



circuit breaker 3VA2 IEC Frame 400 breaking capacity class E $I_{cu}=200 \text{ kA @ 415 V}$ 4-pole, line protection ETU330, LIG, $I_n=400 \text{ A}$ overload protection $I_r=160 \text{ A}$... 400 A short-circuit protection $I_i=1.5 \dots 12 \times I_n$ neutral conductor protection adjustable (OFF, 50%, 100%) ground-fault protection $I_g=0.2 \dots 1 \times I_n$, $t_g=0.1/0.3 \text{ s}$ 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 | ETU330 |
| protection function of the overcurrent release | LIG |
| 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 | 96 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 32 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 6 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 4 200 |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No |
| ground-fault monitoring version | Summation current formation L + N conductor |
| product function | |
| • communication function | No |
| • other measurement function | No |
| Net Weight | 6.35 kg |
| Current | |
| operational current | |
| • at 40 °C | 400 A |
| • at 45 °C | 400 A |
| • at 50 °C | 400 A |
| • at 55 °C | 385 A |
| • at 60 °C | 370 A |
| • at 65 °C | 355 A |
| • at 70 °C | 340 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | E |
| maximum short-circuit current breaking capacity (I_{cu}) | |
| • at 415 V | 200 kA |

| | |
|--|------------------|
| <ul style="list-style-type: none"> at 690 V | 85 kA |
| operating short-circuit current breaking capacity (Ics) | |
| <ul style="list-style-type: none"> at 415 V at 690 V | 200 kA 65 kA |
| short-circuit current making capacity (Icm) | |
| <ul style="list-style-type: none"> at 415 V at 690 V | 440 kA 187 kA |

Adjustable parameters

| | |
|---|---------------------------|
| product feature / for L-tripping / can be switched on/off | No |
| adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic | |
| <ul style="list-style-type: none"> minimum maximum | 160 A 400 A |
| adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic | |
| <ul style="list-style-type: none"> minimum maximum | 0.5 s 17 s |
| adjustable response value setting current (I _i) / for I-tripping | |
| <ul style="list-style-type: none"> minimum maximum | 600 A 4 800 A |
| adjustable current response value current / for G-tripping / with standard characteristic | |
| <ul style="list-style-type: none"> initial value full-scale value | 80 A 400 A |
| adjustable response value delay time (t _g) / for G-tripping / with I _{0t} characteristic | |
| <ul style="list-style-type: none"> minimum maximum | 0.1 s 0.3 s |
| adjustable setting current (I _{nN}) / for N-tripping | |
| <ul style="list-style-type: none"> minimum maximum | 80 A 400 A |
| design of the N-conductor protection | adjustable OFF; 50%; 100% |
| product function / grounding protection | Yes |

Mechanical Design

| | |
|---|----------------|
| product component | |
| <ul style="list-style-type: none"> undervoltage release voltage trigger trip indicator | No No No |
| height [in] | 9.76 in |
| height | 248 mm |
| width [in] | 7.24 in |
| width | 184 mm |
| depth [in] | 4.33 in |
| depth | 110 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 | 20 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 mm |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) | silver |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | silver |

Auxiliary circuit

| | |
|--|---|
| number of CO contacts / for auxiliary contacts | 0 |
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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 |

| Environmental footprint | |
|--|-----------------|
| global warming potential [CO2 eq] / total | 495 kg |
| global warming potential [CO2 eq] / during manufacturing | 28.7 kg |
| global warming potential [CO2 eq] / during operation | 470 kg |
| global warming potential [CO2 eq] / after end of life | -4.07 kg |
| Siemens Eco Profile (SEP) | Siemens EcoTech |
| reference code / according to IEC 81346-2 | Q |

Approvals / Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)



