SIEMENS

Data sheet



circuit breaker 3VA6 UL frame 150 breaking capacity class C 100kA @ 480 V 3-pole, line protection ETU560, LSIG, ln=150A overload protection Ir=60A ...150A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection opt. w. ext. CT; up to 160% ground-fault protection Ig=0.2... 1 x In, tg=0.05-0.8s cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CDAE
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	ETU560
protection function of the overcurrent release	LSIG
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	29 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	9.67 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
electrical endurance (operating cycles) / at 480 V	14 000
electrical endurance (operating cycles) / at 600 V	9 800
product feature / for neutral conductors / upgradable/retrofittable / 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	2.709 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	150 A
• at 45 °C	150 A
• at 50 °C	150 A
• at 55 °C	143 A
• at 60 °C	135 A
• at 65 °C	128 A
• at 70 °C	120 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	

● at 240 V	150 kA
● at 415 V	110 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (lcs)	
● at 240 V	150 kA
● at 415 V	110 kA
● at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
● at 240 V	330 kA
● at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	
● at 240 V	200 kA
● at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	60 A
• maximum	150 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	20 s
adjustable response value setting current (lsd) / of S-trip / with l0t characteristic	
• minimum	90 A
• maximum	1 500 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum	0.05 s
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	30 A
full-scale value	150 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value delay time (tg) / for G-tripping / with l2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	0.2 A
• maximum	1.6 A
adjustable delay time / of S-trip / with l2t characteristic	0.5 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	225 A
• maximum	1 500 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	0.05
• initial value	0.05 s
• full-scale value	0.8 s
Mechanical Design	
product component	

undervoltage release	No
 voltage trigger 	No
trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	4.13 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (14 AWG - 1/0)
width	105 mm
depth [in]	3.39 in
depth	86 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
Accessories	
product extension / optional / motor drive	Yes
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 / according to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	



Confirmation





Miscellaneous



EMC Declaration of Conformity Marine / Shipping other









Confirmation

Miscellaneous

Dangerous Good Environment

<u>Transport Information</u> <u>Environmental Confirmations</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA6115-7JQ36-0AA0

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

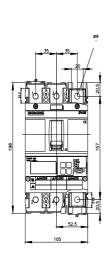
https://support.industry.siemens.com/cs/ww/en/ps/3VA6115-7JQ36-0AA0

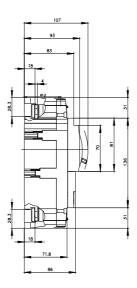
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3VA6115-7JQ36-0AA0

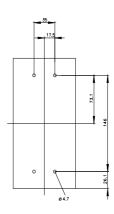
CAx-Online-Generator

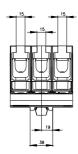
http://www.siemens.com/cax

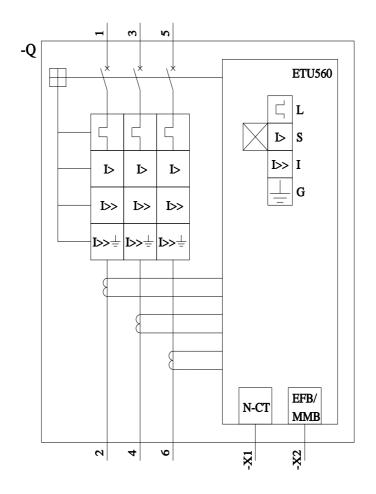
Tender specifications
http://www.siemens.com/specifications

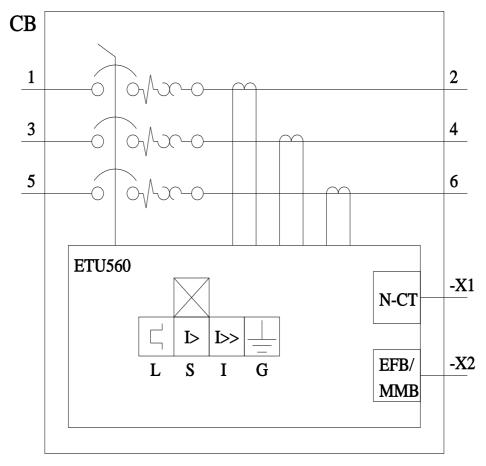












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