

circuit breaker 3VA2 IEC frame 160 breaking capacity class C
 $I_{cu}=110\text{kA}$ @ 415V 3-pole, motor protection ETU350M, LSI, $I_n=63\text{A}$
 overload protection $I_r=25\text{A}\dots63\text{A}$ short-circuit protection $I_{sd}=3\dots15 \times I_r$, $I_i=15 \times I_n$ nut keeper kit



| Model | |
|--|-----------------------------|
| Product brand name | SENTRON |
| Product designation | Molded case circuit breaker |
| Product version | Motor protection |
| Design of the overcurrent release | ETU350M |
| Protective function of the overcurrent release | LSI |
| Number of poles | 3 |

| General technical data | |
|--|----------|
| Rated insulation voltage U_i | 800 V |
| Max. rated operational voltage U_e with AC 50/60Hz | 690 V |
| Operating power / at AC-3 / at 400 V | 30 000 W |
| Operating power / at AC-3 / at 230 V | 18 500 W |
| Power loss [W] / maximum | 10 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 3.33 W |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 12 000 |

| | |
|---|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 8 000 |
| Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz | 7 500 |
| Neutral conductors / upgradeable/retrofitable | No |
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | No |
| • Phase failure detection | Yes |
| • other measurement function | No |
| Net weight | 2.3 kg |

Current

| | |
|--|-------|
| Max. rated operational current of the frame size | 160 A |
| Rated continuous current I _u | 63 A |
| Operating current | |
| • at 40 °C | 63 A |
| • at 45 °C | 63 A |
| • at 50 °C | 63 A |
| • at 55 °C | 63 A |
| • at 60 °C | 63 A |
| • at 65 °C | 63 A |
| • at 70 °C | 63 A |

Switching capacity according to IEC 60947

| | |
|--|--------|
| Switching capacity class of the circuit breaker | C |
| Maximum short-circuit current breaking capacity (I _{cu}) | |
| • at 240 V | 150 kA |
| • at 415 V | 110 kA |
| • at 440 V | 110 kA |
| • at 500 V | 85 kA |
| • at 690 V | 2.5 kA |
| Operational short-circuit current breaking capacity (I _{cs}) | |
| • at 240 V | 150 kA |
| • at 415 V | 110 kA |
| • at 440 V | 110 kA |
| • at 500 V | 85 kA |
| • at 690 V | 2.5 kA |
| Short-circuit current making capacity (I _{cm}) | |
| • at 240 V | 330 kA |
| • at 415 V | 242 kA |
| • at 440 V | 242 kA |
| • at 500 V | 187 kA |

• at 690 V

3.8 kA

Adjustable parameters

| | |
|---|--------|
| Adjustable response value current / I _r min. | 25 A |
| Adjustable response value current / I _r max. | 63 A |
| Adjustable response value current / I _{sd} min. | 189 A |
| Adjustable response value current / I _{sd} max. | 945 A |
| Short-term delayed / tripping switchable / I _{2t} =ON/OFF | No |
| Adjustable response value time / t _{sd} min. | 0.03 s |
| Adjustable response value time / t _{sd} max. | 0.03 s |
| Adjustable response value current / I _i min. | 945 A |
| Adjustable response value current / I _i max. | 945 A |
| Ground fault protection / tripping switchable / I _{2t} =ON/OFF | No |

Mechanical Design

| | |
|-------------|--------|
| Height [in] | 7.1 in |
| Height | 181 mm |
| Width [in] | 4.1 in |
| Width | 105 mm |
| Depth [in] | 3.4 in |
| Depth | 86 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-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 8.5 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

| General Product Approval | | | | EMC |
|--|--|-----------------|----------------------|--|
|  CCC |  VDE | CB CB | <u>Miscellaneous</u> |  EAC |
| | | | |  RCM |

| Declaration of Conformity | Test Certificates | Shipping Approval | | other |
|---|----------------------|---------------------------------|--|---|
|  EG-Konf. | <u>Miscellaneous</u> | <u>Special Test Certificate</u> |  LRS | <u>CCS / China Classification Society</u> |
| | | | | <u>Manufacturer Declaration</u> |

| other |
|----------------------|
| <u>Miscellaneous</u> |

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=3VA2163-7MN32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-7MN32-0AA0>

