Data sheet

3VA6610-5KL46-0AA0



circuit breaker 3VA6 UL frame 1000 breaking capacity class M 35kA @ 480 V 4-pole, line protection ETU820, Ll, In=1000A overload protection Ir=400A ...1000A short circuit protection Ii=1,5...10 x In

| lodel | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MMNAE |
| 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 | ETU820 |
| protection function of the overcurrent release | LI |
| number of poles | 4 |
| Seneral technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 330 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 110 W |
| mechanical service life (operating cycles) / typical | 10 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 4 900 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 3 400 |
| electrical endurance (operating cycles) / at 480 V | 4 900 |
| electrical endurance (operating cycles) / at 600 V | 3 400 |
| 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 | Yes |
| Net Weight | 23.298 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 0 A |
| • at 45 °C | 0 A |
| • at 50 °C | 0 A |
| witching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | M |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 85 kA |
| • at 415 V | 55 kA |
| • at 690 V | 25 kA |
| operating short-circuit current breaking capacity (Ics) | |

| • at 240 V | 85 kA |
|---|---|
| • at 240 V • at 415 V | 55 kA |
| • at 415 V • at 690 V | 55 KA 19 kA |
| | 19 KA |
| short-circuit current making capacity (lcm) | 40714 |
| • at 240 V | 187 kA |
| • at 415 V | 121 kA |
| • at 690 V | 53 kA |
| Switching capacity according to UL 489 | |
| current breaking capacity | |
| ● at 240 V | 100 kA |
| ● at 480 V | 35 kA |
| ● at 600 V | 25 kA |
| Adjustable parameters | |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic | |
| • minimum | 400 A |
| • maximum | 1 000 A |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic | |
| • minimum | 0.5 s |
| • maximum | 25 s |
| adjustable response value setting current (li) / for I-tripping | |
| • minimum | 1 500 A |
| • maximum | 10 000 A |
| adjustable absolute value setting current (InN) / for N-tripping | |
| • minimum | 200 A |
| • maximum | 1 000 A |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| • minimum | 1 500 A |
| • maximum | 10 000 A |
| | |
| design of the N-conductor protection | adjustable OFF: 20% to 100% |
| design of the N-conductor protection | adjustable OFF; 20% to 100% |
| product function / grounding protection | adjustable OFF; 20% to 100% No |
| product function / grounding protection Mechanical Design | |
| product function / grounding protection Mechanical Design product component | No |
| product function / grounding protection Mechanical Design product component • undervoltage release | No No |
| product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger | No No No |
| product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator | No No No No |
| product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] | No No No No No 12.91 in |
| product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height | No No No No 12.91 in 328 mm |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in |
| product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height | No No No No 12.91 in 328 mm |
| 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 | No No No No 12.91 in 328 mm 11.02 in |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in |
| product function / grounding protection Mechanical Design product component | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm |
| product function / grounding protection Mechanical Design product component | No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories | No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm |
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| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides |
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| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front | No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 | No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides 0 No |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides 0 No IP40 -25 °C |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 • during operation / maximum | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides 0 No IP40 -25 °C 70 °C |
| 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] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 storage / minimum • during storage / minimum | No No No No 12.91 in 328 mm 11.02 in 4 x (4/0 - 500 kcmil) 280 mm 4.72 in 120 mm Front connection circular conductor terminal on both sides 0 No IP40 -25 °C 70 °C -40 °C |

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



EMC

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other







Miscellaneous

Confirmation

Miscellaneous

Dangerous Good

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6610-5KL46-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6610-5KL46-0AA0

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

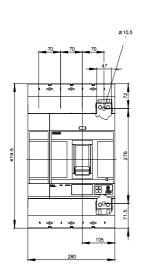
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6610-5KL46-0AA0

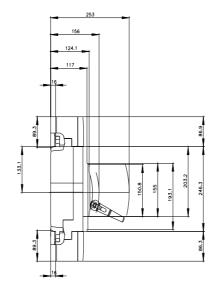
CAx-Online-Generator

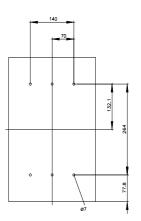
http://www.siemens.com/cax

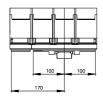
Tender specifications

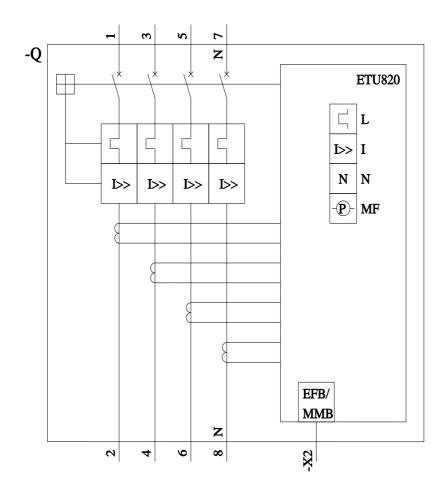
http://www.siemens.com/specifications

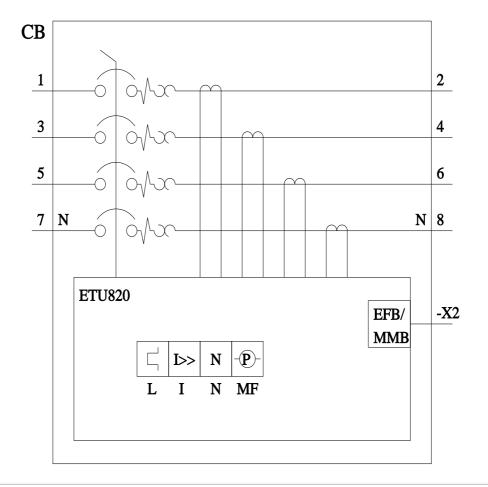












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