



circuit breaker 3VA6 UL Frame 1000 breaking capacity class C 100 kA @ 480 V 3-pole, line protection ETU556, LSI, In=1000 A overload protection Ir=400 A ...1000 A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In neutral conductor protection optionally with ext. CT up to 160% ground fault alarm signaled via EFB300 or COM cable connection on two sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CMNAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU556
protection function of the overcurrent release	LSI-G-alarm only
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	330 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	110 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 900
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 400
electrical endurance (operating cycles) / at 480 V	4 900
electrical endurance (operating cycles) / at 600 V	3 400
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	Yes
• other measurement function	No
Net Weight	17.755 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	1 000 A
• at 45 °C	940 A
• at 50 °C	880 A
• at 55 °C	840 A
• at 60 °C	800 A
• at 65 °C	750 A
• at 70 °C	700 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C

maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	35 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 240 V	150 kA
• at 415 V	85 kA
• at 690 V	19 kA
short-circuit current making capacity (I_{cm})	
• at 240 V	440 kA
• at 415 V	242 kA
• at 690 V	74 kA

Switching capacity according to UL 489

current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	50 kA

Adjustable parameters

adjustable response value setting current (I_r) / of the L-trip / with I_{2t} characteristic	
• minimum	400 A
• maximum	1 000 A
adjustable response value delay time (t_r) / for L-tripping / with I_{2t} characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable response value setting current (I_{sd}) / of S-trip / with I_{0t} characteristic	
• minimum	600 A
• maximum	10 000 A
adjustable response value setting current (I_{sd}) / of S-trip / with I_{2t} characteristic	
• minimum	600 A
• maximum	10 000 A
adjustable response value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (t_{sd}) / for S-tripping / with I_{2t} characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (I_i) / for I-tripping	
• minimum	1 500 A
• maximum	10 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	200 A
• full-scale value	1 000 A
adjustable response value delay time (t_g) / for G-tripping / with I_{0t} characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (I_g) / for G-tripping / with I_{2t} characteristic	
• minimum	200 A
• maximum	1 000 A
adjustable response value delay time (t_g) / for G-tripping / with I_{2t} characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (I_{nN}) / for N-tripping	

• minimum	0 A
• maximum	0 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	Yes

Mechanical Design

product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
height [in]	12.91 in
height	328 mm
width [in]	8.27 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	4 x (4/0 - 500 kcmil)
width	210 mm
depth [in]	4.72 in
depth	120 mm

Connections

arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides

Auxiliary circuit

number of CO contacts / for auxiliary contacts	0
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Accessories

product extension / optional / motor drive	No
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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
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval



[Confirmation](#)



General Product Approval

EMV

Maritime application

[Miscellaneous](#)



Maritime application

other

Dangerous goods

Environment



[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

[Environmental Confirmations](#)

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=3VA6610-7JT36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6610-7JT36-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6610-7JT36-0AA0

CAX-Online-Generator

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

Tender specifications

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





