3VA6140-5JP36-2AA0

## **Data sheet**



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 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	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	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	
<ul> <li>communication function</li> </ul>	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	M
maximum short-circuit current breaking capacity (lcu)	

		2-14
	• at 240 V	85 kA
Operating short direct furnish current breaking capacity (ics)     • 1		
### 1240 V		2.5 kA
e1415 V   25 kA   25		
a 1890 \		
short-court current making capacity (lcm)  • 1240 V  • 1415 V  • 1	• at 415 V	
137 KA	● at 690 V	2.5 kA
all 415 V   3.8 kA	short-circuit current making capacity (Icm)	
Switching sepacity according to UL-459   Switching sepacity seconding to UL-459   all 240 V	• at 240 V	187 kA
Switching capacity according to UL 489  current breaking capacity	● at 415 V	121 kA
current breaking capacity  at 240 V  at 480 V  at 480 V  at 800 V  adjustable parameters  adjustable response value setting current (kr) / of the L-trip / with 12t characteristic  minimum  maximum  adjustable response value delay time (kr) / for L-tripping / with 12t characteristic  minimum  adjustable response value setting current (ks) / of S-trip / with 12t characteristic  minimum  adjustable response value delay time (ks) / of S-trip / with 10t characteristic  minimum  maximum  adjustable response value delay time (ks) / for S-tripping / with 10t characteristic  minimum  maximum  adjustable response value delay time (ks) / for S-tripping / with 10t characteristic  minimum  maximum  adjustable response value delay time (ks) / for S-tripping / with 12t characteristic  minimum  adjustable setting current (inN) / for N-tripping  minimum  maximum  adjustable delay time (for S-trip / with 12t characteristic  adjustable current response value current / of instantaneous short-cricott trip unit  minimum  maximum  design of the N-conductor protection  maximum  design of the N-conductor protection  maximum  design of the N-conductor protection  modustable response value current / of instantaneous short-cricott trip unit  minimum  nous of the N-conductor protection  modustable current response value current / of instantaneous short-cricott trip unit  minimum  nous of the N-conductor protection  modustable of the N-conductor protection  No  Mechanical Design  product dunction / grounding protection  No  Mechanical Design  product dunction / grounding protection  No  No  nous of the N-conductor protection  No  No  nous of the N-conductor protection  No  Mechanical Design  product component  nous of the N-conductor protection  No  No  nous of the N-conductor protection  No  Mechanical Design  product component  nous of the N-conductor protection  No  No  nous of the N-conductor protection  No  No  nous of the N-conductor protection  No  No  nous of the N-conductor protection  No  No	• at 690 V	3.8 kA
	Switching capacity according to UL 489	
	current breaking capacity	
Adjustable response value setting current (ir) / of the L-trip / with Izt characteristic  - minimum - maximum - max	• at 240 V	100 kA
adjustable response value setting current (ir) / of the L-trip / with L2t characteristic  in minimum  inmimum	• at 480 V	35 kA
adjustable response value setting current (In) / of the L-trip / with Izt characteristic	● at 600 V	18 kA
16 A   A   A   A   A   A   A   A   A   A	Adjustable parameters	
16 A   A   A   A   A   A   A   A   A   A		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum maximum adjustable response value setting current (lsd) / of S-trip / with 10t characteristic minimum maximum adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic minimum maximum adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic minimum maximum adjustable setting current (lnN) / for N-tripping / with 12t characteristic minimum maximum adjustable setting current (lnN) / for N-tripping / with 12t characteristic minimum amaximum amax		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum  maximum  adjustable response value setting current (lsd) / of S-trip / with 10t characteristic  minimum  maximum  adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic  minimum  maximum  adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic  minimum  maximum  adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic  minimum  maximum  adjustable setting current (lnN) / for N-tripping / with 12t characteristic  minimum  maximum  adjustable setting current (lnN) / for N-tripping  minimum	• minimum	16 A
characteristic	• maximum	40 A
adjustable response value setting current (isd) / of S-trip / with 10t characteristic  minimum maximum		
adjustable response value setting current (lsd) / of S-trip / with (l0t characteristic	• minimum	0.5 s
adjustable response value setting current (lsd) / of S-trip / with (l0t characteristic		
maximum     adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic     minimum		
maximum     adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic     minimum	• minimum	24 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic  • minimum • maximum  0.05 s  adjustable response value delay time (tsd) / for S-tripping / with l2t characteristic  • minimum  0.05 s  adjustable setting current (lnN) / for N-tripping • minimum  0.375 A  • maximum  1.6 A  adjustable delay time / of S-trip / with l2t characteristic  adjustable current response value current / of instantaneous short-circuit trip unit • minimum • maximum  480 A  design of the N-conductor protection • maximum  product function / grounding protection  No  Mechanical Design  product component • undervoltage release • No • voltage trigger • trip indicator No  height [in] 7.8 in height in]  yep of connectable conductor cross-sections / of the round conductor terminal / stranded width in]  486 mm  Connections		
maximum     adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic     eminimum	adjustable response value delay time (tsd) / for S-tripping / with	
adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic  • minimum  adjustable setting current (InN) / for N-tripping  • minimum  • maximum  1.6 A  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]  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]  depth [in]  6.05 s  6.06 A  6.07 s  6.08 s  6.09 s  6.00 s  6.0		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  1.6 A  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  Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  • trip indicator  No  height [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width [in]  depth [in]  depth [in]  depth [in]  6.0.5 s  6.0 A  4.8 A  6.0 A  6		
adjustable setting current (InN) / for N-tripping	adjustable response value delay time (tsd) / for S-tripping / with	
minimum maximum maxim	• minimum	0.05 s
minimum maximum maxim	adjustable setting current (InN) / for N-tripping	
maximum     adjustable delay time / of S-trip / with 12t characteristic     adjustable current response value current / of instantaneous short-circuit trip unit		0.375 A
adjustable delay time / of S-trip / with I2t characteristic adjustable current response value current / of instantaneous short-circuit trip unit	• maximum	1.6 A
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] height width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width depth [in]  3.39 in depth  86 mm  Connections		
<ul> <li>minimum</li> <li>maximum</li> <li>480 A</li> <li>design of the N-conductor protection</li> <li>adjustable OFF; 40% to 160%</li> <li>product function / grounding protection</li> <li>No</li> <li>Mechanical Design</li> <li>product component</li> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>tip mm</li> <li>width [in]</li> <li>type of connectable conductor cross-sections / of the round conductor terminal / stranded</li> <li>width</li> <li>depth [in]</li> <li>3.39 in</li> <li>depth</li> <li>Connections</li> </ul>	adjustable current response value current / of instantaneous	
Maximum     design of the N-conductor protection     product function / grounding protection      Mechanical Design  product component     undervoltage release     voltage trigger     vitri indicator     height [in]     height [in]     desting france conductor cross-sections / of the round conductor terminal / stranded  width     depth [in]     3.39 in  depth     Connections	•	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]  height  width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width  depth [in]  3.39 in  depth  Connections		
product component  undervoltage release voltage trigger trip indicator  height [in]  height  width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width  depth [in]  3.39 in  depth  Connections	· · · · · · · · · · · · · · · · · · ·	
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  width  105 mm  depth [in]  3.39 in  depth  Connections		
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>height [in]</li> <li>width [in]</li> <li>type of connectable conductor cross-sections / of the round conductor terminal / stranded</li> <li>width</li> <li>undervoltage release</li> <li>No</li> <li>No</li> <li>No</li> <li>Height</li> <li>198 mm</li> <li>4.13 in</li> <li>1 x (14 AWG 1/0)</li> <li>conductor terminal / stranded</li> <li>width</li> <li>105 mm</li> <li>depth [in]</li> <li>depth</li> <li>86 mm</li> </ul> Connections		
voltage trigger     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	·	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	-	
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 86 mm  Connections		
height  width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width  105 mm  depth [in]  3.39 in  depth  Connections	·	
width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width  105 mm  depth [in]  3.39 in  depth  Connections		
type of connectable conductor cross-sections / of the round conductor terminal / stranded  width 105 mm  depth [in] 3.39 in  depth 86 mm  Connections	-	
conductor terminal / stranded           width         105 mm           depth [in]         3.39 in           depth         86 mm           Connections		
depth [in]         3.39 in           depth         86 mm           Connections	conductor terminal / stranded	
depth 86 mm  Connections	width	105 mm
Connections	depth [in]	3.39 in
	depth	86 mm
arrangement of electrical connectors / for main current circuit Front connection	Connections	
	arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit circular conductor terminal on both sides	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	
<ul><li>during operation / minimum</li></ul>	-25 °C
<ul><li>during operation / maximum</li></ul>	70 °C
<ul><li>during storage / minimum</li></ul>	-40 °C
<ul><li>during storage / maximum</li></ul>	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







