

Siemens  
EcoTech



circuit breaker 3VA6 UL frame 150 breaking capacity class H 65kA @ 480 V 3-pole, line protection ETU850, LSI, In=150A overload protection Ir=60A ...150A short-circuit protection Isd=0.6..10x In, li=1.5..10x In N conductor protection opt. w. ext. CT; up to 160% nut keeper kit on both sides



Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HDAE
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	ETU850
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	Yes
ground-fault monitoring version	without
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	2.645 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	150 A
• at 45 °C	150 A
• at 50 °C	150 A
• at 55 °C	143 A
• at 60 °C	135 A
• at 65 °C	128 A
• at 70 °C	120 A

**Switching capacity according to IEC 60947**

switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (I <sub>cu</sub> )	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (I <sub>cs</sub> )	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (I <sub>cm</sub> )	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	3.8 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 (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	20 s
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic	
• minimum	90 A
• maximum	1 500 A
adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>2t</sub> characteristic	
• minimum	90 A
• maximum	1 500 A
adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (I <sub>i</sub> ) / for I-tripping	
• minimum	225 A
• maximum	1 500 A
adjustable setting current (I <sub>nN</sub> ) / for N-tripping	
• minimum	0.2 A
• maximum	1.6 A
adjustable delay time / of S-trip / with I <sub>2t</sub> characteristic / full-scale value	0.5 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	225 A
• maximum	1 500 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
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	Front connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8.5 mm

### 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	80 °C

### Environmental footprint

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	other
--------------------------	-----	-------------------	-------

[Miscellaneous](#)



[Miscellaneous](#)

[Confirmation](#)

Dangerous Good	Environment
----------------	-------------

[Transport Information](#)



Siemens EcoTech



[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=3VA6115-6KP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6115-6KP32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA6115-6KP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6115-6KP32-0AA0)

CAX-Online-Generator

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

Tender specifications

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