



circuit breaker 3VA6 UL frame 1000 breaking capacity class M 35kA @ 480 V 3-pole, line protection ETU856, LSI, In=1000A overload protection Ir=400A ...1000A short circuit protection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MMNAE
Product version	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	ETU856
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
power loss [W] / maximum	330 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	110 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 900
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 400
electrical endurance (switching cycles) / at 480 V	4 900
electrical endurance (switching cycles) / at 600 V	3 400
Neutral conductors / upgradeable/retrofitable	Yes
ground-fault monitoring version	Without
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	12.76 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	0 A
• at 45 °C	0 A
• at 50 °C	0 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA

• at 690 V	25 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V • at 415 V • at 690 V	85 kA 55 kA 19 kA
short-circuit current making capacity (Icm)	
• at 240 V • at 415 V • at 690 V	187 kA 121 kA 53 kA
Switching capacity according to UL 489	
breaking capacity current	
• at 240 V • at 480 V • at 600 V	100 kA 35 kA 25 kA
Adjustable parameters	
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _g min.	25 s
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _i min.	1 500 A
Adjustable response value current / I _i max.	10 000 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Adjustable response value current / I _g min.	200 A
Adjustable response value current / I _g max.	1 000 A
Adjustable response value current / t _g min.	0.05 s
Adjustable response value current / I _g min.	0.8 s
Mechanical Design	
height [in]	12.91 in
Height	328 mm
width [in]	8.27 in
Width	210 mm
depth [in]	4.72 in
depth	120 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
Auxiliary circuit	
product component	
• undervoltage release • voltage trigger • trip indicator	No No No
number of CO contacts / for auxiliary contacts	0
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
• during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 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
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[UK Declaration of Conformity](#)



[Miscellaneous](#)

[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=3VA6610-5KT32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6610-5KT32-0AA0>

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

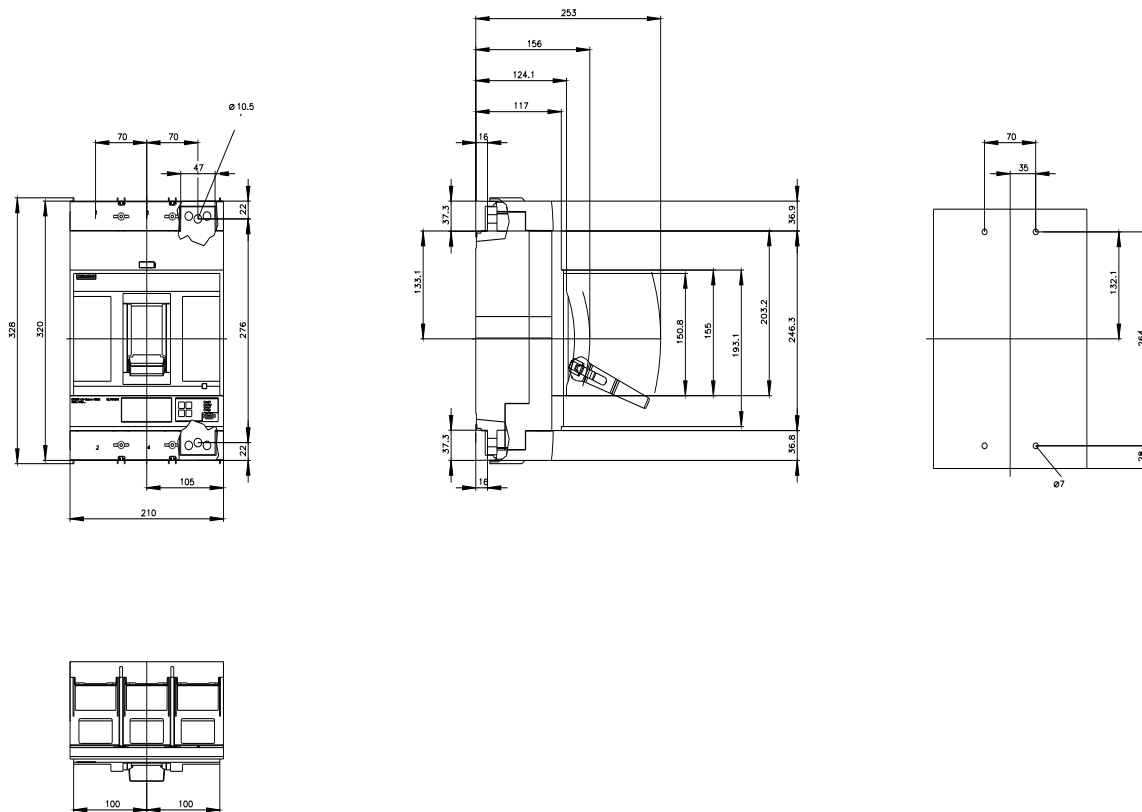
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6610-5KT32-0AA0

