



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 480V 3-pole, Line protection ETU556, LSI, In=40A overload protection, 100% rated Ir=16A...40A Short-circuit protection Isd=0.6..10x In, li=1.5..12x In N conductor protection optionally with external CT, up to 160% Ground-fault alarm message via EFB300 or COM without connection

| 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 | ETU556 |
| protection function of the overcurrent release | LSI-G-alarm only |
| 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/retrofitable / short-circuit and overload proof | Yes |
| ground-fault monitoring version | Summation current formation L-conductor |
| product function | |
| • communication function | Yes |
| • other measurement function | No |
| Net Weight | 2.3 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | Yes |
| 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 (Icu) | |

| | |
|--|----------------------------|
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 690 V | 85 kA 55 kA 2.5 kA |
| operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 690 V | 85 kA 55 kA 2.5 kA |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 690 V | 187 kA 121 kA 3.8 kA |

Switching capacity according to UL 489

| | |
|--|--------------------------|
| current breaking capacity <ul style="list-style-type: none"> • at 240 V • at 480 V • at 600 V | 100 kA 35 kA 18 kA |
|--|--------------------------|

Adjustable parameters

| | |
|--|-----------------|
| adjustable response value setting current (I _r) / of the L-trip / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 16 A 40 A |
| adjustable response value delay time (t _r) / for L-tripping / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 0.5 s 25 s |
| adjustable response value setting current (I _{sd}) / of S-trip / with I ₀ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 24 A 400 A |
| adjustable response value setting current (I _{sd}) / of S-trip / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 24 A 400 A |
| adjustable response value delay time (t _{sd}) / for S-tripping / with I ₀ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 0.05 s 0.5 s |
| adjustable response value delay time (t _{sd}) / for S-tripping / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 0.05 s 0.5 s |
| adjustable response value setting current (I _i) / for I-tripping <ul style="list-style-type: none"> • minimum • maximum | 60 A 480 A |
| adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none"> • initial value • full-scale value | 15 A 40 A |
| adjustable response value delay time (t _g) / for G-tripping / with I ₀ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 0.05 s 0.8 s |
| adjustable response value setting current (I _g) / for G-tripping / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 15 A 40 A |
| adjustable response value delay time (t _g) / for G-tripping / with I ₂ t characteristic <ul style="list-style-type: none"> • minimum • maximum | 0.05 s 0.8 s |
| adjustable setting current (I _n) / for N-tripping <ul style="list-style-type: none"> • minimum • maximum | 0 A 0 A |
| adjustable delay time / of S-trip / with I ₂ t characteristic | 0.5 s |

| | |
|--|-----------------------------|
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| • minimum | 60 A |
| • maximum | 480 A |
| design of the N-conductor protection | adjustable OFF; 40% to 160% |
| 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 |
| width | 105 mm |
| depth [in] | 3.39 in |
| depth | 86 mm |

Connections

| | |
|---|--------------------|
| arrangement of electrical connectors / for main current circuit | Without connection |
| type of electrical connection / for main current circuit | Without |

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](#)



[Miscellaneous](#)



| EMC | Declaration of Conformity | Marine / Shipping | other |
|-----|---------------------------|-------------------|-------|
|-----|---------------------------|-------------------|-------|



[Miscellaneous](#)

[Confirmation](#)

| other | Dangerous Good |
|-------|----------------|
|-------|----------------|

[Miscellaneous](#)

[Transport Information](#)

