

fixed-mounted sw. disconnecter frame 1600; with RTC and 4AUX Icu=55kA @ 415V, 3-pole SD100; In=800A without overload protection w/o short-circuit protection nut keeper kit No communication connection, no measurement function Motorized operating mechanism 24...30 V AC/DC incl. S21 spring energy store signaling switch With electr. and mech. calling Switch-on solenoid (CC) 24 V AC/DC without 2nd auxiliary release with 1st auxiliary release, ST Shunt release 24 V AC/DC

Model	
product brand name	SENTRON
product designation	circuit breaker
design of the product	LTS
design of the actuating element	spring actuator
type of the driving mechanism	motor drive
type of the driving mechanism / motor drive	Yes
design of the overcurrent release	SD100
General technical data	
number of poles	3
size of the circuit-breaker	1600 A
mechanical service life (switching cycles) / typical	1 000
circuit-breaker / Design	3VA2
Voltage	
insulation voltage / rated value	1 000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
protection class IP	IP20
protection class IP / on the front	IP20
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	19.3 W
Current	
operational current	
• at 40 °C / rated value	800 A
• at 45 °C / rated value	800 A
• at 50 °C / rated value	800 A
• at 55 °C / rated value	800 A
• at 60 °C / rated value	800 A
• at 65 °C / rated value	750 A
• at 70 °C / rated value	700 A
continuous current / rated value	800 A
short-time withstand current (Icw)	
• limited to 1 s / rated value	20 kA
• at AC / at 415 V / limited to 0.5 s / rated value	20 kA
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	4
Suitability	
suitability for use	circuit breaker
product component	
• trip indicator	No
• voltage trigger	Yes
• undervoltage release	No
Display and operation	
display version	Without display
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 415 V / rated value	55 kA

<ul style="list-style-type: none"> • at 500 V / rated value • at 690 V / rated value 	36 kA 25 kA
breaking capacity maximum short-circuit current (Icu) <ul style="list-style-type: none"> • at 415 V / rated value • at 440 V / rated value • at 500 V / rated value • at 690 V / rated value 	55 kA 55 kA 36 kA 25 kA

Connections

arrangement of electrical connectors / for main current circuit	Main connection on front side
type of electrical connection / for main current circuit	busbar connection

Mechanical Design

height	296 mm
width	210 mm
depth	183 mm
fastening method	fixed mounting
net weight	14 kg

Environmental conditions

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

General Product Approval	EMC	Declaration of Conformity
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[Confirmation](#)

[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[UK Declaration of Conformity](#)

[Miscellaneous](#)



other	Dangerous Good
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[Miscellaneous](#)

[Miscellaneous](#)

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Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2780-1AA03-1BA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2780-1AA03-1BA1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2780-1AA03-1BA1

CAx-Online-Generator

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

Tender specifications

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



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