SIEMENS

Data sheet

3VA2040-7HN32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN BUSBAR CONNECTION

| Model | | |
|---|---|-----------------------------|
| product brand name | | SENTRON |
| Product designation | | Molded case circuit breaker |
| Design of the product | | Line protection |
| Product variations | | Selective Applications |
| Ground fault monitoring version | | Without |
| Design of the auxiliary release | | without auxiliaryrelease |
| Design of the auxiliary switch | | Without |
| Design of the operating mechanism | | toggle handle |
| Type of the driving mechanism / motor drive | | No |
| Design of the overcurrent release | | ETU350 |
| General technical data | | |
| Number of poles | | 3 |
| Trip class / of the L-trip / with I2t characteristic / initial value | | 0.5 |
| Trip class / of the L-trip / with I2t characteristic / Full- scale value | | 17 |
| Electrical endurance (switching cycles) | | |
| • at AC-1 / at 380/415 V / at 50/60 Hz | | 12 000 |
| circuit-breaker / Design | | 3VA |
| Mechanical service life (switching cycles) / typical | | 20 000 |
| Voltage | | |
| Insulation voltage / Rated value | V | 800 |
| Protection class | | |

| Decker (free shares ID | _ | 10.40 |
|---|---|-------------------|
| Protection class IP | _ | IP40 |
| Protection class IP / on the front | - | IP40 |
| Protective function of the overcurrent release | | LSI |
| Switching capacity | | |
| Switching capacity class of the circuit breaker | | C |
| Dissipation | | |
| Active power loss | | |
| ● maximum | W | 2.2 |
| Electricity | | |
| Continuous current / Rated value / maximum | А | 100 |
| Continuous current / Rated value | А | 40 |
| Adjustable response value current / of the | A | 12 |
| instantaneous short-circuit release / initial value | | |
| Main circuit | | |
| Operating voltage | | |
| • with AC / at 50/60 Hz / Rated value | V | 690 |
| Operating current | _ | |
| ● at 40 °C / Rated value | А | 40 |
| ● at 50 °C / Rated value | А | 40 |
| ● at 60 °C / Rated value | А | 40 |
| ● at 65 °C / Rated value | А | 40 |
| ● at 70 °C / Rated value | А | 40 |
| Auxiliary circuit | | |
| Number of NC contacts / for auxiliary contacts | | 0 |
| Number of NO contacts / for auxiliary contacts | | 0 |
| - | | |
| Suitability Suitability for use | _ | system protection |
| | | |
| Adjustable parameters | | |
| Adjustable response value current | | |
| of I-trip / Full-scale value | А | 12 |
| of the short-time delayed short-circuit release / initial value | A | 1.5 |
| of the short-time delayed short-circuit release / Full-scale value | A | 10 |
| Adjustable delay time | | |
| • of S-trip / with I2t characteristic / initial value | S | 0.02 |
| of S-trip / with I2t characteristic / Full-scale value | S | 0.4 |
| Adjustable response value current / of the current- dependent overload release / initial value | A | 0.4 |
| | | |

| Product details | | |
|---|----|---------------------------|
| Product component | | |
| Trip indicator | | No |
| ● display | | No |
| undervoltage release | | No |
| Product property | | |
| for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof | | No |
| Product expansion / optional / motor drive | | Yes |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | No |
| Phase failure detection | | No |
| other measurement function | | No |
| Accessories | | |
| Manufacturer article number / of the supplied basic switch | | <u>3VA2040-7HN32-0AA0</u> |
| Short circuit | | |
| Operational short-circuit current breaking capacity | | |
| (Ics) | | |
| • at 240 V / Rated value | kA | 150 |
| • at 415 V / Rated value | kA | 110 |
| • at 440 V / Rated value | kA | 110 |
| • at 500 V / Rated value | kA | 85 |
| • at 690 V / Rated value | kA | 2 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / Rated value | kA | 150 |
| ● at 415 V / Rated value | kA | 110 |
| at 440 V / Rated value | kA | 110 |
| • at 500 V / Rated value | kA | 85 |
| • at 690 V / Rated value | kA | 2 |
| Short-circuit current making capacity (Icm) | | |
| • at 240 V / Rated value | kA | 330 |
| • at 415 V / Rated value | kA | 242 |
| • at 440 V / Rated value | kA | 242 |
| ● at 500 V / Rated value | kA | 187 |
| • at 690 V / Rated value | kA | 3 |
| Connections | | |

