3VA6140-5KP36-0AA0

Data sheet



circuit breaker 3VA6 UL frame 150 breaking capacity class M 35kA @ 480 V 3-pole, line protection ETU850, LSI, In=40A overload protection Ir=16A ...40A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection opt. w. ext. 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	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	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	Yes
Net Weight	2.66 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
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 moduration component undervollage release voltage trigger No voltage trigger No vip indicator No height [in] 1x 8 in height yee 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 Gepth [in] depth [in]	• 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 adjustable setting current (lnN) / for N-tripping / with 12t characteristic minimum amaximum ama		
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 width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] 4.13 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width [in] 4.5 mm 4.6 mm 6.7 mm 6.		
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 8.05 s 8.07 s 8.07 s 8.08 s 8.09 s 8.00 s 8.0		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		
 minimum maximum 480 A design of the N-conductor protection adjustable OFF; 40% to 160% product function / grounding protection No Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] tip mm width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] 3.39 in depth Connections 	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		
 undervoltage release voltage trigger trip indicator height [in] height [in] width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width undervoltage release No No No Height 198 mm 4.13 in 1 x (14 AWG 1/0) conductor terminal / stranded width 105 mm depth [in] depth 86 mm 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	
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







<u>Miscellaneous</u>



EMC Declaration of Conformity Marine / Shipping









Miscellaneous

other

Confirmation

Dangerous Good

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=3VA6140-5KP36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-5KP36-0AA0

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

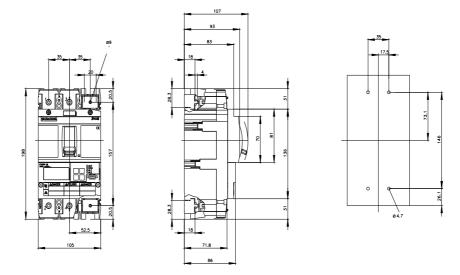
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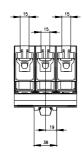
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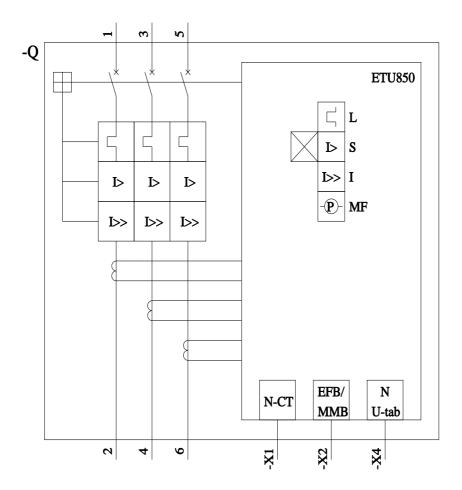
http://www.siemens.com/cax

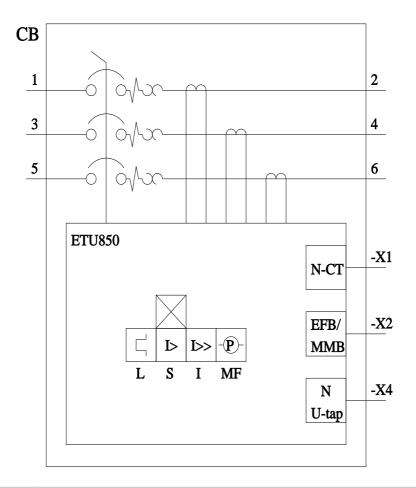
Tender specifications

http://www.siemens.com/specifications









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