



circuit breaker 3VA6 UL frame 150 breaking capacity class L 150kA @ 480V 3-pole, line protection ETU860, LSIG, $I_n=40A$ overload protection $I_r=16A...40A$ short-circuit protection $I_{sd}=0.6...10 \times I_n$, $I_i=1.5...12 \times I_n$ N conductor protection optionally with external current transformer, up to 160% ground-fault protection $I_g=0.375...1 \times I_n$, $t_g=0.05-0.8s$ without connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	LDAE
Product version	System protection
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU860
protection function of the overcurrent release	LSIG
number of poles	3
General technical data	
Tension assignée d'isolement U_i	600 V
power loss [W] / maximum	2.4 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.8 W
mechanical service life (operating cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	9 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	5 000
electrical endurance (switching cycles) / at 480 V	9 000
electrical endurance (switching cycles) / at 600 V	9 000
Neutral conductors / upgradeable/retrofitable	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	Yes
• other measurement function	Yes
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
operational current	
• 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	L
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	200 kA

• at 415 V • at 690 V	150 kA 2.5 kA
breaking capacity operating short-circuit current (Ics) • at 240 V • at 415 V • at 690 V	200 kA 150 kA 2.5 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 690 V	440 kA 330 kA 3.8 kA
Switching capacity according to UL 489	
breaking capacity current • at 240 V • at 480 V • at 600 V	200 kA 150 kA 50 kA
Adjustable parameters	
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _i min.	60 A
Adjustable response value current / I _i max.	480 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	Yes
Adjustable response value current / I _g min.	15 A
Adjustable response value current / I _g max.	40 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]	7.8 in
Height	198 mm
width [in]	4.1 in
Width	105 mm
depth [in]	3.4 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 • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 80 °C
Certificates	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	



[Miscellaneous](#)

EG-Konf.



ABS

[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=3VA6140-8KQ31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-8KQ31-0AA0>

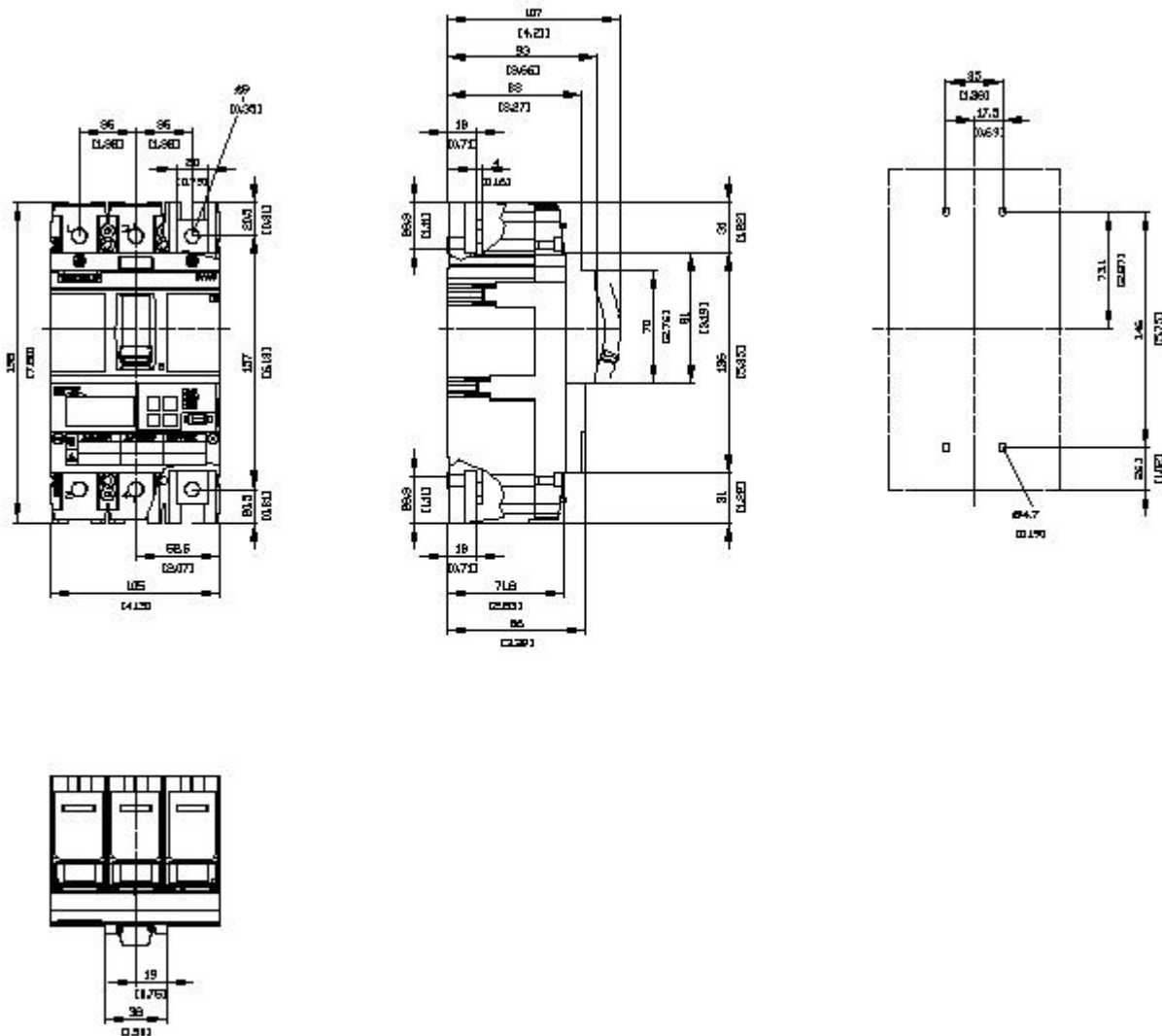
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-8KQ31-0AA0

