



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS CABLE CONNECTION

| Model | | |
|---|---|---|
| product brand name | | SENTRON |
| Product designation | | Molded case circuit breaker |
| Design of the product | | Line protection |
| Product variations | | Selective Applications |
| Ground fault monitoring version | | Summation current formation L-conductor |
| Design of the auxiliary release | | without auxiliary release |
| Design of the auxiliary switch | | Without |
| Design of the operating mechanism | | toggle handle |
| Type of the driving mechanism / motor drive | | No |
| Design of the overcurrent release | | ETU860 |
| General technical data | | |
| Number of poles | | 3 |
| Trip class / of the L-trip / with I ² t characteristic / initial value | | 0.5 |
| Trip class / of the L-trip / with I ² t characteristic / Full-scale value | | 25 |
| Electrical endurance (switching cycles) • at AC-1 / at 380/415 V / at 50/60 Hz | | 12 000 |
| Total disconnection time / for G-tripping / with standard characteristic / initial value | s | 0.05 |
| Total disconnection time / for G-tripping / with standard characteristic / Full-scale value | s | 0.8 |
| circuit-breaker / Design | | 3VA |
| Mechanical service life (switching cycles) / typical | | 20 000 |

| Voltage | | |
|--|---|-------------------|
| Insulation voltage / Rated value | V | 800 |
| Protection class | | |
| Protection class IP | | IP40 |
| Protection class IP / on the front | | IP40 |
| Protective function of the overcurrent release | | LSIG |
| Switching capacity | | |
| Switching capacity class of the circuit breaker | | L |
| Dissipation | | |
| Active power loss | | |
| • maximum | W | 1.2 |
| Electricity | | |
| Continuous current / Rated value / maximum | A | 160 |
| Continuous current / Rated value | A | 40 |
| Adjustable response value current / of the instantaneous short-circuit release / initial value | A | 1.5 |
| Main circuit | | |
| Operating voltage | | |
| • with AC / at 50/60 Hz / Rated value | V | 690 |
| Operating current | | |
| • at 40 °C / Rated value | A | 40 |
| • at 50 °C / Rated value | A | 40 |
| • at 60 °C / Rated value | A | 40 |
| • at 65 °C / Rated value | A | 40 |
| • at 70 °C / Rated value | A | 40 |
| Auxiliary circuit | | |
| Number of NC contacts / for auxiliary contacts | | 0 |
| Number of NO contacts / for auxiliary contacts | | 0 |
| Suitability | | |
| Suitability for use | | system protection |
| Adjustable parameters | | |
| Adjustable response value current | | |
| • for G-tripping / with I ² t characteristic / initial value | A | 0.4 |
| • for G-tripping / with I ² t characteristic / Full-scale value | A | 1 |
| • for G-tripping / with standard characteristic / initial value | A | 0.4 |
| • for G-tripping / with standard characteristic / Full-scale value | A | 1 |

| | | |
|--|---|------|
| • of I-trip / Full-scale value | A | 12 |
| • of the short-time delayed short-circuit release / initial value | A | 0.6 |
| • of the short-time delayed short-circuit release / Full-scale value | A | 10 |
| • of S-trip / with standard characteristic / initial value | A | 0.6 |
| • of S-trip / with standard characteristic / Full-scale value | A | 10 |
| Adjustable delay time | | |
| • for G-tripping / with I2t characteristic / initial value | s | 0.05 |
| • for G-tripping / with I2t characteristic / Full-scale value | s | 0.8 |
| • of S-trip / with I2t characteristic / initial value | s | 0.05 |
| • of S-trip / with I2t characteristic / Full-scale value | s | 0.5 |
| • of S-trip / with standard characteristic / initial value | s | 0.05 |
| • of S-trip / with standard characteristic / Full-scale value | s | 0.5 |
| Adjustable response value current / of the current-dependent overload release / initial value | A | 0.4 |

Product details

| | | |
|--|--|-----|
| Product component | | |
| • Trip indicator | | No |
| • display | | Yes |
| • undervoltage release | | No |
| Product property | | |
| • of the circuit breaker with tripping unit / Tripping characteristic adjustable | | Yes |
| • for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof | | Yes |
| Product expansion / optional / motor drive | | Yes |

Product function

| | | |
|-------------------------------|--|-----|
| Product function | | |
| • Intrinsic device protection | | Yes |
| • communication function | | Yes |
| • Phase failure detection | | No |
| • other measurement function | | Yes |

Accessories

| | | |
|--|--|------------------------------------|
| Manufacturer article number / of the supplied basic switch | | 3VA2140-8KQ36-0AA0 |
|--|--|------------------------------------|

Short circuit

| | | |
|--|----|-----|
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / Rated value | kA | 200 |
| • at 415 V / Rated value | kA | 150 |
| • at 440 V / Rated value | kA | 150 |
| • at 500 V / Rated value | kA | 100 |
| • at 690 V / Rated value | kA | 18 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / Rated value | kA | 200 |
| • at 415 V / Rated value | kA | 150 |
| • at 440 V / Rated value | kA | 150 |
| • at 500 V / Rated value | kA | 100 |
| • at 690 V / Rated value | kA | 24 |
| Short-circuit current making capacity (Icm) | | |
| • at 240 V / Rated value | kA | 440 |
| • at 415 V / Rated value | kA | 330 |
| • at 440 V / Rated value | kA | 330 |
| • at 500 V / Rated value | kA | 220 |
| • at 690 V / Rated value | kA | 48 |

