SIEMENS

Data sheet

3VA6110-7KM36-2AA0

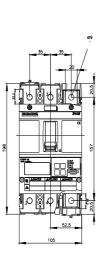


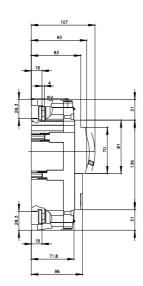
Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480 V 3pole, Line protection ETU830, LIG, In=100A overload protection, 100% rated Ir=40A ...100A Short-circuit protection Ii=1.5...12 x In Ground-fault protection Ig=0.2... 1 x In, tg=0.05-0.8s cable connection on both sides

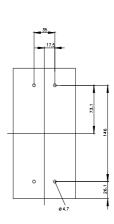
| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | CDAE |
| design of the product | System protection |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| design of the overcurrent release | ETU830 |
| protection function of the overcurrent release | LIG |
| 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 | 13 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 4.33 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 | Summation current formation L-conductor |
| product function | |
| communication function | Yes |
| other measurement function | Yes |
| Net Weight | 2.509 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | Yes |
| operational current | |
| ● at 40 °C | 100 A |
| ● at 45 °C | 100 A |
| ● at 50 °C | 100 A |
| ● at 55 °C | 100 A |
| • at 60 °C | 100 A |
| ● at 65 °C | 100 A |
| • at 70 °C | 100 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | С |
| maximum short-circuit current breaking capacity (Icu) | |

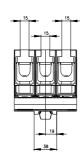
| • at 240 V | 150 kA |
|---|---|
| • at 415 V | 110 kA |
| • at 690 V | 2.5 kA |
| operating short-circuit current breaking capacity (lcs) | |
| • at 240 V | 150 kA |
| • at 415 V | 110 kA |
| • at 690 V | 2.5 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 330 kA |
| • at 415 V | 242 kA |
| • at 690 V | 3.8 kA |
| Switching capacity according to UL 489 | |
| current breaking capacity | |
| • at 240 V | 200 kA |
| • at 480 V | 100 kA |
| • at 600 V | 35 kA |
| Adjustable parameters | |
| adjustable response value setting current (Ir) / of the L-trip / with | |
| I2t characteristic | |
| • minimum | 40 A |
| • maximum | 100 A |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic | |
| • minimum | 0.5 s |
| • maximum | 25 s |
| adjustable current response value current / for G-tripping / with standard characteristic | |
| initial value | 20 A |
| • full-scale value | 100 A |
| adjustable response value delay time (tg) / for G-tripping / with l0t characteristic | |
| • minimum | 0.05 s |
| • maximum | 0.8 s |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| • minimum | 150 A |
| • maximum | 1 200 A |
| product function / grounding protection | Yes |
| total break time / for G-tripping / with standard characteristic | |
| initial value | 0.05 s |
| full-scale value | 0.8 s |
| Mechanical Design | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| 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 | 1 x (14 AWG - 1/0) |
| width | 105 mm |
| depth [in] | 3.39 in |
| 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 | |
| | |

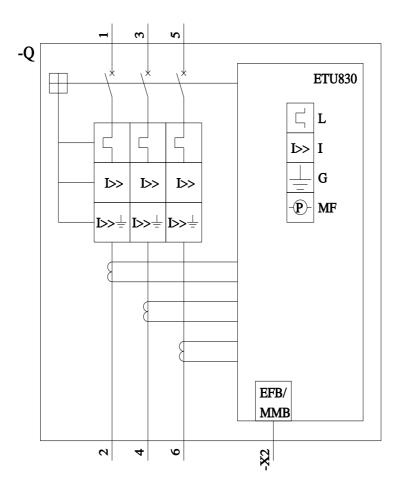
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|---|--|--|---|----------------------------|----------------------|--|
| protection class IP / on th | e front | IP40 | J | | | |
| ambient temperature | | | | | | |
| during operation / minimum | | -25 | °C | | | |
| during operation / maximum | | 70 ° | С | | | |
| during storage / minimum | | -40 | °C | | | |
| during storage / maximum | | 80 ° | С | | | |
| ertificates | · · | | | | | |
| reference code / accordin | in to IEC 81346-2 | Q | | | | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | | | Yes | | | |
| General Product Appro | | | | | | |
| PP | | | | | | |
| | <u>Confirmation</u> | | (ŲL) u | <u>Miscellaneous</u> | EHC | |
| | | | other | | Dangerous Good | |
| Declaration of Conform | | Marine / Shipping | Confirmation | Miscellaneous | Transport Informatic | |
| Declaration of Conform | UK CA | Marine / Shipping | | <u>Miscellaneous</u> | Transport Informatio | |
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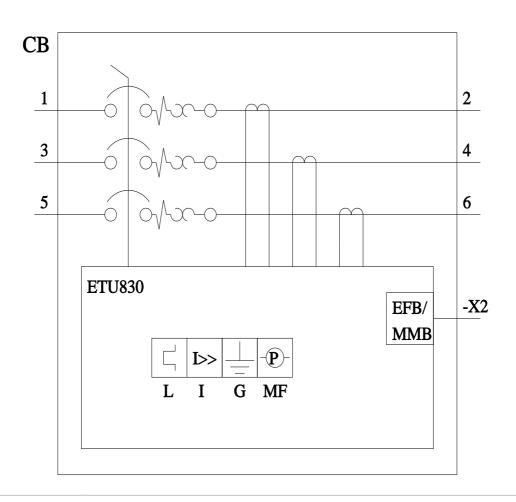




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