

circuit breaker 3VA1 IEC frame 250 breaking capacity class S
 $I_{cu}=36kA$ @ 415V 3-pole, line protection TM240, ATAM, $I_n=250A$
 overload protection $I_r=175A...250A$ short-circuit protection $I_i=5...10 \times I_n$
 In nut keeper kit



| Model | |
|------------------------------------------------|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| Product version | Line protection |
| design of the overcurrent release | TM240 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |

| General technical data | |
|------------------------------------------------------------------------------------------------|--------|
| Tension assignée d'isolement U_i | 800 V |
| Max. rated operational voltage U_e with AC 50/60Hz | 690 V |
| Max. rated operational voltage U_e with DC | 500 V |
| power loss [W] / maximum | 57 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 19 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 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 5 000 |

| | |
|-----------------------------------------------|----------|
| Neutral conductors / upgradeable/retrofitable | No |
| ground fault monitoring version | Without |
| product function | |
| • communication function | No |
| • other measurement function | No |
| net weight | 1.612 kg |

Current

| | |
|--------------------------------------------------|---------|
| Max. rated operational current of the frame size | 250 A |
| Courant permanent assigné lu | 250 A |
| operating current | |
| • at 40 °C | 250 A |
| • at 45 °C | 250 A |
| • at 50 °C | 250 A |
| • at 55 °C | 243.3 A |
| • at 60 °C | 236.5 A |
| • at 65 °C | 229.8 A |
| • at 70 °C | 223 A |

Switching capacity according to IEC 60947

| | |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| switching capacity class of the circuit breaker | S |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| • at 440 V | 25 kA |
| • at 690 V | 7 kA |
| operational short-circuit current breaking capacity (Ics) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| • at 440 V | 25 kA |
| • at 690 V | 5 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 121 kA |
| • at 415 V | 76 kA |
| • at 440 V | 53 kA |
| • at 690 V | 11.9 kA |
| design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |

Adjustable parameters

| | |
|---------------------------------------------------------|-------|
| Adjustable response value current / I _g min. | 175 A |
| Adjustable response value current / I _g min. | 250 A |

| | |
|-------------------------------------------------------------------------|---------|
| Short-term delayed / tripping switchable / I _{2t} =ON/OFF | No |
| Adjustable response value current / I _i min. | 1 250 A |
| Adjustable response value current / I _i max. | 2 500 A |
| Ground fault protection / tripping switchable / I _{2t} =ON/OFF | No |

Mechanical Design

| | |
|-------------|--------|
| height [in] | 6.2 in |
| Height | 158 mm |
| width [in] | 4.1 in |
| Width | 105 mm |
| depth [in] | 2.8 in |
| depth | 70 mm |

Connections

| | |
|-----------------------------------------------------------------------------------------|----------------|
| arrangement of electrical connectors / for main current circuit | Front terminal |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 13 x 1 mm |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8 mm |

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

| | |
|--------------------------|-----|
| General Product Approval | EMC |
|--------------------------|-----|



CCC



VDE

[Miscellaneous](#)

[KC](#)



RCM

| | | |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|



EG-Konf.

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS

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



LRS



RMRS

[Manufacturer Declaration](#)

[Miscellaneous](#)

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?mlfb=3VA1225-4EF32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-4EF32-0AA0>

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

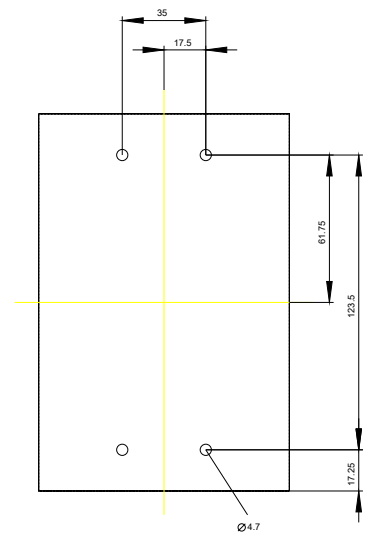
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1225-4EF32-0AA0