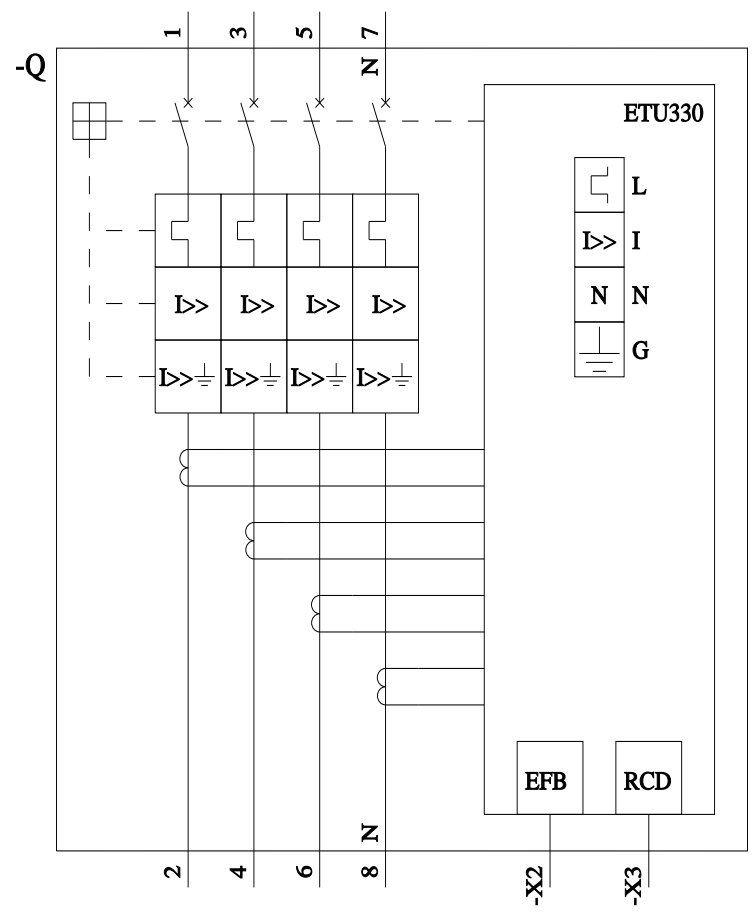
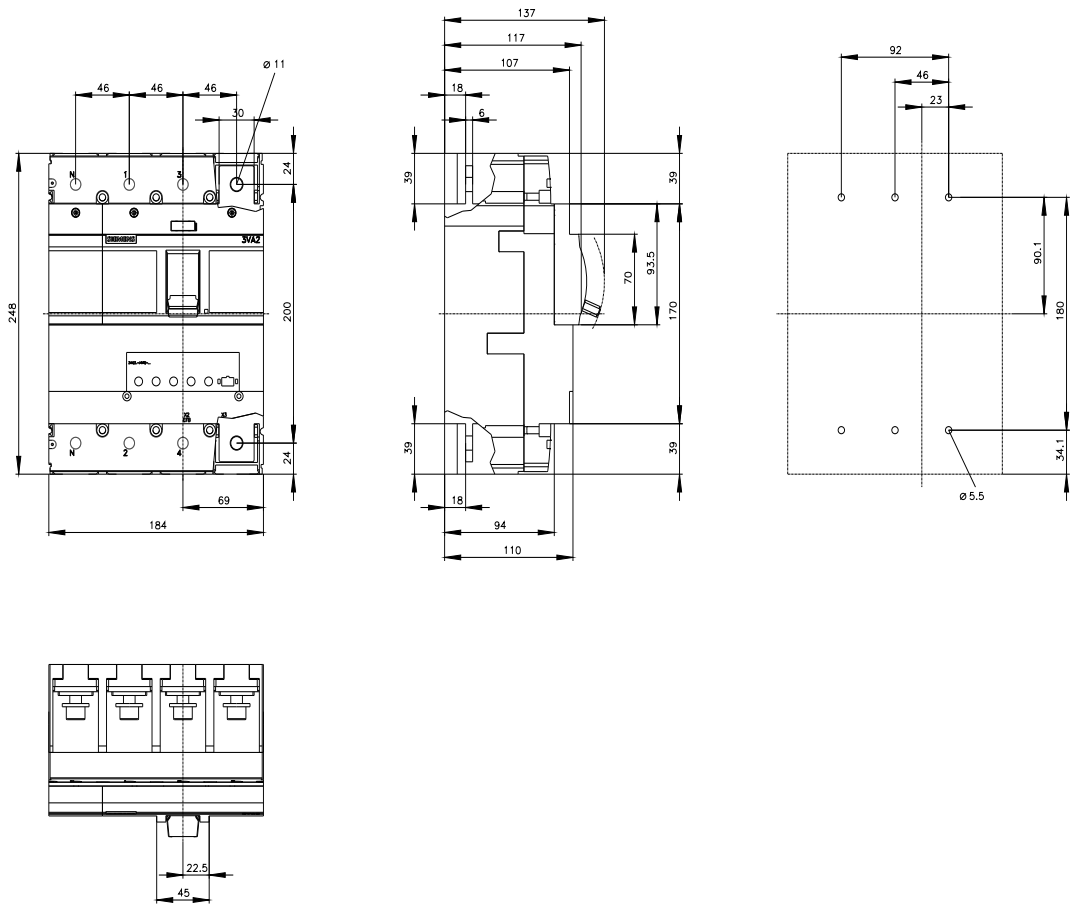
| General Product Approval | EMV | Test Certificates | Maritime application | other |
|--------------------------|-----|--|-------------------------------|--|
| | | Special Test Certificate | Miscellaneous | CCS (China Classification Society) |
| | | | | |

| other | Dangerous goods | Environment |
|------------------------------|-------------------------------|---------------------------------------|
| Confirmation | Miscellaneous | Transport Information |
| | | |
| | | |
| | | |

Environment

[Environmental Confirmations](#)

- #### Further information
- Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
 - Information for data generation and storage
<https://support.industry.siemens.com/cs/ww/en/view/109995012>
 - Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/lowvoltage/catalogs>
 - Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2340-0HM42-0AA0>
 - Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-0HM42-0AA0>
 - Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-0HM42-0AA0
 - CAX-Online-Generator
<https://www.siemens.com/cax>
 - Tender specifications
<https://www.siemens.com/specifications>
 - Characteristic curves
[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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