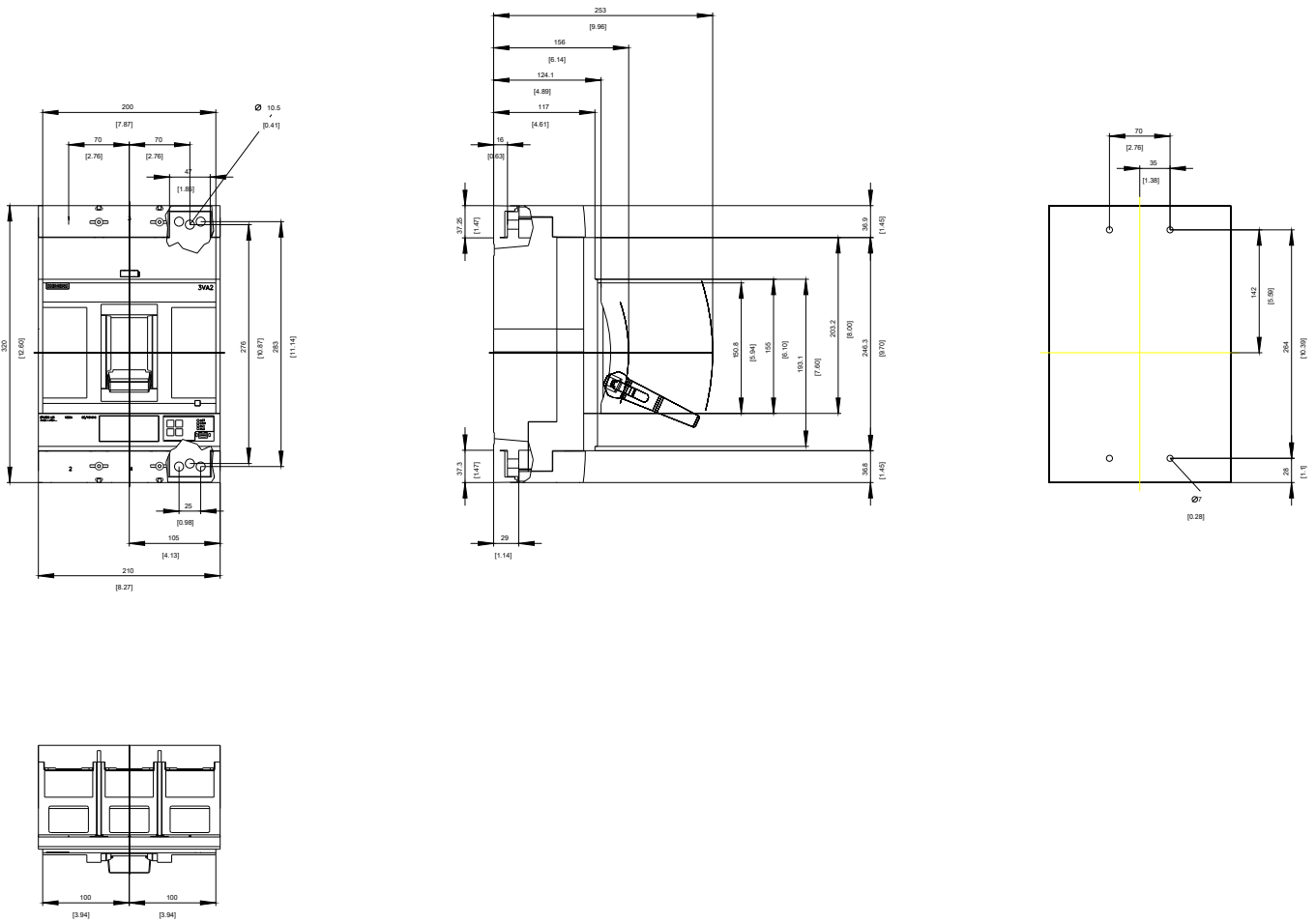
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2580-5JP32-0JH0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-5JP32-0JH0)

**CAX-Online-Generator**

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

**Tender specifications**

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



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09/13/2019