

Siemens  
EcoTech



circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35 kA @ 480 V 3-pole, line protection ETU350, LSI, In=150 A overload protection, 100% rated Ir=60 A...150 A short-circuit protection I<sub>sd</sub>=1.5...10 x I<sub>r</sub>, I<sub>i</sub>=10 x I<sub>n</sub> without connection



Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MDAE
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	ETU350
protection function of the overcurrent release	LSI
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/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	without
product function	
• communication function	No
• other measurement function	No
Net Weight	2.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	150 A
• at 45 °C	150 A
• at 50 °C	150 A
• at 55 °C	145 A
• at 60 °C	139 A
• at 65 °C	133 A
• at 70 °C	128 A

**Switching capacity according to IEC 60947**

switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (I <sub>cu</sub> )	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (I <sub>cs</sub> )	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
short-circuit current making capacity (I <sub>cm</sub> )	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA

**Switching capacity according to UL 489**

current breaking capacity	
• at 240 V	100 kA
• at 480 V	35 kA
• at 600 V	18 kA

**Adjustable parameters**

adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic	
• minimum	60 A
• maximum	150 A
adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	
• minimum	0.5 s
• maximum	17 s
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic	
• minimum	225 A
• maximum	1 500 A
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>2t</sub> characteristic	
• minimum	225 A
• maximum	1 500 A
adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic	
• minimum	0.0001 s
• maximum	0.4 s
adjustable response value setting current (I <sub>i</sub> ) / for I-tripping	
• minimum	1 500 A
• maximum	1 500 A
adjustable setting current (I <sub>nN</sub> ) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No

**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
width	105 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
<b>Accessories</b>	
product extension / optional / motor drive	Yes
<b>Environmental conditions</b>	
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
<b>Environmental footprint</b>	
Global Warming Potential [CO2 eq] / total	61.814 kg
Global Warming Potential [CO2 eq] / during manufacturing	14.6 kg
Global Warming Potential [CO2 eq] / during operation	48.9 kg
Global Warming Potential [CO2 eq] / after end of life	-2.2 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
reference code / according to IEC 81346-2	Q

**Approvals / Certificates**


**General Product Approval**







[Confirmation](#)



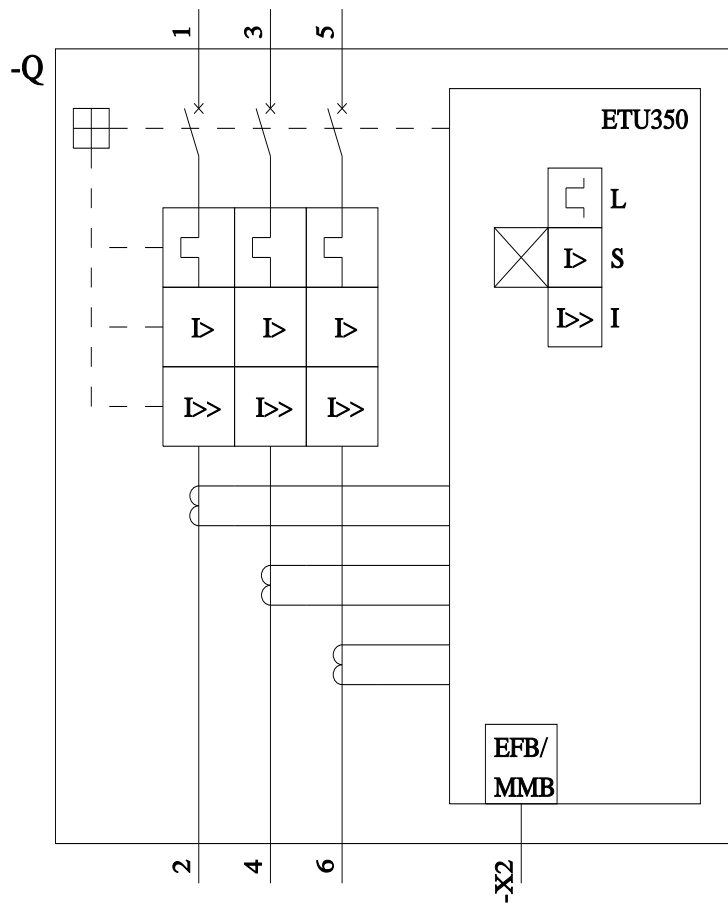
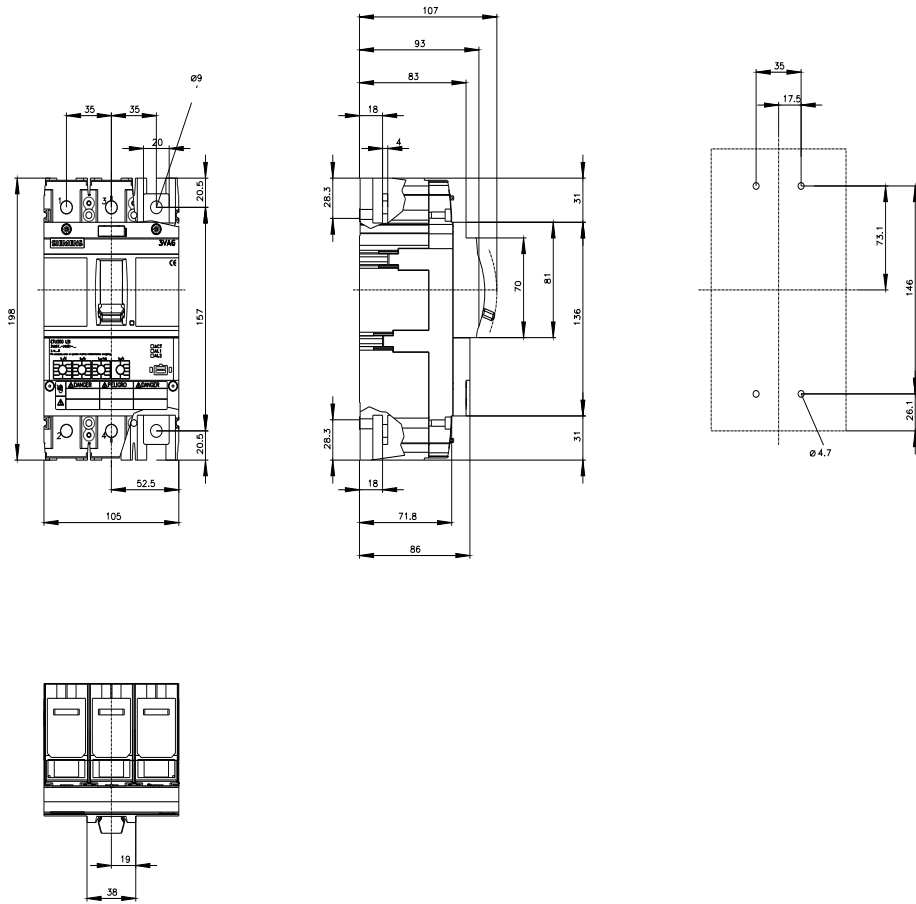

General Product Approval	EMV	Marine / Shipping
<a href="#">Miscellaneous</a>		
		
		

other	Dangerous goods	Environment
<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>
	<a href="#">Transport Information</a>	
		

**Environment**

[Environmental Confirmations](#)

- Further information**
- 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=3VA6115-5HN31-2AA0>
  - Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3VA6115-5HN31-2AA0>
  - Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA6115-5HN31-2AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6115-5HN31-2AA0)
  - CAx-Online-Generator  
<http://www.siemens.com/cax>
  - Tender specifications  
<http://www.siemens.com/specifications>





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