3VA5220-6ED32-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=200A overload protection Ir=200A fixed short-circuit protection li=10 x In nut keeper kit on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HFAS |
| 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 | TM210 |
| 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 | 43 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 14.17 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 | 2.192 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 200 A |
| ● at 45 °C | 194 A |
| ● at 50 °C | 189 A |

| -4.55.90 | 400 A |
|---|--|
| • at 55 °C | 183 A |
| • at 60 °C | 178 A |
| • at 65 °C | 172 A |
| • at 70 °C | 167 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | Н |
| breaking capacity maximum short-circuit current (Icu) | 400.1.4 |
| • at 240 V | 100 kA |
| • at 415 V | 70 kA |
| • at 690 V | 10 kA |
| breaking capacity operating short-circuit current (Ics) | |
| • at 240 V | 100 kA |
| ● at 415 V | 70 kA |
| • at 690 V | 10 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 220 kA |
| ● at 415 V | 154 kA |
| ● at 690 V | 17 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 | 100 kA |
| • at 480 V | 65 kA |
| ● at 600 V | 25 kA |
| Adjustable parameters | |
| Adjustable response value current / lg min. | 200 A |
| Adjustable response value current / lg min. | 200 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
| Mechanical Design | 110 |
| height [in] | 7.28 in |
| Height | 185 mm |
| | 4.13 in |
| width [in] Width | 4.13 III 105 mm |
| | 3.27 in |
| depth [in] | 83 mm |
| depth | 83 |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Front connection |
| type of electrical connection / for main current circuit | nut keeper kit on both ends |
| 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 mm |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | silver |
| Auxiliary circuit | |
| product component | N. |
| undervoltage release | No |
| voltage trigger | No |
| • trip indicator | No - |
| 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
 during storage / maximum
 40 °C
 80 °C

Certificates

reference code / according to IEC 81346-2 Q

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=3VA5220-6ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-6ED32-0AA0

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

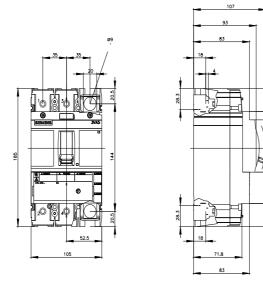
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-6ED32-0AA0

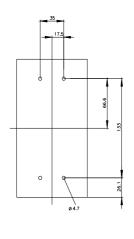
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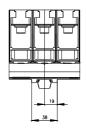
http://www.siemens.com/cax

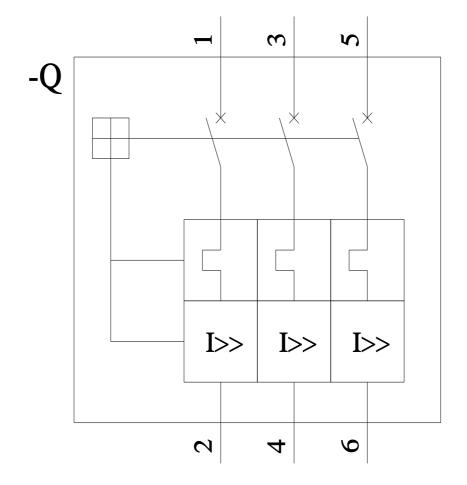
Tender specifications

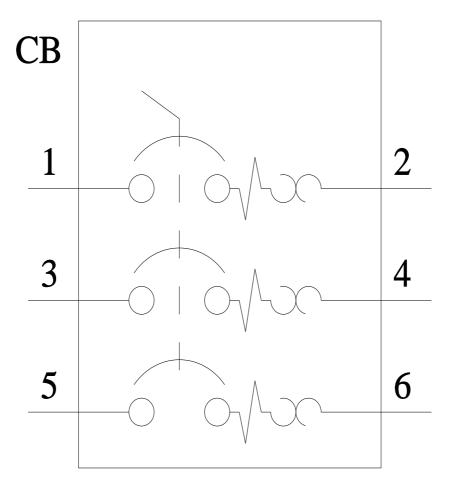
http://www.siemens.com/specifications











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