CAX-Online-Generator

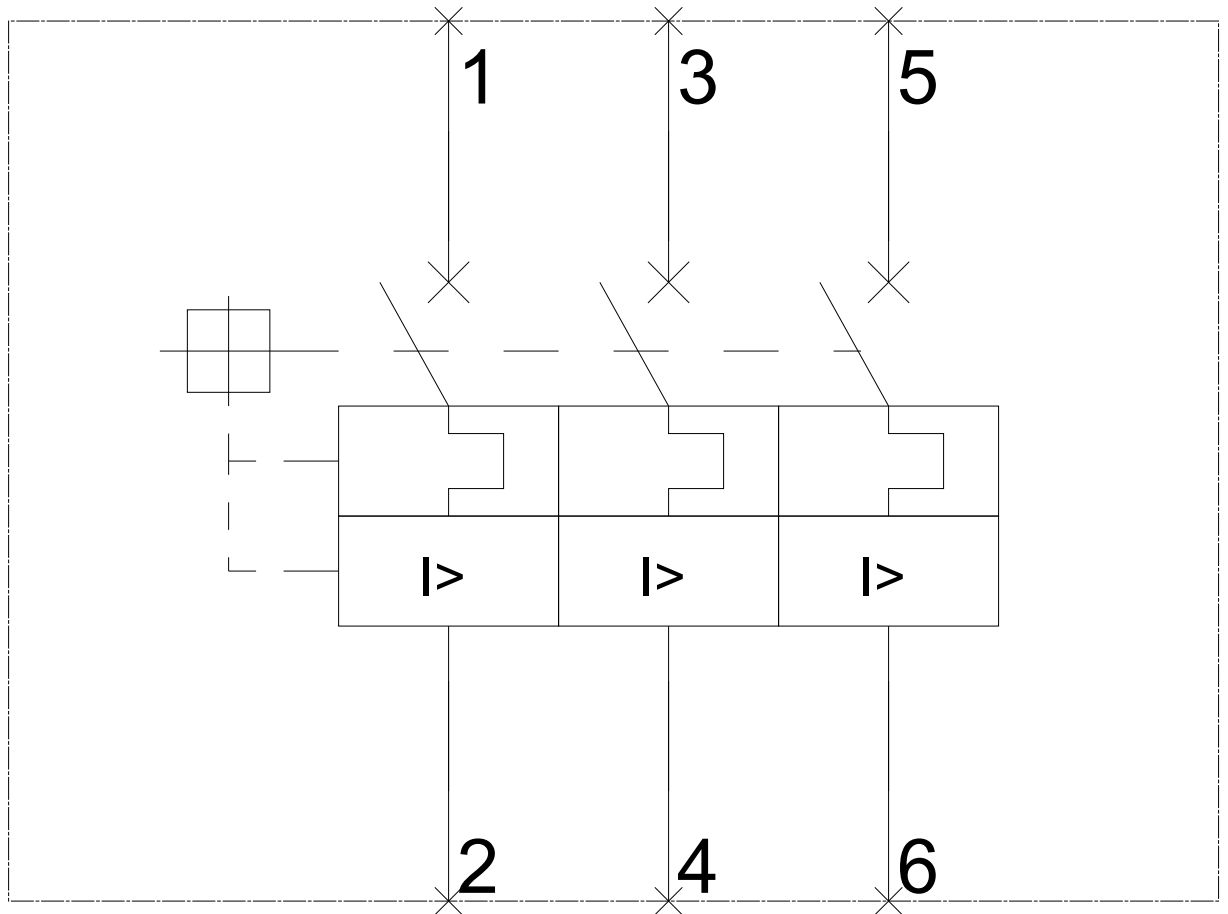
<http://www.siemens.com/cax>

Tender specifications

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



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