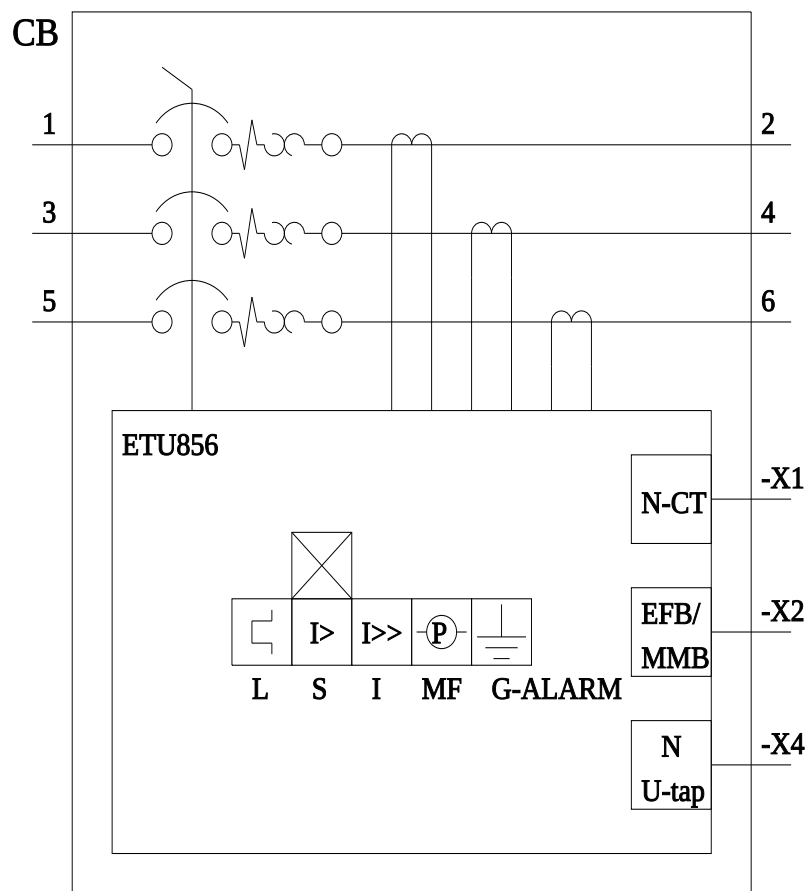
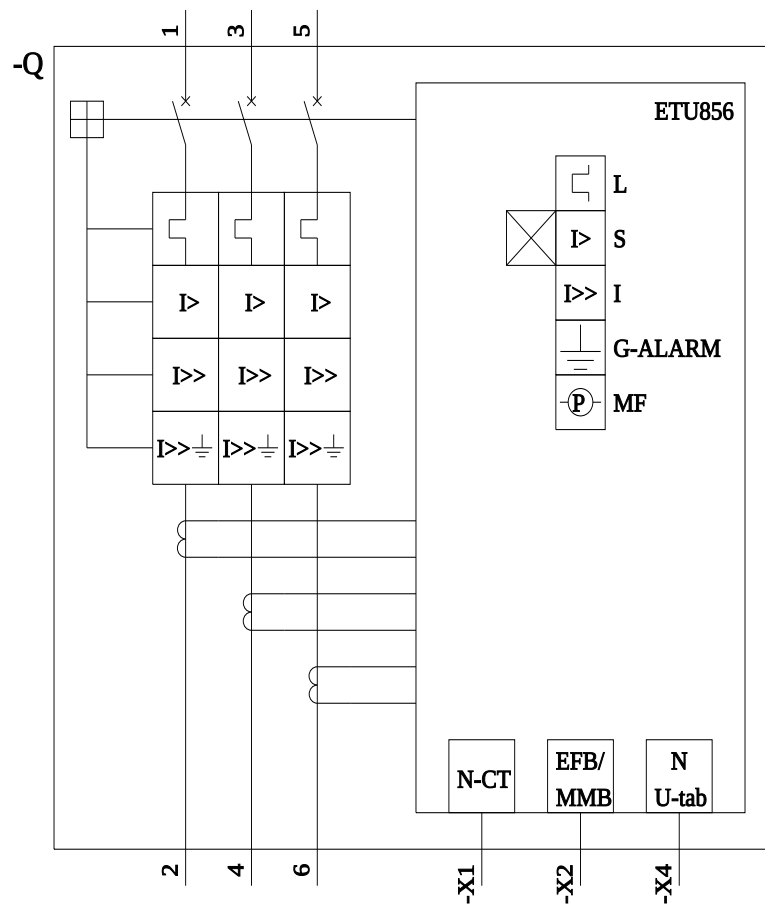
CAX-Online-Generator

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

Tender specifications

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





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