

fixed-mounted sw. disconnecter with handle frame 1600; 4AUX Icu=55kA @ 415V, 3-pole SD100; In=1250A without overload protection w/o short-circuit protection straight bus connector extended No communication connection, no measurement function With trip alarm switch TAS and trip alarm switch S25 With mechanical calling with 2nd auxiliary release UVR, instant Undervoltage 24 V AC/DC without 1st auxiliary release

Model	
product designation	circuit breaker
design of the product	LTS
design of the actuating element	toggel handle actuator
type of the driving mechanism	manual operating mechanism
type of the driving mechanism / motor drive	No
design of the overcurrent release	SD100
General technical data	
number of poles	3
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	2 000
insulation voltage / rated value	1 000 V
operational current	
• at 45 °C / rated value	1 250 A
continuous current / rated value / maximum	1 250 A
Supply voltage	
operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP / on the front	IP20
Breaking Capacity	
switching capacity class of the circuit breaker	M
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	47 W
• maximum	141 W
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	4
Suitability	
suitability for use	circuit breaker
Product details	
product component	
• trip indicator	No
• voltage trigger	No
• undervoltage release	Yes
product extension / optional / motor drive	No
Product function	
product function	
• communication function	No
Display and operation	
display version	Without display
Short circuit	
operating short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	55 kA
• at 440 V / rated value	55 kA

<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	36 kA 25 kA
<b>maximum short-circuit current breaking capacity (Icu)</b>	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	100 kA 55 kA 55 kA 36 kA 25 kA
<b>short-circuit current making capacity (Icm)</b>	
<ul style="list-style-type: none"> <li>• at 240 V / rated value</li> <li>• at 415 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	220 kA 121 kA 121 kA 75.6 kA 53 kA

### Connections

arrangement of electrical connectors / for main current circuit	Main connection at the front, extension enclosed
type of electrical connection / for main current circuit	busbar connection

### Mechanical Design

<b>height</b>	296 mm
<b>width</b>	210 mm
<b>depth</b>	183 mm
<b>fastening method</b>	fixed mounting
<b>Net Weight</b>	13.1 kg

### Environmental conditions

<b>ambient temperature / during operation</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 70 °C
<b>ambient temperature / during storage</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 70 °C

### Further information

**Information on the packaging**  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
**Information for data generation and storage**  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>  
**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<https://www.siemens.com/lowvoltage/catalogs>  
**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-5AA05-1AB0>  
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-5AA05-1AB0>  
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2712-5AA05-1AB0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-5AA05-1AB0)  
**CAX-Online-Generator**  
<https://www.siemens.com/cax>  
**Tender specifications**  
<https://www.siemens.com/specifications>  
**Characteristic curves**  
[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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