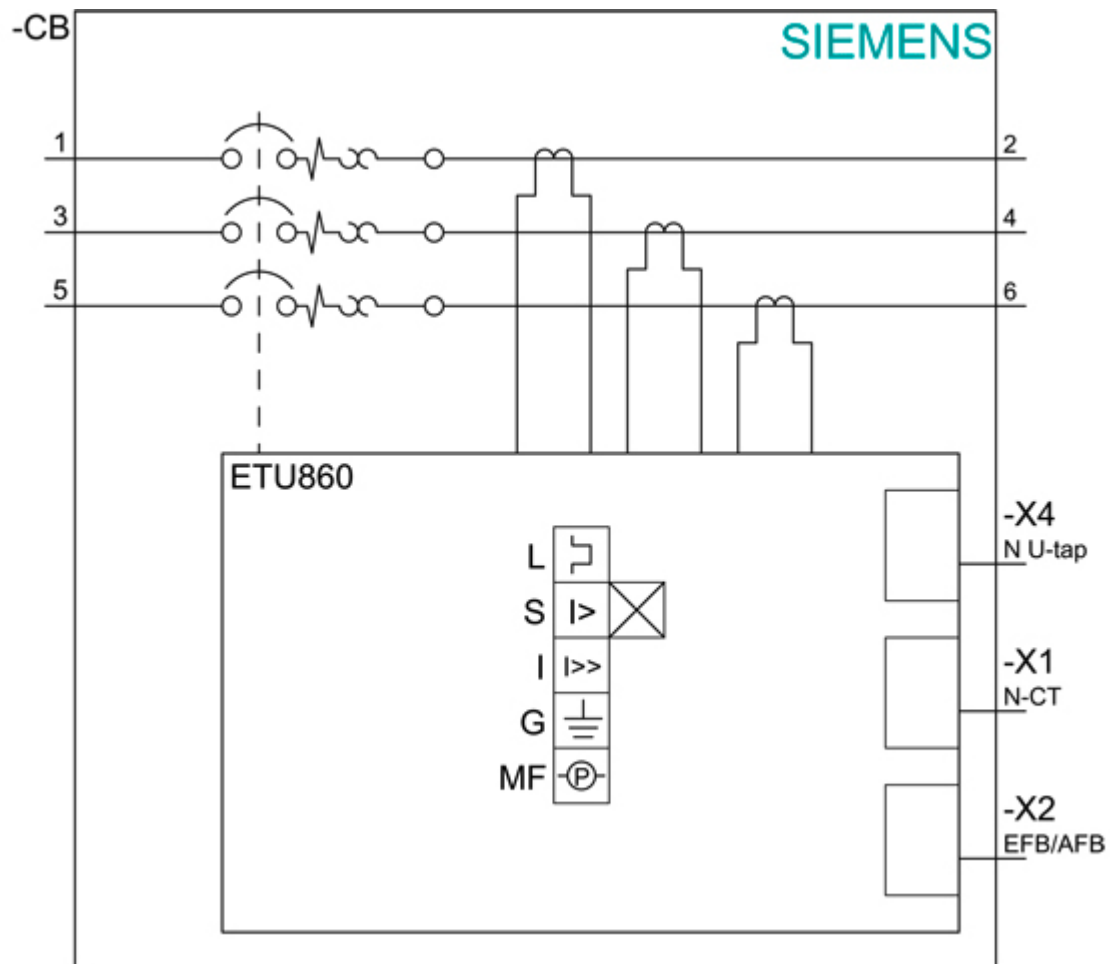
CAx-Online-Generator

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

Tender specifications

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





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