Connections

| | | |
|---|--|------------------------------|
| Arrangement of electrical connectors / for main current circuit | | Front terminal |
| Type of connectable conductor cross-section | | |
| • of the round conductor terminal / stranded | | 1 x (6-120 mm ²) |
| Type of electrical connection / for main current circuit | | Box terminal |

Mechanical Design

| | | |
|---------------|----|----------------|
| Height | mm | 181 |
| Width | mm | 105 |
| Depth | mm | 107 |
| Mounting type | | fixed mounting |

Environmental conditions

| | | |
|------------------------------|----|-----|
| Ambient temperature | | |
| • during operation / minimum | °C | -25 |
| • during operation / maximum | °C | 70 |
| • during storage / minimum | °C | -40 |
| • during storage / maximum | °C | 80 |

Certificates

| | | |
|-------------------|--|--|
| Equipment marking | | |
|-------------------|--|--|

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

Q

Q

| | | | |
|---------------------------------|------------|----------------------------------|--------------------------|
| General Product Approval | EMC | Declaration of Conformity | Shipping Approval |
|---------------------------------|------------|----------------------------------|--------------------------|



CCC



VDE


[other](#)


EG-Konf.



DNV

| | |
|--------------------------|--------------|
| Shipping Approval | other |
|--------------------------|--------------|

[other](#)


GL

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21408KQ360AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA21408KQ360AA0/all>

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

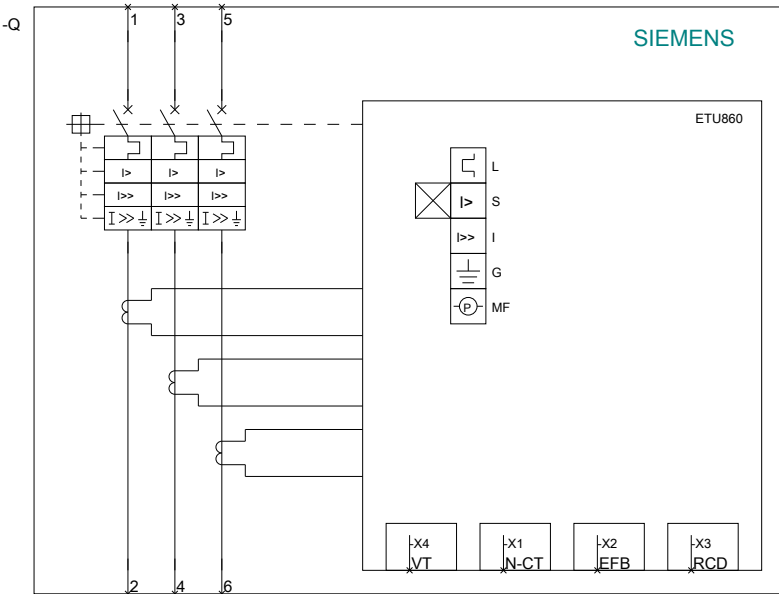
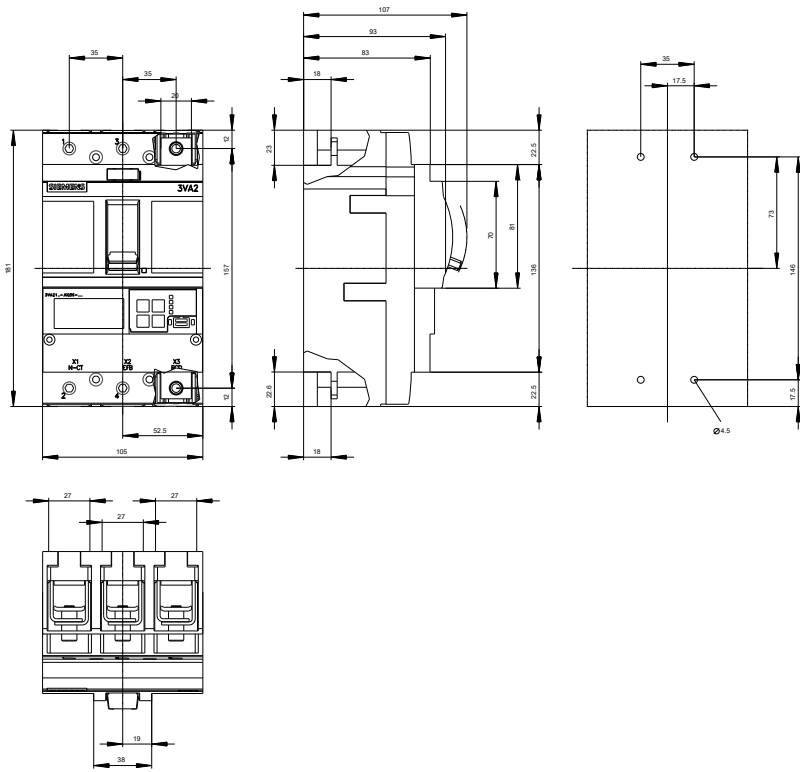
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21408KQ360AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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