

CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 3-POLE, MOTOR STARTER PROTECTION TM120M, AM, IN=125A WITHOUT OVERLOAD PROTECTION SHORT CIRCUIT PROTECTION II=5...15 X IN CABLE CONNECTION UNDERVOLTAGE RELEASE (UVR) 24 V DC



| Model | |
|--|-----------------------------|
| product brandname | SENTRON |
| Product designation | Molded case circuit breaker |
| Design of the product | Starter protection |
| Design of the overcurrent release | TM120M |
| Protective function of the overcurrent release | I |
| Number of poles | 3 |
| Design of the auxiliary release | Undervoltage release (UVR) |
| Design of the auxiliary switch | Without |
| General technical data | |
| Tension assignée d'isolement Ui | 800 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 690 V |
| Max. rated operational voltage Ue with DC | 500 V |
| Operating power / at AC-3 / at 400 V | 0 W |
| Operating power / at AC-3 / at 230 V | 0 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 23.2 W |
| Mechanical service life (switching cycles) / typical | 15 000 |

| | |
|---|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 8 000 |
| Neutral conductors / upgradeable/retrofitable | No |
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | No |
| • Phase failure detection | No |
| • other measurement function | No |
| Net weight | 0.9 kg |

Electricity

| | |
|---|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné Iu | 125 A |
| Operating current | |
| • at 40 °C | 125 A |
| • at 45 °C | 125 A |
| • at 50 °C | 125 A |
| • at 55 °C | 122 A |
| • at 60 °C | 120 A |
| • at 65 °C | 117 A |
| • at 70 °C | 114 A |

Switching capacity according to IEC 60947

| | |
|---|---------|
| Switching capacity class of the circuit breaker | H |
| Maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 100 kA |
| • at 415 V | 70 kA |
| • at 440 V | 36 kA |
| • at 690 V | 5 kA |
| Operational short-circuit current breaking capacity (Ics) | |
| • at 240 V | 100 kA |
| • at 415 V | 70 kA |
| • at 440 V | 36 kA |
| • at 690 V | 5 kA |
| Short-circuit current making capacity (Icm) | |
| • at 240 V | 220 kA |
| • at 415 V | 154 kA |
| • at 440 V | 75.6 kA |
| • at 690 V | 8.5 kA |

Adjustable parameters

| | |
|---|-----|
| Adjustable response value current / I _g min. | 0 A |
|---|-----|

| | |
|---|-----|
| Adjustable response value current / lg min. | 0 A |
| Adjustable response value current / lg min. | 0 A |
| Adjustable response value current / lg min. | 0 A |
| Adjustable response value current / li min. | 0 A |
| Adjustable response value current / li max. | 0 A |

Mechanical Design

| | |
|--------|---------|
| Height | 130 mm |
| Width | 76.2 mm |
| Depth | 70 mm |

Connections

| | |
|---|---------------------------------|
| Arrangement of electrical connectors / for main current circuit | Front terminal |
| Type of electrical connection / for main current circuit | box terminal |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (1.5 - 70 mm ²) |

Auxiliary circuit

| | |
|---|-----|
| Product component | |
| <ul style="list-style-type: none"> • undervoltage release | Yes |
| <ul style="list-style-type: none"> • Voltage trigger | No |
| <ul style="list-style-type: none"> • undervoltage release with leading contact | No |
| <ul style="list-style-type: none"> • Trip indicator | No |

Accessories

| | |
|--|------------------------------------|
| Product extension / optional / motor drive | Yes |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied basic switch | 3VA1112-6MH36-0AA0 |
| <ul style="list-style-type: none"> • of the integrated auxiliary trip | 3VA9608-0BB11 |

Environmental conditions

| | |
|--|--------|
| Protection class IP / on the front | IP40 |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation / minimum | -25 °C |
| <ul style="list-style-type: none"> • during operation / maximum | 70 °C |
| <ul style="list-style-type: none"> • during storage / minimum | -40 °C |
| <ul style="list-style-type: none"> • during storage / maximum | 80 °C |

Certificates

| | |
|--|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--|---|

| | | | |
|--------------------------|-----|---------------------------|-------------------|
| General Product Approval | EMC | Declaration of Conformity | Test Certificates |
|--------------------------|-----|---------------------------|-------------------|



CCC



VDE



RCM



EG-Konf.

