SIEMENS

Data sheet

3VA6440-7KP41-0AA0

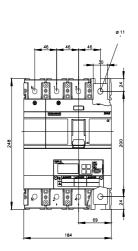


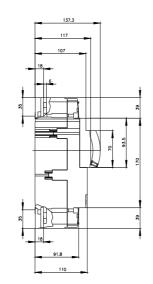
circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 4pole, line protection ETU850, LSI, In=400A overload protection Ir=160A...400A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection adjustable (OFF, up to 160%) without connection

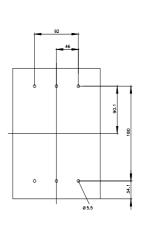
| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | CLAE |
| design of the product | System protection |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| design of the overcurrent release | ETU850 |
| protection function of the overcurrent release | LSI |
| number of poles | 4 |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 70 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 23.33 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 4 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 3 500 |
| electrical endurance (operating cycles) / at 480 V | 4 000 |
| electrical endurance (operating cycles) / at 600 V | 3 500 |
| 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 | 6.9 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 400 A |
| ● at 45 °C | 400 A |
| ● at 50 °C | 400 A |
| ● at 55 °C | 400 A |
| ● at 60 °C | 400 A |
| ● at 65 °C | 400 A |
| • at 70 °C | 400 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | С |
| maximum short-circuit current breaking capacity (lcu) | |

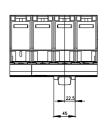
| • at 240 V | 150 kA |
|---|-----------------------------|
| • at 415 V | 110 kA |
| • at 690 V | 6 kA |
| operating short-circuit current breaking capacity (lcs) | |
| • at 240 V | 150 kA |
| • at 415 V | 110 kA |
| • at 690 V | 6 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 330 kA |
| • at 415 V | 242 kA |
| • at 690 V | 9 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 l2t characteristic | |
| minimum | 160 A |
| • maximum | 400 A |
| adjustable response value delay time (tr) / for L-tripping / with I2t | 400 A |
| characteristic | |
| • minimum | 0.5 s |
| • maximum | 25 s |
| adjustable response value setting current (Isd) / of S-trip / with I0t characteristic | |
| • minimum | 240 A |
| • maximum | 4 000 A |
| adjustable response value setting current (Isd) / of S-trip / with I2t characteristic | |
| • minimum | 240 A |
| • maximum | 4 000 A |
| adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic | |
| • minimum | 0.05 s |
| • maximum | 0.5 s |
| adjustable response value delay time (tsd) / for S-tripping / with | |
| I2t characteristic | |
| • minimum | 0.05 s |
| • maximum | 0.5 s |
| adjustable response value setting current (li) / for I-tripping | |
| • minimum | 600 A |
| • maximum | 4 800 A |
| adjustable setting current (InN) / for N-tripping | |
| • minimum | 80 A |
| • maximum | 600 A |
| adjustable delay time / of S-trip / with I2t characteristic | 0.5 s |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| minimum | 600 A |
| • maximum | 4 800 A |
| design of the N-conductor protection | adjustable OFF; 20% to 150% |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| trip indicator | No |
| · · · · · · · · · · · · · · · · · · · | 9.76 in |
| height [in] height | 248 mm |
| · · · · · · · · · · · · · · · · · · · | 7.24 in |
| width [in]width | 184 mm |
| WIGUI | TO THE |

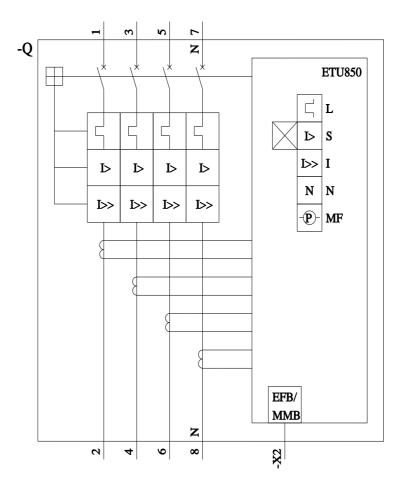
| depth [in] | | | 4.33 in | | |
|--|--|--|--|-------------------|--|
| depth | | | 110 mm | | |
| Connections | | | | | |
| arrangement of electric | al connectors / for main c | urrent circuit | Without connection | | |
| type of electrical conne | ection / for main current cir | cuit | Without | | |
| Auxiliary circuit | | | | | |
| | s / for auxiliary contacts | | 0 | | |
| Accessories | | | • | | |
| | ional / motor driva | | Voo | | |
| product extension / opt | | | Yes | | |
| Environmental condition | | | | | |
| 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 / accore | ding to IEC 81346-2 | | Q | | |
| certificate of suitability | / as approval for NAVAL (I | no combat | Yes | | |
| vessels) / supplement s | SB | | | | |
| General Product App | roval | | | | |
| | | | | | |
| (m) | Confirmation | ŝ | ŝ | \sim | Miscellaneous |
| (\mathbf{m}) | | (VL) | (VL) | <u>D'E</u> | |
| | | \sim | $\mathbf{v}_{\mathbf{r}}$ | VDE | |
| | | | | | |
| | | | | | |
| General Product Ap- | | | | | |
| proval | EMC | Declaration of | Conformity | Marine / Shipping | |
| | | | | | |
| | | | | | |
| | A | ~ ~ | LIK. | | A CONTRACTOR |
| 101 | Ŕ | CE | UK | | |
| EAC | | CE | UK | | |
| EAC | RCM | CE EG-Konf. | UK CA | ABS | BUREAU |
| EAC | RCM | CE EG-Konf. | UK CA | ABS | B U REAU VERITAS |
| EAC | RCM | | UK CA | ABS | B U R E A U VER ITAS |
| ERIC Marine / Shipping | RCM | CEG-Konf. | UK CA | ABS | DUREAU VERITAS Dangerous Good |
| ERIC Marine / Shipping | RCM | other | | | Ū |
| Marine / Shipping | RCM | | | ABS | Dangerous Good Transport Information |
| Marine / Shipping | RCM | other | | | Ū |
| Marine / Shipping | RCM | other | | | Ū |
| ĴÅ DNV | RCM | other | | | Ŭ |
| Ĵ.Å. | RCM | other | | | Ū |
| | RCM | other | | | Ū |
| Further information | RMRS | other <u>Miscellaneou</u> | | | Ū |
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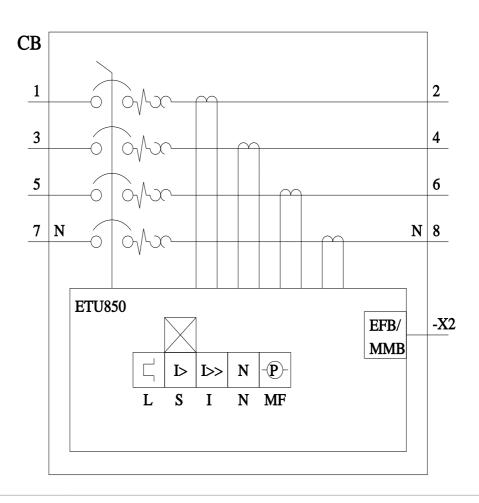












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