



circuit breaker 3VA1 IEC frame 630 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=400A without overload protection short-circuit protection li=8...16 x In nut keeper kit

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| Product version | Starter protection |
| design of the overcurrent release | TM120M |
| protection function of the overcurrent release | I |
| number of poles | 3 |
| General technical data | |
| Tension assignée d'isolement Ui | 800 V |
| power loss [W] / maximum | 76.8 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 25.6 W |
| mechanical service life (switching cycles) / typical | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 4 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 2 700 |
| 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 | 3.9 kg |
| Current | |
| Max. rated operational current of the frame size | 630 A |
| Courant permanent assigné Iu | 400 A |
| operational current | |
| • at 40 °C | 400 A |
| • at 45 °C | 400 A |
| • at 50 °C | 400 A |
| • at 55 °C | 392 A |
| • at 60 °C | 384 A |
| • at 65 °C | 376 A |
| • at 70 °C | 367 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | M |
| breaking capacity maximum short-circuit current (Icu) | |

| | |
|--|--|
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 85 kA 55 kA 55 kA 36 kA 7 kA |
| breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 85 kA 55 kA 55 kA 36 kA 5 kA |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 187 kA 121 kA 121 kA 76 kA 11.9 kA |

| Adjustable parameters | |
|--|---------|
| Adjustable response value current / li min. | 2 400 A |
| Adjustable response value current / li max. | 4 800 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |

| Mechanical Design | |
|-------------------|--------|
| height [in] | 9.8 in |
| Height | 248 mm |
| width [in] | 5.4 in |
| Width | 138 mm |
| depth [in] | 4.3 in |
| depth | 110 mm |

| Connections | |
|---|----------------|
| arrangement of electrical connectors / for main current circuit | Front terminal |

| 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 | |
| <ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum | -25 °C 70 °C -40 °C 80 °C |

| Certificates | |
|--------------------------------------|---|
| reference code / acc. to IEC 81346-2 | Q |

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



Miscellaneous



| Test Certificates | Shipping Approval | other |
|-------------------|-------------------|-------|
|-------------------|-------------------|-------|

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3VA1440-5MH32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1440-5MH32-0AA0>

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

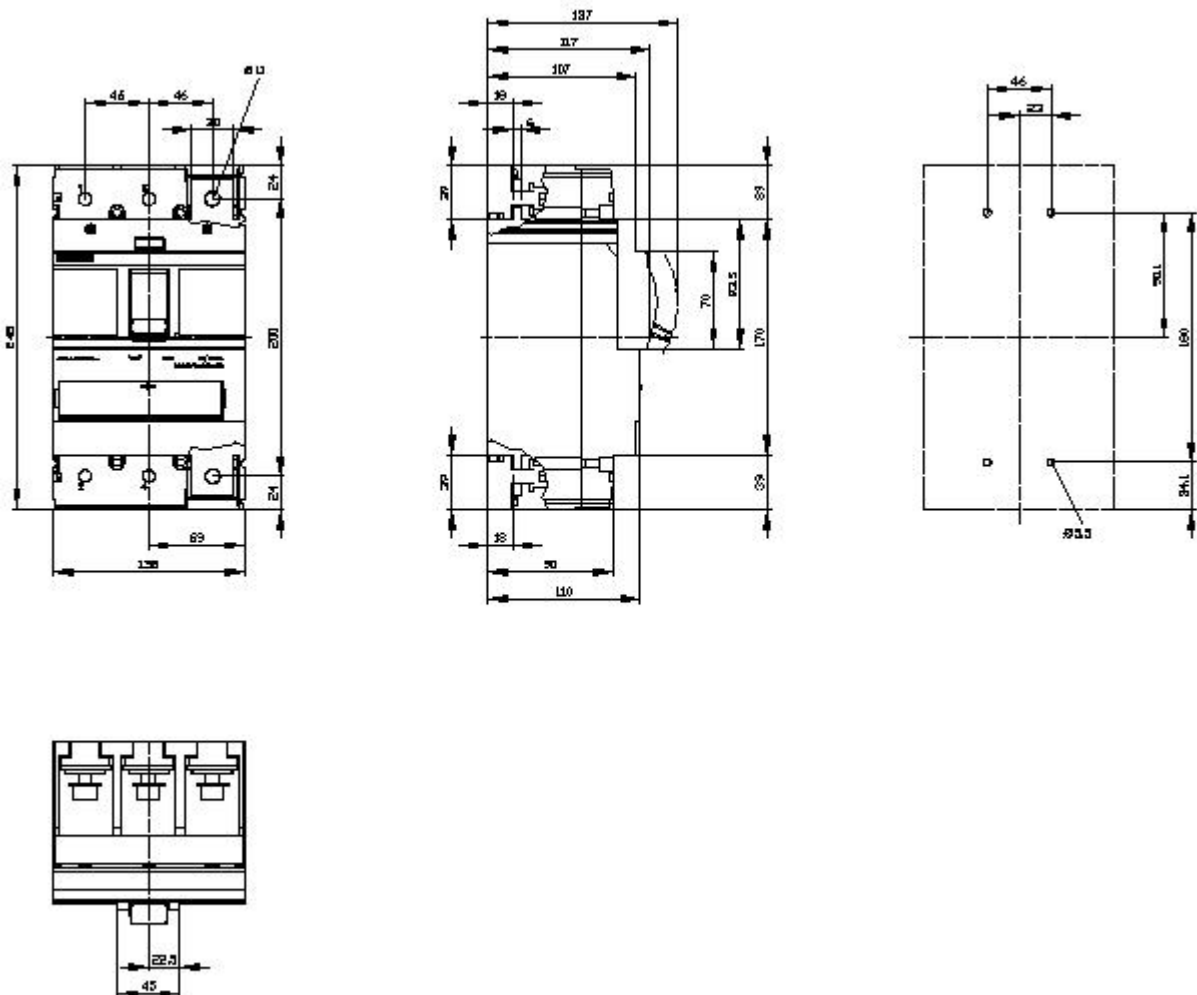
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA1440-5MH32-0AA0

