



circuit breaker 3VA2 IEC frame 1000 breaking capacity class M Icu=55kA @ 415V 3-pole, line protection ETU330, LIG, In=800A overload protection Ir=320A...800A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.1/0.3s nut keeper kit

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| Product version | Line protection |
| design of the overcurrent release | ETU330 |
| protection function of the overcurrent release | LIG |
| 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 |
| power loss [W] / maximum | 231 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 77 W |
| mechanical service life (switching cycles) / typical | 10 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 4 600 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 3 200 |
| Neutral conductors / upgradeable/retrofitable | No |
| ground-fault monitoring version | Summation current formation L-conductor |
| product function | |
| • communication function | No |
| • other measurement function | No |
| Current | |
| Max. rated operational current of the frame size | 1 000 A |
| Courant permanent assigné Iu | 800 A |
| operational current | |
| • at 40 °C | 800 A |
| • at 45 °C | 800 A |
| • at 50 °C | 800 A |
| • at 55 °C | 800 A |
| • at 60 °C | 800 A |
| • at 65 °C | 767 A |
| • at 70 °C | 703 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | M |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 240 V | 85 kA |


| | | | |
|--|------------------------------|------------|----------------------------------|
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 55 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 55 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 36 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 25 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 | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 55 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 55 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 36 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 19 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 | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 121 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 121 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 76 kA | | |
| <ul style="list-style-type: none"> • at 415 V • at 440 V • at 500 V • at 690 V | 53 kA | | |
| Adjustable parameters | | | |
| Adjustable response value current / I _g min. | 320 A | | |
| Adjustable response value current / I _g min. | 800 A | | |
| Adjustable response value current / I _g min. | 0.5 | | |
| Adjustable response value current / I _g min. | 17 | | |
| Adjustable response value current / I _i min. | 1 200 A | | |
| Adjustable response value current / I _i max. | 8 000 A | | |
| Ground fault protection can be switched ON/OFF | No | | |
| Ground fault protection / tripping switchable / I _{2t} =ON/OFF | Yes | | |
| Adjustable response value current / I _g min. | 160 A | | |
| Adjustable response value current / I _g max. | 800 A | | |
| Adjustable response value current / t _g min. | 0.1 s | | |
| Adjustable response value current / I _g min. | 0.3 s | | |
| Mechanical Design | | | |
| height [in] | 12.6 in | | |
| Height | 320 mm | | |
| width [in] | 8.3 in | | |
| Width | 210 mm | | |
| depth [in] | 4.7 in | | |
| depth | 120 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. | 20 x 4 mm | | |
| Auxiliary circuit | | | |
| number of CO contacts / for auxiliary contacts | 0 | | |
| 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](#)



EG-Konf.

| Test Certificates | | Shipping Approval | | other | |
|-------------------------------|-------------------------------|--|--|--|-------------------------------|
| Miscellaneous | Miscellaneous |  LRS | CCS / China Classification Society | 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=3VA2580-5HM32-0AA0>

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

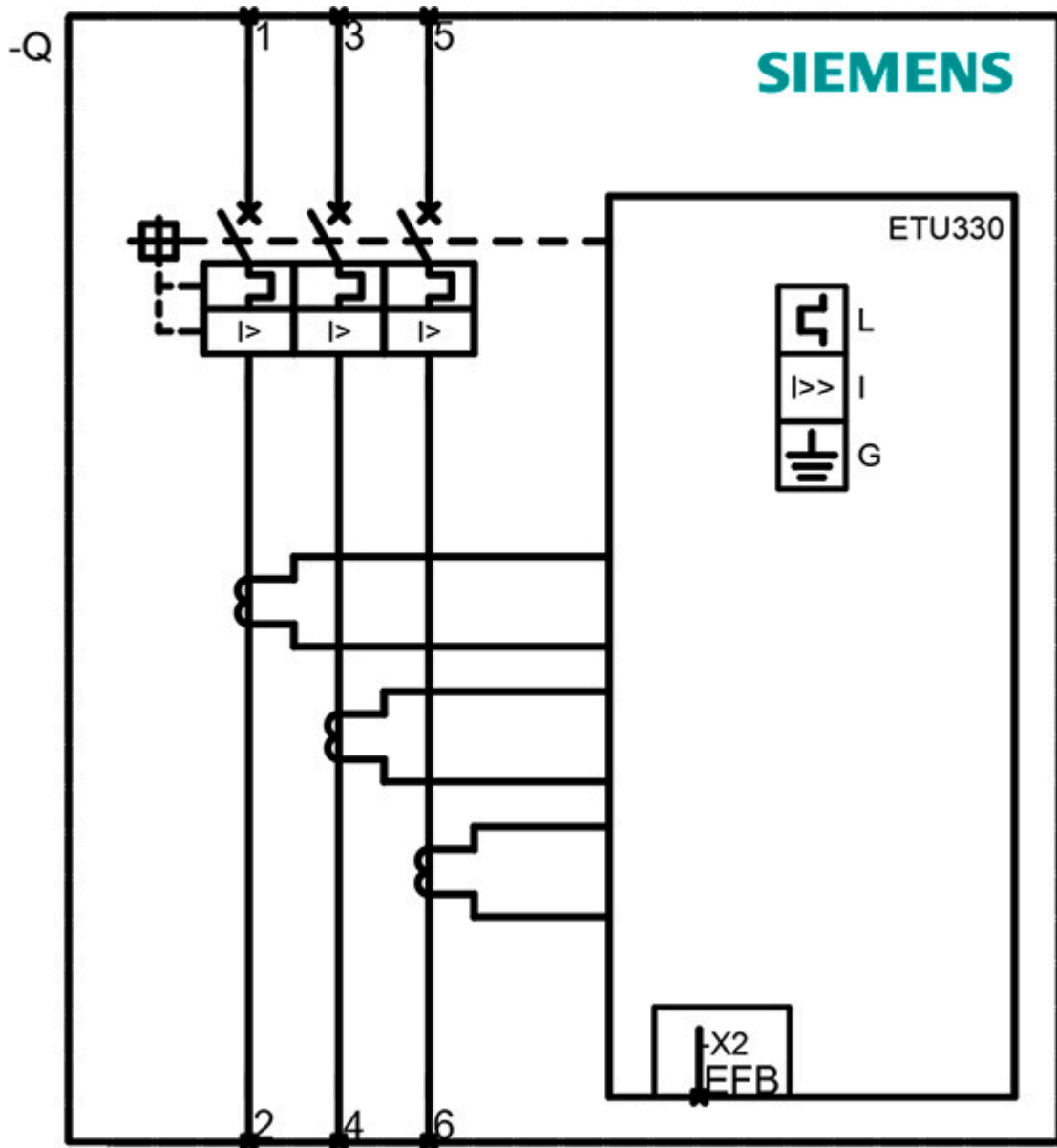
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-5HM32-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-5HM32-0AA0

Tender specifications

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



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