Data sheet

3VA6140-6JP36-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class H 65kA @ 480 V 3-pole, Line protection ETU550, LSI, In=40A overload protection, 100% rated Ir=16A ...40A Short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection optionally with external CT; up to 160% cable connection 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	ETU550
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	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	Yes
ground-fault monitoring version	without
product function	
• communication function	Yes
other measurement function	No
Net Weight	2.46 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
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	Н
maximum short-circuit current breaking capacity (Icu)	

* at 240 V	-10401/	440 1-4
# 1890 V 2.5 kA		
operating short-circuit current breaking capacity (cs) 110 kA		
* *12-00 V		2.5 KA
4.415 V		
### 1600 V ### 1415 V #### 1415 V ##### 1415 V ##### 1415 V ##### 1415 V ###################################	• at 240 V	
a ct 240 V	• at 415 V	85 kA
# 1240 V	• at 690 V	2.5 kA
414 15 V 38 IA	short-circuit current making capacity (Icm)	
• 0.0 8.0 kg	• at 240 V	242 kA
Switching capacity according to UL 459 current breaking capacity	• at 415 V	187 kA
100 kA	• at 690 V	3.8 kA
ear 1240 V 100 kA	Switching capacity according to UL 489	
. at 480 V	current breaking capacity	
al (600 V 22 kA Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic • minimum • maximum	• at 240 V	100 kA
Adjustable parameters adjustable response value setting current (tr) / of the L-trip / with 12t characteristic iminimum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic iminimum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic iminimum adjustable response value setting current (tsd) / of S-trip / with 10t characteristic iminimum adjustable response value delay time (trd) / for S-tripping / with 10t characteristic iminimum adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic iminimum adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic iminimum 0.05 s adjustable setting current (inN) / for N-tripping / with 12t characteristic iminimum 0.375 A iminimum 0.480 A delay time / d S-trip / with 12t characteristic of distable current response value current / of instantaneous short-circuit trip init iminimum 480 A emaximum 480 A emaximum 480 A emaximum 480 A emaximum Adjustable OFF; 40% to 160% product function / grounding protection No Nechanical Design product component undervoltage release voltage tripger in dicator No No No No No No No No No	• at 480 V	65 kA
adjustable response value setting current (in/) of the L-trip / with 2th characteristic maximum 40 A 40 A	• at 600 V	22 kA
Iz characteristic minimum 16 A A A A A A A A A A	Adjustable parameters	
Iz characteristic minimum 16 A A A A A A A A A A		
maximum adjustable response value delay time (tr) / for L-tripping / with I2t characteristic minimum maximum 25 s adjustable response value setting current (lsd) / of S-trip / with I0t characteristic minimum maximum maximum 24 A minimum maximum Mo A adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic minimum maximum Mo A dou A dou A dou A dou B diustable response value delay time (tsd) / for S-tripping / with I0t characteristic minimum Mo A maximum Mo A dou S diustable response value delay time (tsd) / for S-tripping / with I0t characteristic minimum Mo A diustable response value delay time (tsd) / for S-tripping / with I0t characteristic minimum Mo A diustable setting current (inN) / for N-tripping minimum Mo A maximum Mo A dayustable delay time / of S-trip / with I2t characteristic adjustable delay time / of S-trip / with I2t characteristic Adjust		
adjustable response value delay time (tr) / for L-tripping / with 121 characteristic	• minimum	16 A
characteristic iminimum	• maximum	40 A
adjustable response value setting current (lsd) / of S-trip / with lot characteristic minimum maximum adjustable response value delay time (tsd) / for S-tripping / with lot characteristic minimum maximum neximum n		
adjustable response value setting current (lsd) / of S-trip / with 10t characteristic	• minimum	0.5 s
adjustable response value setting current (lsd) / of S-trip / with 10t characteristic	• maximum	25 s
maximum adjustable response value delay time (tsd) / for S-tripping / with lot characteristic minimum		
maximum adjustable response value delay time (tsd) / for S-tripping / with lot characteristic minimum	• minimum	24 A
adjustable response value delay time (tsd) / for S-tripping / with (0t characteristic		
maximum adjustable response value delay time (tsd) / for S-tripping / with izt characteristic	adjustable response value delay time (tsd) / for S-tripping / with	
adjustable response value delay time (tsd) / for S-tripping / with		0.05 s
adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic • minimum adjustable setting current (InN) / for N-tripping • minimum • maximum adjustable delay time / of S-trip / with 12t characteristic adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum 480 A design of the N-conductor protection product function / grounding protection No Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] 7.8 in height [in] 7.8 in height [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] depth [in] 8.6 mm Connections arrangement of electrical connectors / for main current circuit Front connection		
adjustable setting current (InN) / for N-tripping	adjustable response value delay time (tsd) / for S-tripping / with	
adjustable setting current (InN) / for N-tripping	• minimum	0.05 s
 minimum maximum maximum adjustable delay time / of S-trip / with l2t characteristic adjustable current response value current / of instantaneous short-circuit trip unit minimum maximum maximum design of the N-conductor protection product function / grounding protection Mo Mechanical Design product component undervoltage release voltage trigger voltage trigger ho height [in] 7.8 in height [in] width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] 4.15 mm depth [in] 3.39 in depth [in] depth [in] 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection Front connection	adjustable setting current (InN) / for N-tripping	
maximum adjustable delay time / of S-trip / with l2t characteristic adjustable current response value current / of instantaneous short-circuit trip unit		0.375 A
adjustable delay time / of S-trip / with 12t characteristic adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [in] height [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit Front connection	• maximum	1.6 A
adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height 198 mm width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit Front connection		
 minimum maximum 480 A design of the N-conductor protection product function / grounding protection No Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection 	adjustable current response value current / of instantaneous	
maximum design of the N-conductor protection product function / grounding protection No Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] design of the N-conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth [in] depth depth depth depth depth arrangement of electrical connectors / for main current circuit ### A80 A ### A80 A ### A80 A ### A80 A ### A90 X to 160% No No No **No **	•	60 A
design of the N-conductor protection product function / grounding protection Mechanical Design product component		
product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] vidth [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] 3.39 in depth 6 mm Connections arrangement of electrical connectors / for main current circuit Front connection		
Mechanical Design product component • undervoltage release • voltage trigger No • trip indicator No height [in] 7.8 in height [in] 4.13 in width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded 1 x (14 AWG 1/0) width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	·	
product component • undervoltage release • voltage trigger • trip indicator height [in] height vidth [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width to smm depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit Front connection	· · · · · · · · · · · · · · · · · · ·	
undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit Front connection		
 voltage trigger trip indicator height [in] height height in type of connectable conductor cross-sections / of the round conductor terminal / stranded width width in 1 x (14 AWG 1/0) conductor terminal / stranded width depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	•	No
● trip indicator height [in] 7.8 in height 198 mm width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit Front connection	-	
height [in] height 198 mm width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 6 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection		
height 198 mm width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	·	
width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection		
type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	· ·	
conductor terminal / stranded width 105 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection		
depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	conductor terminal / stranded	
depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front connection	width	105 mm
Connections arrangement of electrical connectors / for main current circuit Front connection	depth [in]	3.39 in
arrangement of electrical connectors / for main current circuit Front connection	depth	86 mm
·	Connections	
type of electrical connection / for main current circuit	arrangement of electrical connectors / for main current circuit	Front connection
type of diconidar confidence in the main current circuit circuit circuitar conductor terminal on both suces	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	
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
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



