## **SIEMENS**

## **Data sheet**



Circuit breaker 3VA6 UL Frame 600 breaking capacity class H 65kA @ 480 V 3-pole, Line protection ETU830, LIG, In=400A overload protection, 100% rated Ir=160A ...400A Short-circuit protection Ii=1.5...12 x In 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	HLAE	
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	ETU830	
protection function of the overcurrent release	LIG	
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	70 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	23.33 W	
mechanical service life (operating cycles) / typical	20 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000	
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500	
electrical endurance (operating cycles) / at 480 V	4 000	
electrical endurance (operating cycles) / at 600 V	3 500	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Summation current formation L-conductor	
product function		
<ul> <li>communication function</li> </ul>	Yes	
other measurement function	Yes	
Net Weight	5.996 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	Yes	
operational current		
• at 40 °C	400 A	
• at 45 °C	400 A	
• at 50 °C	400 A	
• at 55 °C	400 A	
• at 60 °C	400 A	
• at 65 °C	400 A	
• at 70 °C	400 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	Н	
maximum short-circuit current breaking capacity (Icu)		

• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	110 kA
● at 415 V	85 kA
● at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
● at 240 V	100 kA
• at 480 V	65 kA
● at 600 V	22 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	150 A
maximum	400 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	80 A
• full-scale value	400 A
adjustable response value delay time (tg) / for G-tripping / with	
I0t characteristic	
• minimum	0.05 s
maximum	0.8 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	600 A
maximum	4 800 A
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	
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]	9.76 in
height	248 mm
width [in]	5.43 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (1 AWG - 600 kcmil)
width	138 mm
depth [in]	4.33 in
depth	110 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	100
Environmental conditions	

protection class IP / on the front	IP40	
ambient temperature		
<ul> <li>during operation / minimum</li> </ul>	-25 °C	
<ul> <li>during operation / maximum</li> </ul>	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		Declaration of Conformity



Confirmation



**Miscellaneous** 





**Declaration of Conformity** 

Marine / Shipping

other

Dangerous Good





Confirmation

**Miscellaneous** 

**Transport Information** 

## 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=3VA6440-6KM36-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6440-6KM36-2AA0

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

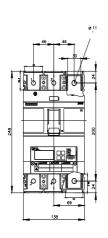
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6440-6KM36-2AA0

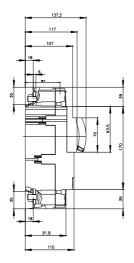
**CAx-Online-Generator** 

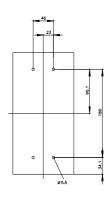
http://www.siemens.com/cax

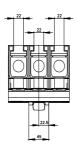
**Tender specifications** 

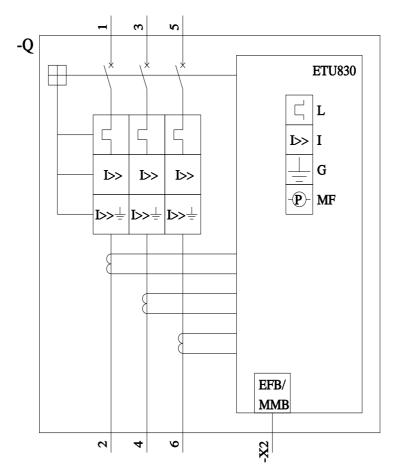
http://www.siemens.com/specifications

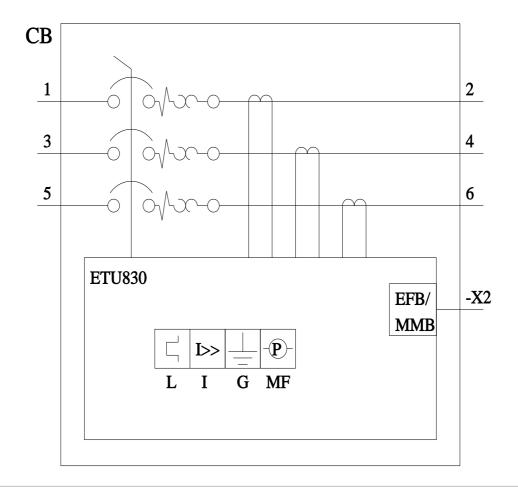












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