Confirmation

**Miscellaneous** 

**Transport Information** 

## Further information

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

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

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=3VA6140-5JP36-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-5JP36-2AA0

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

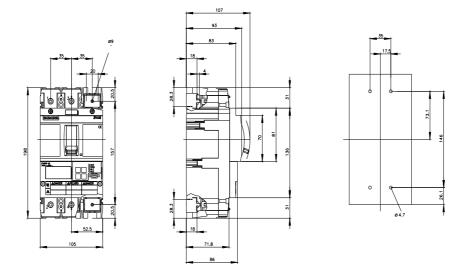
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6140-5JP36-2AA0

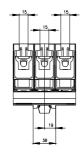
**CAx-Online-Generator** 

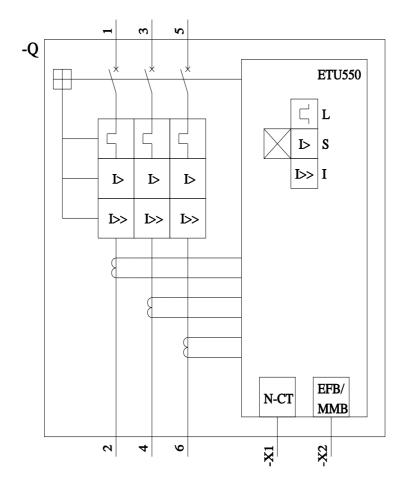
http://www.siemens.com/cax

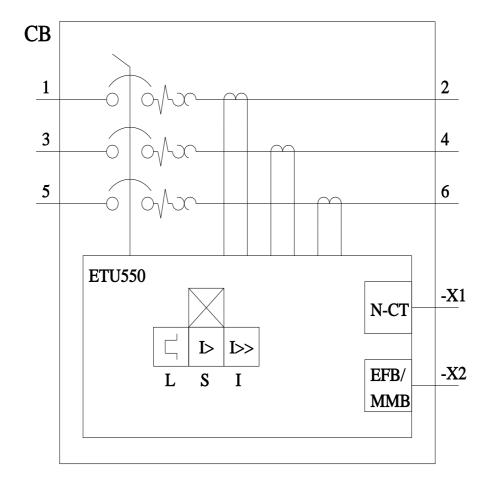
**Tender specifications** 

http://www.siemens.com/specifications









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