

circuit breaker 3VA2 IEC frame 250 breaking capacity class C
 $I_{cu}=110\text{kA}$ @ 415V 3-pole, starter protection ETU310M, I, $I_n=200\text{A}$
 overload protection $I_r=80\text{A}\dots200\text{A}$ short-circuit protection $I_i=3\dots15 \times$
 I_n nut keeper kit undervoltage release (UVR) 208-230V AC 50/60Hz
 2 auxiliary switches HQ 1 trip alarm switch HQ



| Model | |
|---------------------------------------------------------------------------|-----------------------------------------------|
| Product brand name | SETRON |
| Product designation | Molded case circuit breaker |
| Product version | Starter protection |
| Design of the overcurrent release | ETU310M |
| Protective function of the overcurrent release | I |
| Number of poles | 3 |
| Design of the auxiliary release | Undervoltage release (UVR) |
| Auxiliary contact version | 2 auxiliary switches + 1 trip alarm switch HQ |
| 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 | 75 W |
| Power loss [W] / maximum | 75 W |
| Latching - endurance | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 10 000 |
| Neutral conductors / upgradeable/retrofitable | No |
| Ground fault monitoring version | Without |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Product function | |
| <ul style="list-style-type: none"> • communication function • Phase failure detection • other measurement function | No |
| Net weight | 2.284 kg |

Current

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Max. rated operational current of the frame size | 250 A |
| Rated continuous current I _u | 200 A |
| Operating current | |
| <ul style="list-style-type: none"> • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • at 70 °C | 200 A 200 A 200 A 192 A 188 A 184 A 180 A |

Switching capacity according to IEC 60947

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Switching capacity class of the circuit breaker | C |
| Maximum short-circuit current breaking capacity (I _{cu}) | |
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 150 kA 110 kA 110 kA 85 kA 25 kA |
| Operational short-circuit current breaking capacity (I _{cs}) | |
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 150 kA 110 kA 110 kA 85 kA 25 kA |
| Short-circuit current making capacity (I _{cm}) | |
| <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V | 330 kA 242 kA 242 kA 187 kA 52.5 kA |

Adjustable parameters

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

| | |
|--------------------------------------------------------------------|---------|
| Short-term delayed / tripping switchable / I _{2t} =ON/OFF | No |
| Adjustable response value current / I _i min. | 600 A |
| Adjustable response value current / I _i max. | 3 000 A |

Mechanical Design

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|--------|--------|
| Height | 181 mm |
| Width | 105 mm |
| Depth | 86 mm |

Connections

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|-----------------------------------------------------------------|----------------|
| Arrangement of electrical connectors / for main current circuit | Front terminal |
| Type of electrical connection / for main current circuit | Lug terminal |

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 | Yes |
| Number of CO contacts / for auxiliary contacts | 3 |

Accessories

| | |
|-----------------------------------------------------------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive | Yes |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied basic switch | 3VA2220-7MS32-0AA0 |
| <ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch | 3VA9988-0AA12 |
| <ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch | 3VA9988-0AB12 |
| <ul style="list-style-type: none"> • of the integrated auxiliary trip | 3VA9608-0BB25 |

Environmental conditions

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|--------------------------------------------------------------------------------|--------|
| 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

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

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



CCC



VDE

[Miscellaneous](#)



RCM



EG-Konf.

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

[Miscellaneous](#)

[Special Test Certificate](#)



LRS

[CCS / China Classification Society](#)

[Confirmation](#)

[Manufacturer Declaration](#)

| |
|-------|
| other |
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[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=3VA2220-7MS32-0DH0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-7MS32-0DH0>

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

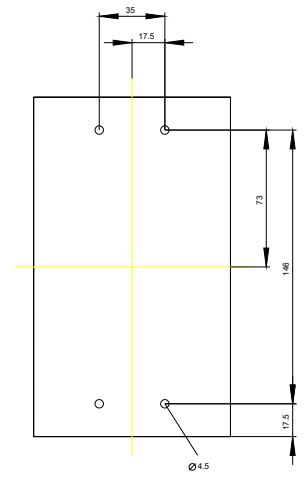
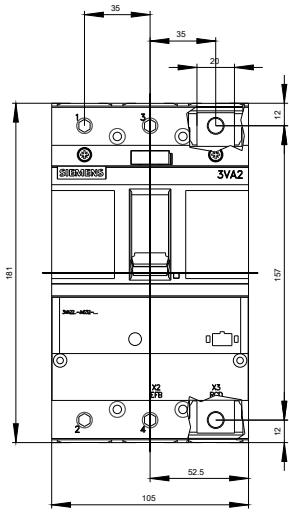
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-7MS32-0DH0

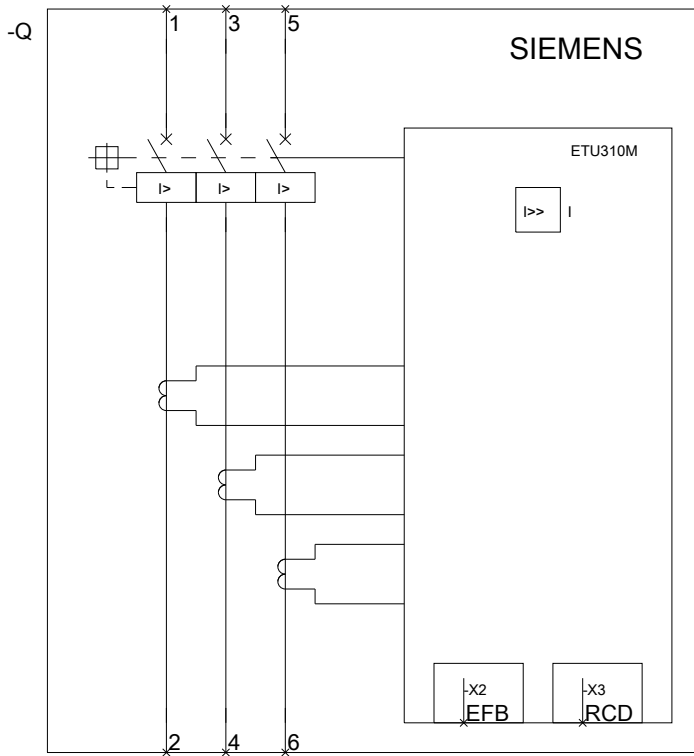
CAx-Online-Generator

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

Tender specifications

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





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| Siemens | 3VA2xxx-xMS3x-C <small>Format / Size: Hybrid</small> |
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