## Data sheet 3VA6140-7HL36-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480 V 3-pole, Line protection ETU320, LI, In=40A overload protection, 100% rated Ir=16A ...40A Short-circuit protection li=1.5...12 x In cable connection on both sides

Model		
product brand name	SENTRON	
product designation	Molded-case circuit breaker	
product designation / according to UL file	CDAE	
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	ETU320	
protection function of the overcurrent release	Ц	
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	No	
ground-fault monitoring version	without	
product function		
<ul> <li>communication function</li> </ul>	No	
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	С	
maximum short-circuit current breaking capacity (Icu)		

#   240 V	1040	45014
### ### ##############################		
operating short-circuit current breaking capacity (ics)  • at 24 50 V • at 415 V • at 6800 V • at 415 V • at 6800 V • Sis BA  Sistance  Current breaking capacity • at 220 V • at 480 V • at 500 V • at 480 V • a		
19240 V		2.5 KA
+ at 415 V		
• it 890 V short-circuit current making capacity (tern) • at 240 V • at 415 V • at 160 V 330 kA  Switching capacity according to UL 489  current breaking capacity • at 240 V • at 480 V • at 800 V •		
abort-circuit current making capacity (Icm)		
e. 12 40 V   330 kA   300 kA		2.5 KA
e at 415 V at 890 V 3.8 kA  Switching sepacity according to UL 439  Current breaking capacity  • at 240 V 200 KA  • at 800 V 35 KA  Adjustable parameters  adjustable response value setting current (ir) / of the L-trip / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value delay time (tr) / for L-tripping / with 12c channel response value current / of instantaneous short-cricuit try unit  • minimum • maximum  • maximum  product function / grounding protection  No  Mechanical Dasign  product component  • undervoltage release • voltage (trigger • voltage (trigger) • vo		
Switching sepacity according to UL 499  Current breaking capacity  • 1240 V  • 14 800 V  • 15 1000 KA  • 15 1000 K		
Switching capacity according to UL 489  current breaking capacity		
current breaking capacity  • at 240 V  • at 480 V  • at 800 V  • minimum  • maximum  • modulusable current response value current / of instantaneous short-iccult frig unit  • minimum  • minimum  • 80 A  • maximum  product function / grounding protection  No  Mechanical Dasign  product component  • undervoltage release  • voltage trigger  • voltage trigge		3.8 KA
e at 240 V at 480 V 5 at 480 V 6		
e at 480 V 35 kA 35 kA 35 kA 36 kA 3		
Adjustable response value setting current (tr) / of the L-trip / with L2t characteristic  - minimum  - maximum  - maximu		
Adjustable parameters adjustable response value setting current (tr) / of the L-trip / with IZt characteristic		
adjustable response value setting current (ir) / of the L-trip / with 12t characteristic eminimum 40 A 40		35 kA
12 characteristic   minimum   15 A   40 A		
maximum adjustable response value delay time (tr) / for L-tripping / with I2t characteristic minimum maximum 17 s adjustable current response value current / of instantaneous short-irouit fip unit maximum		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic	<ul><li>minimum</li></ul>	15 A
characteristic  minimum  maximum  maximum  minimum  minim		40 A
maximum     adjustable current response value current / of instantaneous short-circuit trip unit     minimum     maximum     maximum     maximum     product function / grounding protection     No  Mechanical Dasign  product component     undervoltage release     voltage trigger     No     trip indicator     No     leight [in]     height [in]     preserve (in the first and of the round conductor terminal / stranded     width [in]		
adjustable current response value current / of instantaneous short-circuit trip unit	• minimum	0.5 s
short-circuit trip unit  minimum  minimum  maximum  muderoltage release  mudervoltage  mu	• maximum	17 s
maximum 480 A product function / grounding protection No  Mechanical Design product component     undervoltage release No     voltage trigger No     ineight [in] 7.8 in     height [in] 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 type of conductor / for main current circuit arrangement of electrical connection / for main current circuit stype of conductor / for auxiliary circuit  number of CO contacts / for auxiliary contacts  Documental conditions  product extension / optional / motor drive Yes  Environmental conditions  protection class IP / on the front IP40 ambient temperature     during operation / maximum -25 °C     during storage / minimum -40 °C     during storage / minimum -40 °C     certificates  reference code / according to IEC 81346-2 Q     certificates of sustability / as approval for NAVAL (no combat yessels) / supplement SB  Product atability / as approval for NAVAL (no combat yessels) / supplement SB		
product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • trip indicator No height [in] height 198 mm width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth [in] depth	• minimum	60 A
Mechanical Design	maximum	480 A
product component  • undervoltage release • voltage trigger • trip indicator No 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 86 mm  Connections arrangement of electrical connectors / for main current circuit type of contection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit number of CO contacts / for auxiliary contacts  O Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front eduring operation / minimum - 25 °C eduring operation / minimum - 40 °C eduring storage / minimum - 40 °C eduring storage / minimum - 40 °C eduring storage / maximum - 40 °C - certificates reference code / according to IEC 81346-2  Certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	product function / grounding protection	No
undervoltage release voltage trigger trip indicator No height [in] height 198 mm width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width 105 mm depth 86 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions protection class IP / on the front ambient temperature during operation / maximum during operation / maximum during operation / maximum during operation / maximum during storage / minimum during storage / maximum eduring storage / sapproval for NAVAL (no combat wessels) / supplement SB  eduring storage / sapproval for NAVAL (no combat wessels) / supplement SB	Mechanical Design	