[sonstig](#)

other

[Bestätigungen](#)

[sonstig](#)

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/3VA1112-6MH36-0BA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA1112-6MH36-0BA0/all>

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

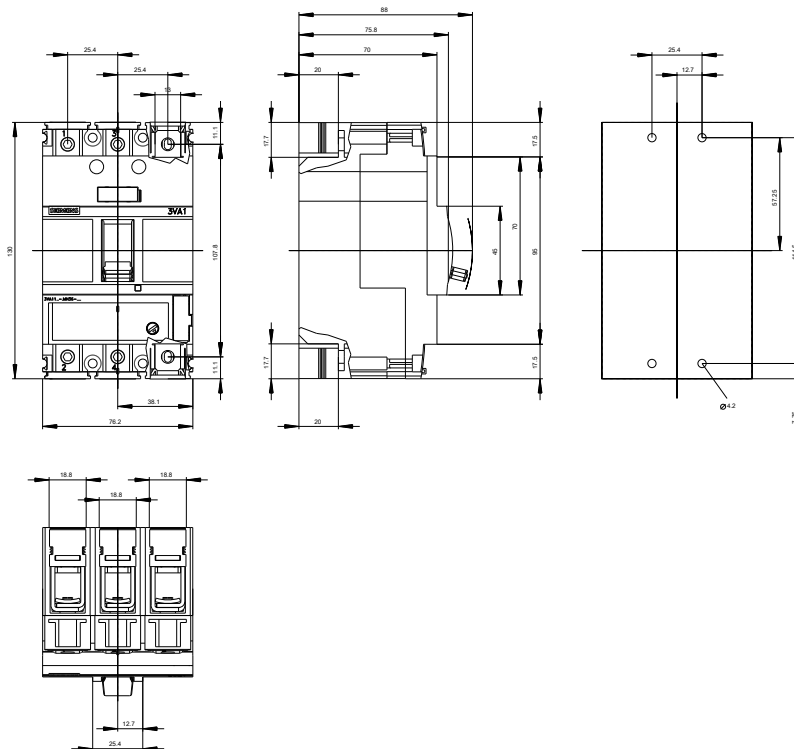
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-6MH36-0BA0

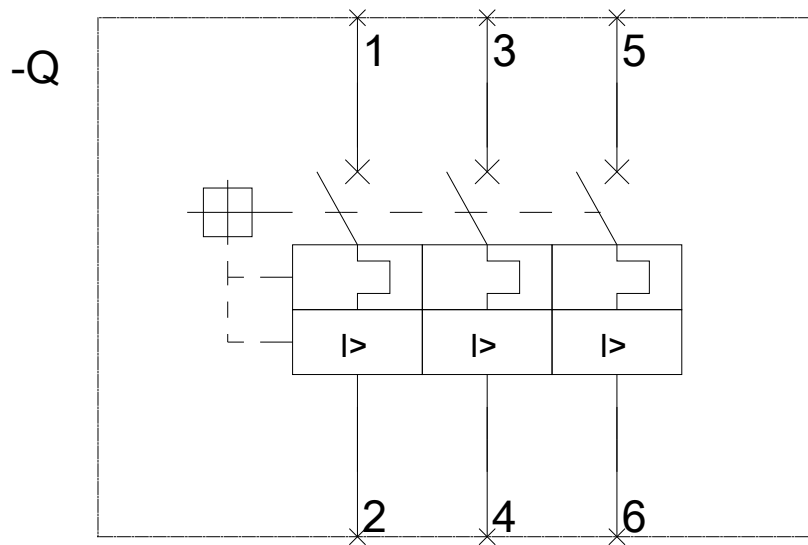
CAX-Online-Generator

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

Tender specifications

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





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