Declaration of Conformity

Marine / Shipping

other

Dangerous Good







Miscellaneous

Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3VA6140-6JP36-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-6JP36-2AA0

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

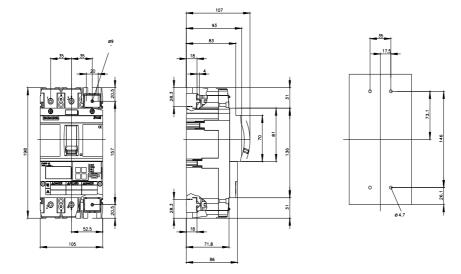
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-6JP36-2AA0

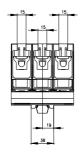
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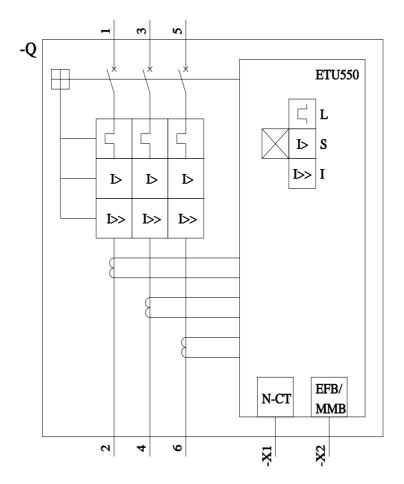
http://www.siemens.com/cax

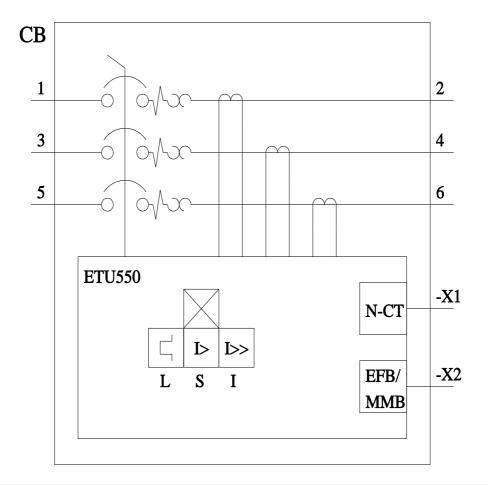
Tender specifications

http://www.siemens.com/specifications









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