3VA2140-6JP42-0AA0

Data sheet



circuit breaker 3VA2 IEC frame 160 breaking capacity class H Icu=85kA @ 415V 4-pole, line protection ETU550, LSI, In=40A overload protection Ir=16A...40A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection adjustable (OFF, up to 160%) nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU550
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	1.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.53 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
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
 communication function 	Yes
 other measurement function 	No
Net Weight	2.94 kg
Current	
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	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (lcs)	

** 1445 V		
### ### ### ### ### ### ### ### ### ##	• at 240 V	110 kA
### ### ### ### ### ### ### ### ### ##	• at 415 V	85 kA
### ### ##############################	• at 440 V	85 kA
short-crust current making capacity (icm) a 242 LA a 415 V a 415 V a 415 V a 187 NA a 187 NA All 400 V 121 NA a 1800 V 221 NA All parameters product feature / for L-ripping / can be switched cnorelf adjustable response value setting current (if) / of the L-trip / with 121 characteristic a minimum a maximum b maximum a maximum a maximum a maximum a maximum b maximum a maxim	● at 500 V	55 kA
e at 240 V 187 kA 1815 V 187 kA 187 kA 187 kA 1815 V 187 kA 1815 V 187 kA 121 kA 121 kA 121 kA 122 kA 2 180 kV 121 kA 121 kA 122 kA 2 180 kV 122	• at 690 V	2.5 kA
e at 45 V 187 KA	short-circuit current making capacity (Icm)	
e 1440 V 187	• at 240 V	242 kA
e at 500 V 3.7 kA Adjustable parameters product feature / for L-tripping / can be switched on/off adjustable response value setting current ((ir) / of the L-trip / with 12t characteristsc	● at 415 V	187 kA
### at 590 V ### adjustable parameters product feature / for L-tripping / can be switched on/off ### adjustable response value setting current (ir) / of the L-trip / with 15 characteristic ### minimum ### adjustable response value delay time (ir) / for L-tripping / with 12 characteristic ### minimum ### adjustable response value setting current (lad) / of S-trip / with 12 characteristic #### minimum ### adjustable response value setting current (lad) / of S-trip / with 12 characteristic #### minimum #### adjustable response value setting current (lad) / of S-trip / with 12 characteristic #### minimum #### adjustable response value setting current (lad) / of S-trip / with 12 characteristic ##### minimum #### adjustable response value delay time (lad) / for S-tripping / with 101 characteristic ###################################	• at 440 V	187 kA
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product feature / for L-tripping / can be switched on/off adjustable response value setting current (ir) / of the L-trip / with (2t chainecteriolic	● at 690 V	3.7 kA
adjustable response value setting current (ir) / of the L-trip / with 2t characteristic maximum 40 A 40 A	Adjustable parameters	
16 A A A A A A A A A A	product feature / for L-tripping / can be switched on/off	No
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Initimum		25 s
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adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic • minimum • maximum 0.05 s adjustable response value setting current (li) / for I-tripping • minimum • maximum 480 A adjustable setting current (lnN) / for N-tripping • minimum • maximum 16 A • maximum 66 A • maximum 67 A • maximum 68 A • maximum 68 A • maximum 69 A • Mechanical Design product function / grounding protection No Mechanical Design product component • undervoltage release • voltage trigger • No • trip indicator No height [in] 7.13 in height in] width 181 mm depth in] depth 140 mm depth [in] 3.39 in depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connector / minimum type of connectable conductor cross-sections / for flat-bar terminal connector / minimum type of connectable conductor cross-sections / for flat-bar terminal connector / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar		
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adjustable setting current (InN) / for N-tripping	• minimum	60 A
minimum	• maximum	480 A
maximum design of the N-conductor protection product function / grounding protection No Mechanical Design product component	adjustable setting current (InN) / for N-tripping	
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product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of connectable conductor cross-sections / for flat-bar	• maximum	64 A
Mechanical Design product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 7.13 in height 181 mm width [in] 5.51 in width 140 mm depth [in] 3.39 in depth 86 mm Connections arrangement of electrical connectors / for main current circuit Front terminal type of electrical connection / for main current circuit on both sides nut keeper kit 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 25 x 8 mm	design of the N-conductor protection	adjustable OFF; 40% to 160%
product component • undervoltage release • voltage trigger • trip indicator height [in] height in] width [in] width depth [in] depth arrangement of electrical connectors / for main current circuit type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar type of connectable conductor cross-sections / for flat-bar	product function / grounding protection	No
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type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar 25 x 8 mm		
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar 25 x 8 mm	· ·	on both sides nut keeper kit
		13 x 1 mm
		25 x 8 mm

design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) $$	tin	
design of the surface / of the connections / on the bottom of the switch $(N,2,4,6)$	tin	
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	
General Product Approval		EMC

