3VA5280-5EC36-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=80A overload protection Ir=80A fixed short-circuit protection li=5...10 x In cable connection on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MFAS |
| Product version | System protection |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HID Type) | No |
| design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) | No |
| design of the overcurrent release | TM230 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| General technical data | |
| rated insulation voltage Ui | 800 V |
| Max. rated operational voltage Ue with DC | 750 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 20 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 6.8 W |
| mechanical service life (switching cycles) / typical | 20 000 |
| 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 | 4 000 |
| electrical endurance (switching cycles) / at 480 V | 8 000 |
| electrical endurance (switching cycles) / at 600 V | 4 000 |
| Neutral conductors / upgradeable/retrofittable | No |
| ground-fault monitoring version | without |
| product function | |
| communication function | No |
| other measurement function | No |
| Net Weight | 2.308 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 80 A |
| ● at 45 °C | 80 A |
| ● at 50 °C | 80 A |

| ● at 55 °C | 77.6 A |
|--|--|
| ● at 60 °C | 76 A |
| • at 65 °C | 73.6 A |
| ● at 70 °C | 70.4 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 |
| • at 415 V | 55 kA |
| • at 690 V | 7 kA |
| breaking capacity operating short-circuit current (Ics) | |
| • at 240 V | 85 kA |
| • at 415 V | 55 kA |
| • at 690 V | 7 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 187 kA |
| • at 415 V | 121 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 |
| Switching capacity according to UL 489 | |
| breaking capacity current | |
| • at 240 V | 85 kA |
| • at 480 V | 35 kA |
| ● at 600 V | 18 kA |
| Adjustable parameters | |
| Adjustable response value current / lg min. | 80 A |
| Adjustable response value current / lg min. | 80 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
| Mechanical Design | |
| height [in] | 7.28 in |
| Height | 185 mm |
| width [in] | 4.13 in |
| Width | 105 mm |
| depth [in] | 3.27 in |
| depth | 83 mm |
| Connections | |
| arrangement of electrical connectors / for main current | Front connection |
| circuit | Tront connection |
| type of electrical connection / for main current circuit | circular conductor terminal on both sides |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6 AWG - 350 kcmil) |
| Auxiliary circuit | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| • trip indicator | No |
| · | 0 |
| number of CO contacts / for auxiliary contacts | |
| number of CO contacts / for auxiliary contacts Accessories | |
| Accessories | Yes |
| Accessories product extension / optional / motor drive | |
| Accessories product extension / optional / motor drive Environmental conditions | Yes |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front | |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature | Yes IP40 |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum | Yes IP40 -25 °C |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum | Yes IP40 -25 °C 70 °C |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum | Yes IP40 -25 °C 70 °C -40 °C |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature | Yes IP40 -25 °C 70 °C |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum | Yes IP40 -25 °C 70 °C -40 °C |

General Product Approval

EMC

Declaration of Conformity





Confirmation







Declaration of Conformity

Marine / Shipping

other





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=3VA5280-5EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5280-5EC36-0AA0

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

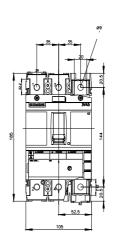
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5280-5EC36-0AA0

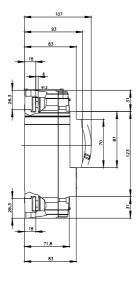
CAx-Online-Generator

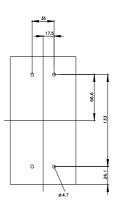
http://www.siemens.com/cax

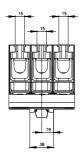
Tender specifications

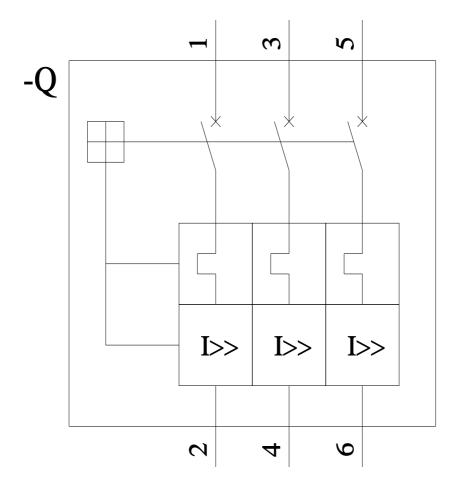
http://www.siemens.com/specifications

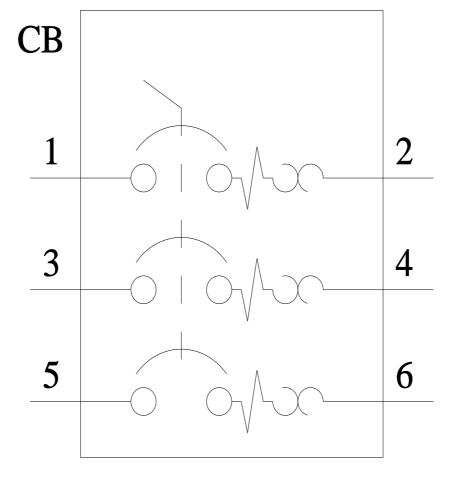












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