• voltage trigger • trip indicator No height [in] 7.8 in height width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] 3.39 in depth 86 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of electrical connection / for main current circuit number of CO contacts / for auxiliary contacts  Auxiliary circuit number of CO contacts / for auxiliary contacts  Accessories product extension / optional / motor drive Environmental conditions  protection class IP / on the front eluring operation / minimum -25 °C eduring operation / minimum -25 °C eduring storage / minimum -40 °C eduring storage / minimum -40 °C eduring storage / maximum -40 °C certificates reference code / according to IEC 81346-2 Certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	product component	
trip indicator  height [in] 7.8 in  height [in] 98 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 [in] 86 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit  type of electrical connection / for main current circuit  number of CO contacts / for auxiliary contacts  Auxiliary circuit number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  during operation / minimum -25 °C  during operation / minimum -40 °C eduring storage / minimum -40 °C during storage / minimum -40 °C contificates  reference code / according to IEC 81346-2  Q certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	<ul> <li>undervoltage release</li> </ul>	No
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 [in] 3.39 in depth 60 mm  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  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>voltage trigger</li> </ul>	No
height 198 mm  width [in] 4.13 in  type of connectable conductor cross-sections / of the round conductor terminal / stranded 105 mm  depth 105 mm  depth 86 mm  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  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	trip indicator	No
width [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  type of electrical connection / for main current circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  during operation / minimum  -25 °C  during operation / minimum  -40 °C  during storage / minimum  during storage / maximum  80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	height [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 from the 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 ambient temperature  • during operation / maximum -25 °C • during operation / maximum -40 °C • during storage / minimum -40 °C • during storage / maximum -40 °C	height	198 mm
conductor terminal / stranded  width	width [in]	4.13 in
depth [in] 3.39 in depth 86 mm  Connections  arrangement of electrical connectors / for main current circuit 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 • during operation / maximum • during storage / minimum • during storage / maximum  • 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		1 x (14 AWG 1/0)
depth 86 mm  Connections  arrangement of electrical connectors / for main current circuit 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  • during storage / minimum  • during storage / maximum  • during storage / saximum  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions protection class IP / on the front ambient temperature  olduring operation / minimum during operation / maximum olduring storage / minimum olduring storage / maximum olduring storag		
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  • during operation / minimum -25 °C • during operation / maximum -40 °C • during storage / minimum -40 °C • during storage / maximum -40 °C  certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	·	86 mm
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  Environmental conditions  protection class IP / on the front 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  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Connections	
Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  40 °C  • during storage / minimum  • during storage / maximum  80 °C  Cortificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	-	Front connection
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	3.	circular conductor terminal on both sides
Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  240 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Auxiliary circuit	
product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	number of CO contacts / for auxiliary contacts	0
Environmental conditions  protection class IP / on the front  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  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Accessories	
protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	product extension / optional / motor drive	Yes
ambient temperature  • during operation / minimum  • during operation / maximum  70 °C  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Environmental conditions	
<ul> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>during storage / maximum</li> <li>Certificates</li> <li>reference code / according to IEC 81346-2</li> <li>certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB</li> </ul>	protection class IP / on the front	IP40
• during operation / maximum     70 °C     • during storage / minimum     -40 °C     • during storage / maximum     80 °C  Certificates  reference code / according to IEC 81346-2     certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  Property of the company of the	ambient temperature	
• during storage / minimum     • during storage / maximum     80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  Vessels) / supplement SB	during operation / minimum	-25 °C
during storage / maximum      80 °C  Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  Ves	during operation / maximum	70 °C
Certificates  reference code / according to IEC 81346-2  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  Q	during storage / minimum	-40 °C
reference code / according to IEC 81346-2 Q certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  Q		80 °C
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Certificates	
vessels) / supplement SB	reference code / according to IEC 81346-2	Q
General Product Approval		Yes
	General Product Approval	