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

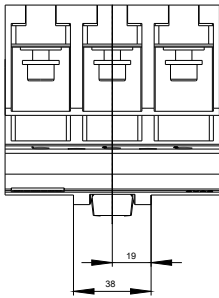
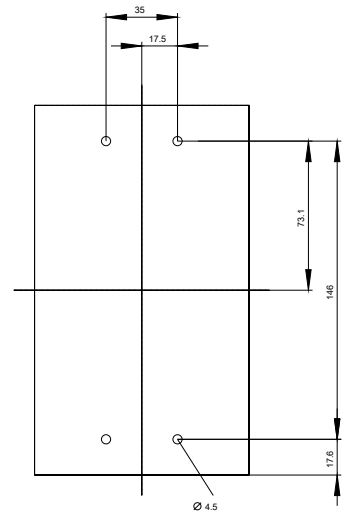
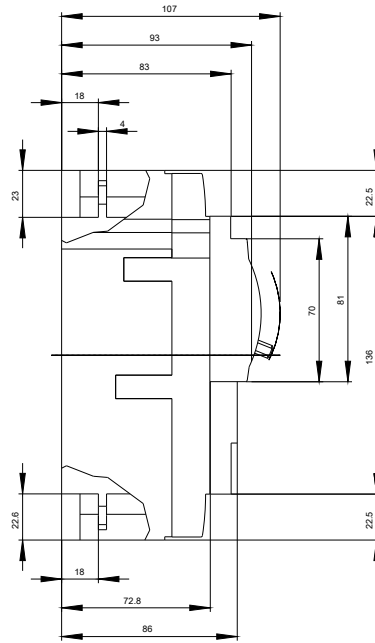
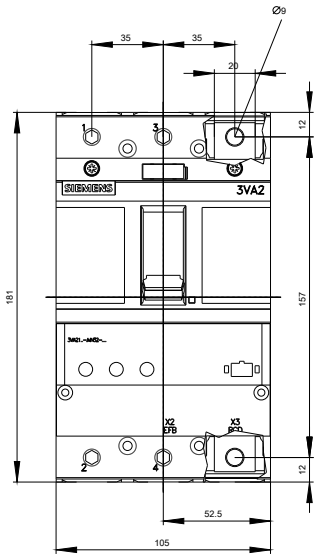
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-7MN32-0AA0

CAX-Online-Generator

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

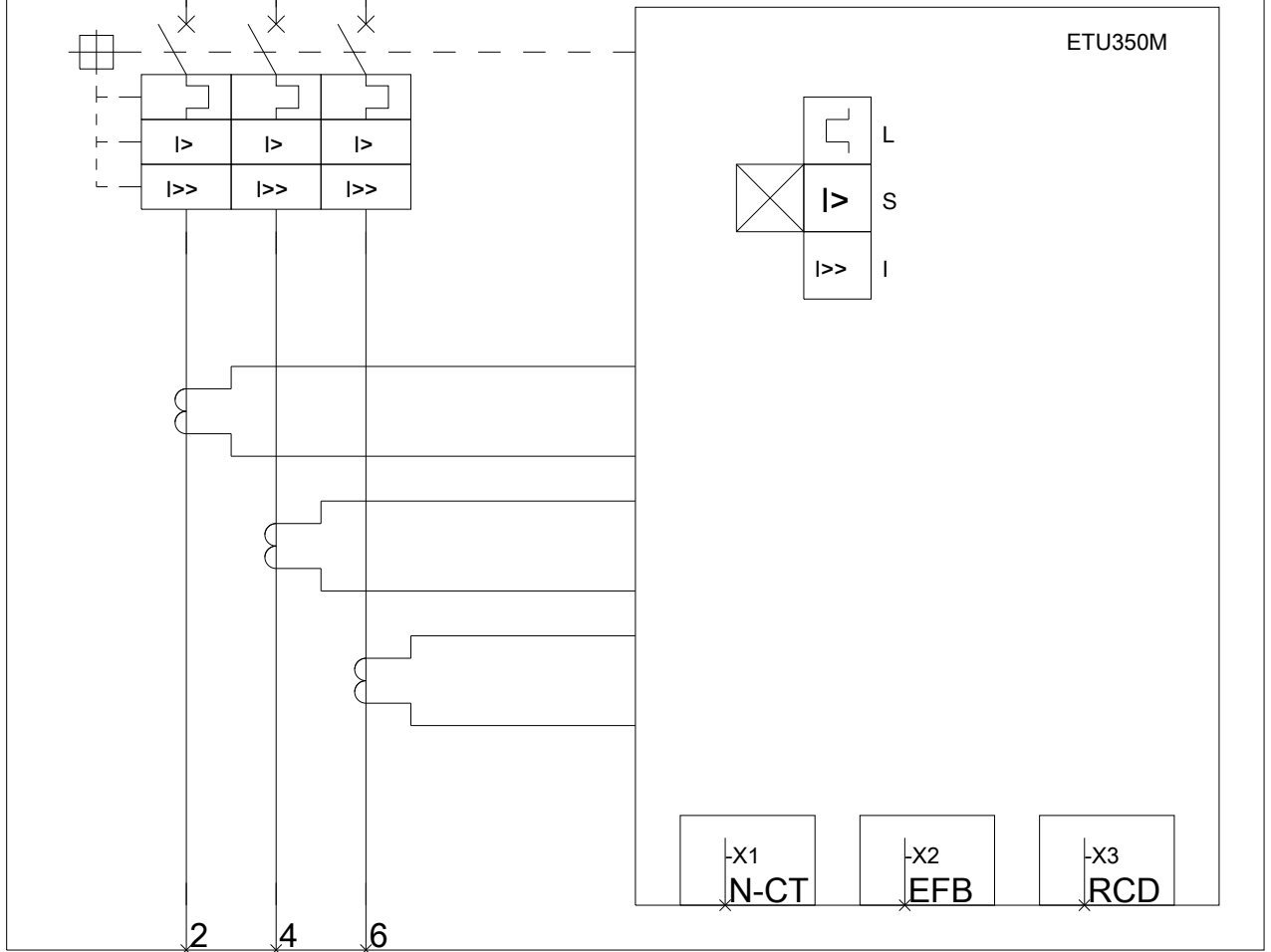
Tender specifications

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



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