Further information

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

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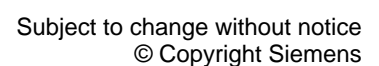
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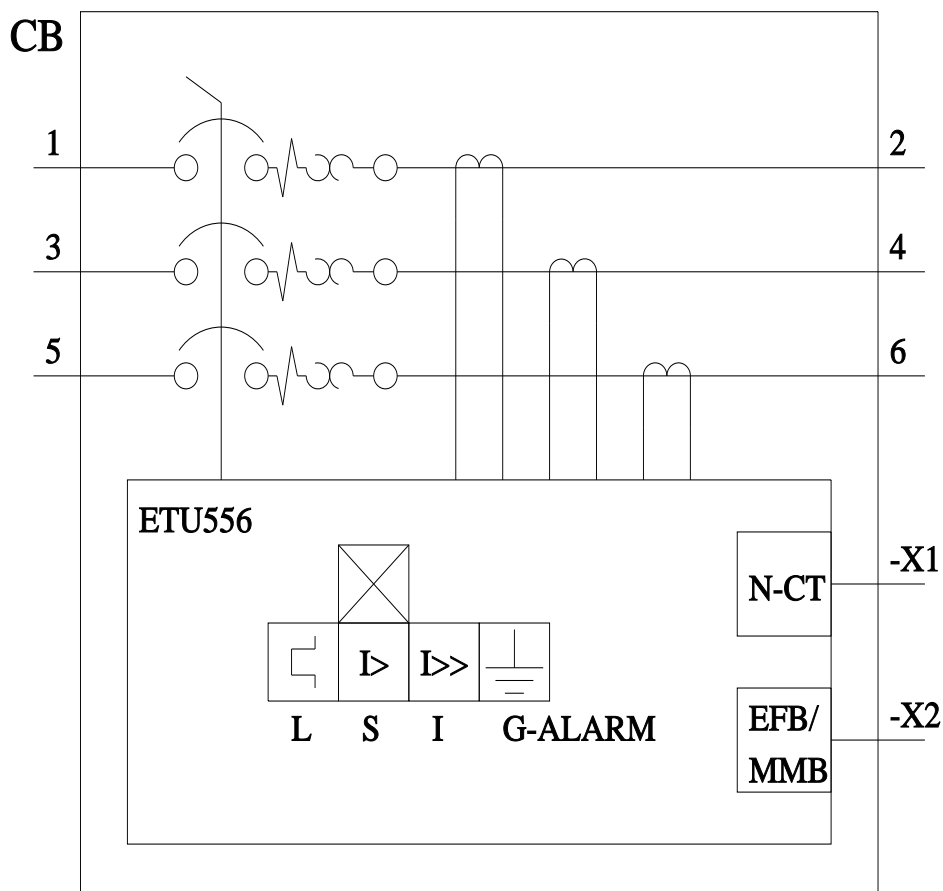
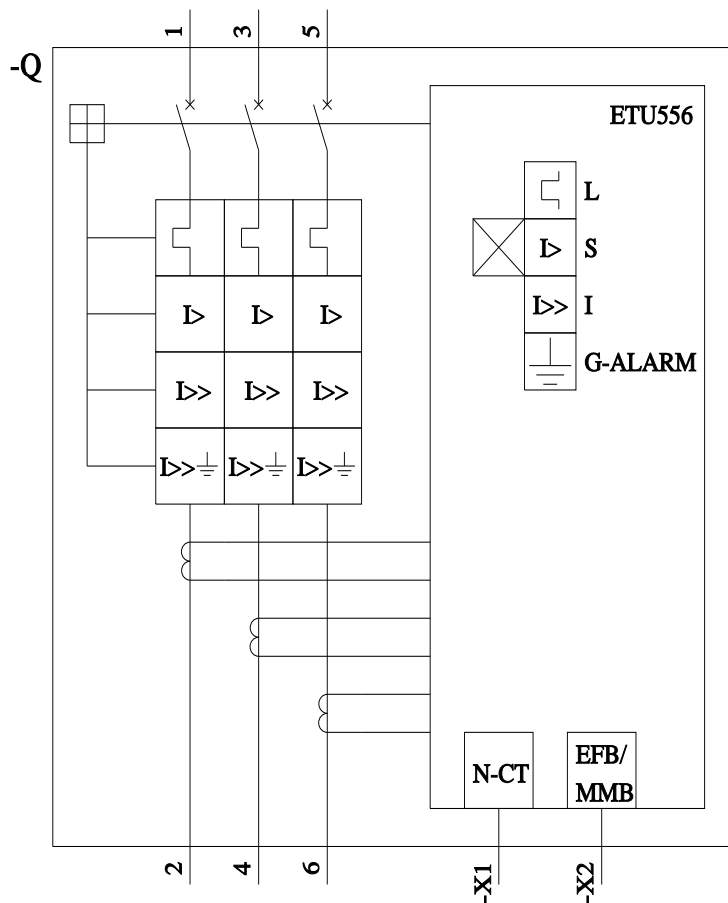
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