SIEMENS

Data sheet



circuit breaker 3VA6 UL frame 150 breaking capacity class C 100kA @ 480V 4-pole, line protection ETU830, LIG, In=40A overload protection Ir=16A...40A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.375...1 x In, tg=0.05-0.8s without connection

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	ETU830	
protection function of the overcurrent release	LIG	
number of poles	4	
General technical data		
insulation voltage / rated value	800 V	
operating voltage / at AC / rated value	690 V	
power loss [W] / maximum	2.4 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.8 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	No	
ground-fault monitoring version	Summation current formation L + N-conductor	
product function		
 communication function 	Yes	
other measurement function	Yes	
Net Weight	3.2 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
• at 40 °C	40 A	
• at 45 °C	40 A	
• at 50 °C	40 A	
• at 55 °C	40 A	
• at 60 °C	40 A	
• at 65 °C	40 A	
• at 70 °C	40 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	C	
maximum short-circuit current breaking capacity (lcu)		

• 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	15 A
• maximum	40 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
maximum	25 s
adjustable response value setting current (li) / for l-tripping	
minimum	60 A
maximum	480 A
adjustable current response value current / for G-tripping / with standard characteristic	10071
• initial value	8 A
full-scale value	40 A
adjustable response value delay time (tg) / for G-tripping / with	70.0
• minimum	0.05 s
maximum	0.8 s
adjustable response value setting current (lg) / for G-tripping / with l2t characteristic	
• minimum	8 A
• maximum	40 A
adjustable response value delay time (tg) / for G-tripping / with 12t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	15 A
• maximum	64 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	60 A
• maximum	480 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
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]	7.8 in
height	198 mm

width [in]	5.51 in	
width	140 mm	
depth [in]	3.39 in	
depth	86 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Without connection	
type of electrical connection / for main current circuit	Without	
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 	0° 08 °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

General Product Approval

EMC

Declaration of Conformity

Marine / Shipping













Marine / Shipping

other

Dangerous Good





Confirmation

Miscellaneous

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=3VA6140-7KM41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-7KM41-0AA0

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

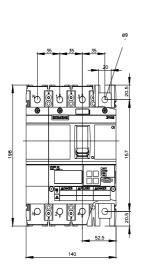
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-7KM41-0AA0

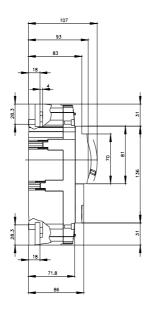
CAx-Online-Generator

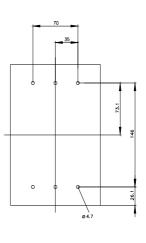
http://www.siemens.com/cax

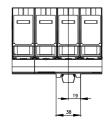
Tender specifications

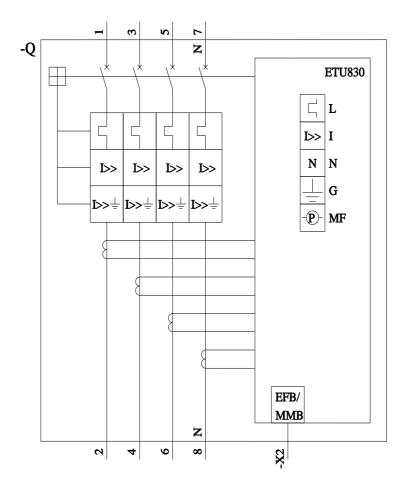
http://www.siemens.com/specifications

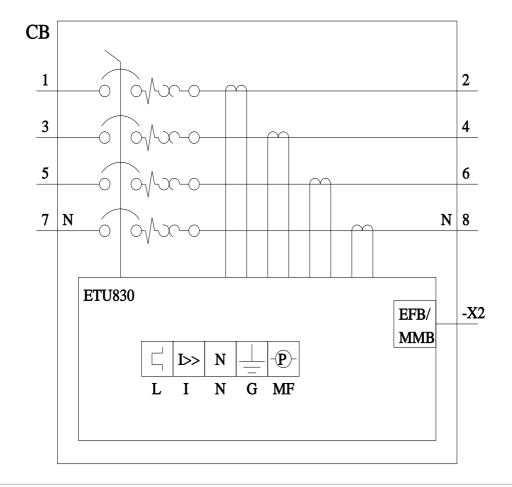












last modified: 8/14/2023 🖸



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