Confirmation





Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping







CCS / China Classification Society **Miscellaneous**

other

Confirmation

other

Dangerous Good

Environment

Miscellaneous

Transport Information

Environmental Confirmations

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2140-6JP42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-6JP42-0AA0

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

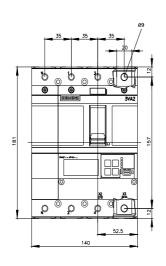
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-6JP42-0AA0

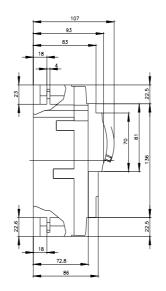
CAx-Online-Generator

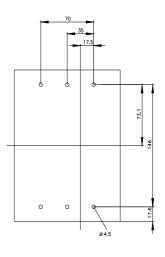
http://www.siemens.com/cax

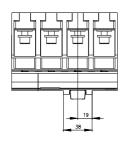
Tender specifications

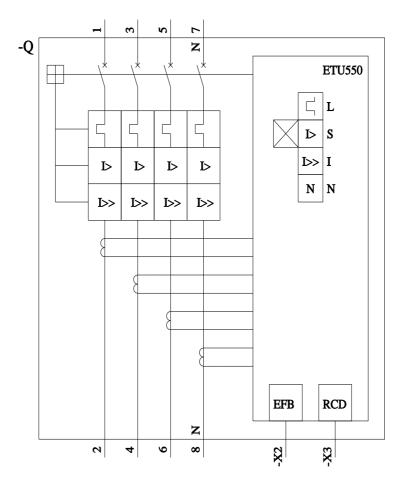
http://www.siemens.com/specifications



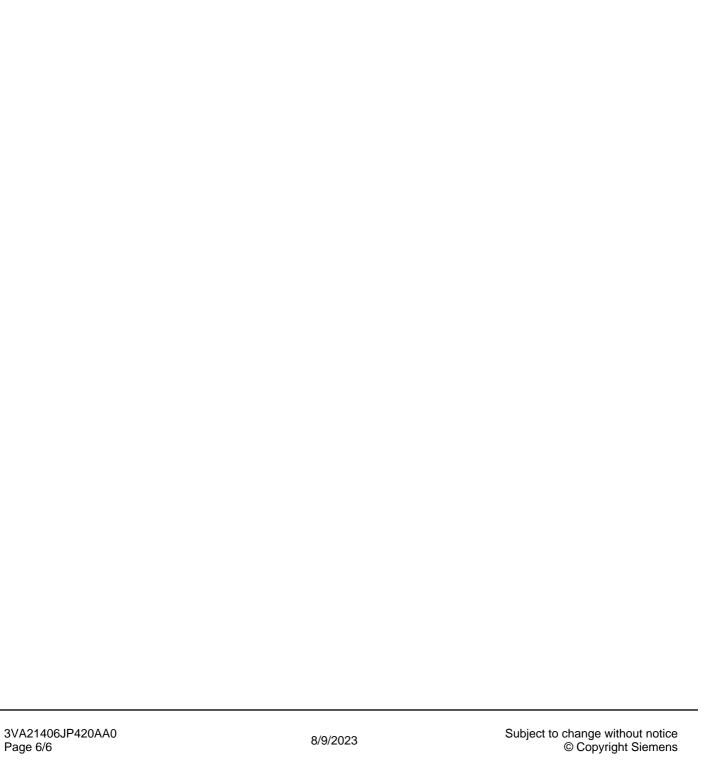








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Mouser Electronics

Authorized Distributor

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Siemens:

3VA21406JP420AA0