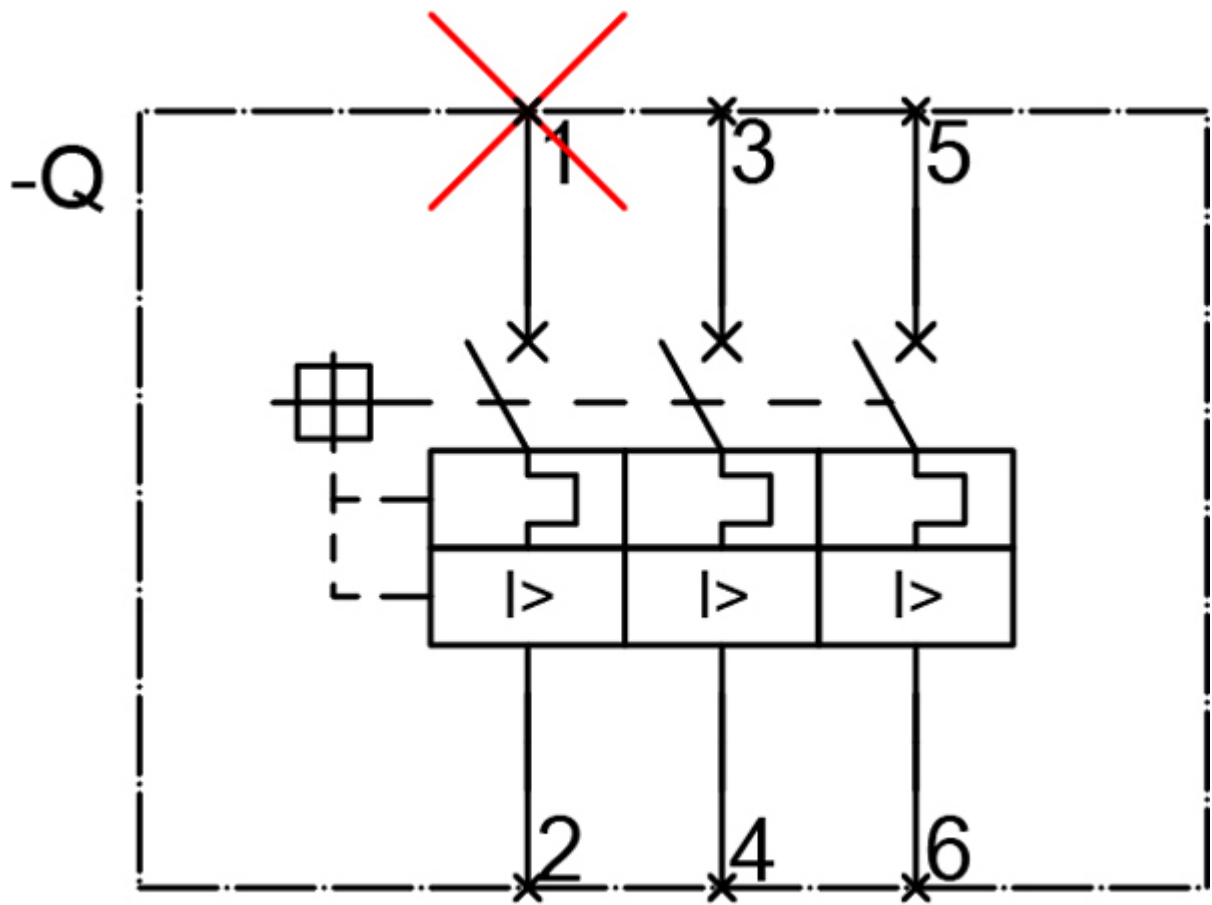
CAX-Online-Generator

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

Tender specifications

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





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