**Declaration of Conformity** 

Marine / Shipping

other

Dangerous Good







Miscellaneous

Confirmation

**Transport Information** 

#### Further information

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

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-7HL36-2AA0

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

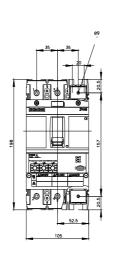
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6140-7HL36-2AA0

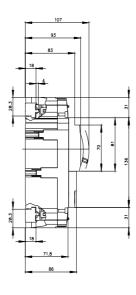
CAx-Online-Generator

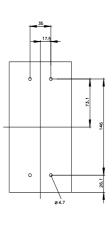
http://www.siemens.com/cax

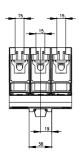
**Tender specifications** 

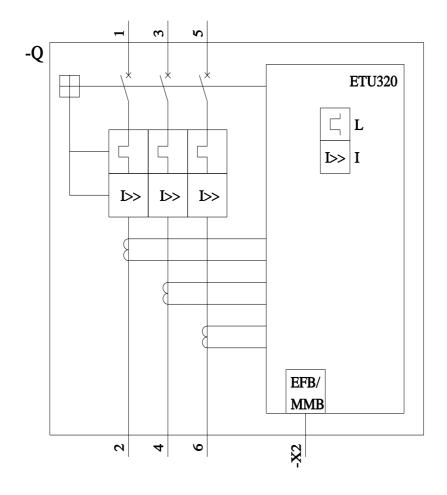
http://www.siemens.com/specifications

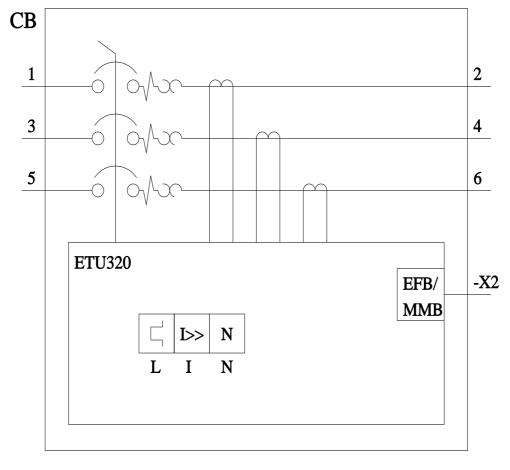












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