

circuit breaker 3VA2 IEC frame 160 breaking capacity class M  
Icu=55kA @ 415V 3-pole, motor protection ETU350M, LSI, In=40A  
overload protection Ir=16A...40A short-circuit protection Isd=3...15 x  
Ir, li=15 x In clamp connection

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

| General technical data                                                                         |          |
|------------------------------------------------------------------------------------------------|----------|
| Tension assignée d'isolement Ui                                                                | 800 V    |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V    |
| operating power / at AC-3 / at 400 V                                                           | 18 500 W |
| operating power / at AC-3 / at 230 V                                                           | 11 000 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                      | 10 000   |
| 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                                                                                     | 2.4 kg   |

| Current                                          |       |
|--------------------------------------------------|-------|
| Max. rated operational current of the frame size | 160 A |
| Courant permanent assigné Iu                     | 40 A  |
| operating current                                |       |
| • at 40 °C                                       | 40 A  |

|            |      |
|------------|------|
| • at 45 °C | 40 A |
| • at 50 °C | 40 A |
| • at 55 °C | 40 A |
| • at 60 °C | 40 A |
| • at 65 °C | 40 A |
| • at 70 °C | 40 A |

#### Switching capacity according to IEC 60947

|                                                           |        |
|-----------------------------------------------------------|--------|
| switching capacity class of the circuit breaker           | M      |
| maximum short-circuit current breaking capacity (Icu)     |        |
| • at 240 V                                                | 85 kA  |
| • at 415 V                                                | 55 kA  |
| • at 440 V                                                | 55 kA  |
| • at 500 V                                                | 36 kA  |
| • at 690 V                                                | 2.5 kA |
| operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V                                                | 85 kA  |
| • at 415 V                                                | 55 kA  |
| • at 440 V                                                | 55 kA  |
| • at 500 V                                                | 36 kA  |
| • at 690 V                                                | 2.5 kA |
| short-circuit current making capacity (Icm)               |        |
| • at 240 V                                                | 187 kA |
| • at 415 V                                                | 121 kA |
| • at 440 V                                                | 121 kA |
| • at 500 V                                                | 76 kA  |
| • at 690 V                                                | 3.8 kA |

#### Adjustable parameters

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Adjustable response value current / I <sub>g</sub> min.                 | 16 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 40 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 120 A  |
| Adjustable response value current / I <sub>g</sub> min.                 | 600 A  |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF      | No     |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.03 s |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.03 s |
| Adjustable response value current / I <sub>i</sub> min.                 | 600 A  |
| Adjustable response value current / I <sub>i</sub> max.                 | 600 A  |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =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                        | double-sided box terminal |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6-120 mm²)           |

#### 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

**CB**

CB

[Miscellaneous](#)



RCM

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



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)



LRS

[CCS / China Classification Society](#)

[Confirmation](#)

| other |
|-------|
|-------|

[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=3VA2140-5MN36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-5MN36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2140-5MN36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-5MN36-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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



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