| Acchanical Design Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature -25 • during operation / minimum °C -25 • during operation / maximum °C -25 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q | 25 x 8.5 Lug terminal mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C 70 °C 40 °C 80 EMC Q Q Q Declaration of Conformity Shipping Approval | 25 x 8.5 Lug terminal 181 105 107 | | |
|---|--|---|----------------|----------|
| • for flat-bar terminal connection / maximum 25 x 8.5 Type of electrical connection / for main current circuit Lug terminal Aechanical Design mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting environmental conditions fixed mounting Amblent temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C 40 • during storage / maximum °C 80 | 25 x 8.5 Lug terminal mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80 Peclaration of Conformity Q Q Q Conformity Approval | 25 x 8.5 Lug terminal 181 105 107 | 1 | |
| Type of electrical connection / for main current circuit Lug terminal Aechanical Design mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking • acc. to DIN EN 61346-2 Q | Imm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C 70 °C 40 °C 80 | Lug terminal 181 105 107 | | |
| Acchanical Design Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature -25 • during operation / minimum °C -25 • during operation / maximum °C -25 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q | mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C -40 °C -40 °C 80 | 181 105 107 | l | |
| Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions fixed mounting Ambient temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C -40 • during storage / minimum °C 80 Certificates Equipment marking Q | mm 105 mm 107 fixed mounting fixed mounting °C -25 °C 70 °C -40 °C 80 Q | 105 107 | | |
| Widthmm105Depthmm107Mounting typefixed mountingEnvironmental conditionsfixed mountingEnvironmental conditions°C-25Ambient temperature • during operation / minimum°C70• during operation / maximum°C70• during storage / minimum°C80• curtificatesEquipment marking • acc. to DIN EN 61346-2Q | mm 105 mm 107 fixed mounting fixed mounting °C -25 °C 70 °C 70 °C -40 °C 80 | 105 107 | | |
| Depthmm107Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / minimum°C• during storage / maximum°C• during stora | mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80 Q Q Q EMC Declaration of Conformity Shipping Approval €ther € € € | 107 | | |
| Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / maximum°C• during storage / maxi | fixed mounting °C -25 °C 70 °C -40 °C 80 | | | |
| Environmental conditions Ambient temperature °C -25 • during operation / minimum °C 70 • during operation / maximum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80 | °C -25 °C 70 °C -40 °C 80 °C 80 Q Q Q EMC Declaration of Shipping Approval Conformity Approval | fixed mount | | |
| Ambient temperature °C -25 • during operation / minimum °C 70 • during operation / maximum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q | °C 70 °C -40 °C 80 | lixed mountil | ng | |
| • during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80• certificates | °C 70 °C -40 °C 80 | | | |
| during operation / maximum during operation / maximum °C 70 °C -40 °C 80 Certificates Equipment marking acc. to DIN EN 61346-2 Q | °C 70 °C -40 °C 80 | | | |
| during storage / minimum during storage / maximum °C -40 °C 80 Certificates Equipment marking acc. to DIN EN 61346-2 Q | °C -40 °C 80 Q Q Q EMC Declaration of Shipping Approval Other € € € € | -25 | | |
| • during storage / maximum • during storage / maximum • C 80 Certificates Equipment marking • acc. to DIN EN 61346-2 Q | °C 80 Q Q Q C O C O C O C O C O C O C O C O C | 70 | | |
| Certificates Equipment marking • acc. to DIN EN 61346-2 Q | Q Q Q EMC Declaration of Conformity Approval other C C C C | -40 | | |
| Equipment marking Q • acc. to DIN EN 61346-2 Q | Q EMC Declaration of Conformity Shipping Approval other Conformity Approval | 80 | | |
| • acc. to DIN EN 61346-2 Q | Q Declaration of Conformity Shipping Approval other Conformity Approval | | | |
| | Q Declaration of Conformity Shipping Approval other Conformity Approval | | | |
| | EMC Declaration of Conformity Approval | Q | | |
| • acc. to DIN EN 81346-2 Q | Conformity Approval other Cefee Other Image: Cefee | Q | | |
| General Product Approval EMC Declaration of Shipping | other CE | MC | Declaration of | Shipping |
| Conformity Approva | | | Conformity | Approval |
| (\mathfrak{m}) \mathcal{M}_{E} $[\mathrm{H}]$ (\mathfrak{m}) (\mathfrak{m}) | EG-KONT. DNV | other | EG-Konf. | |
| Shipping other | | | | |

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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20407HN320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407HN320AA0/all

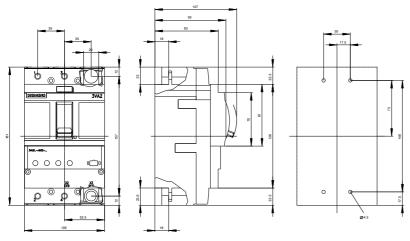
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20407HN320AA0

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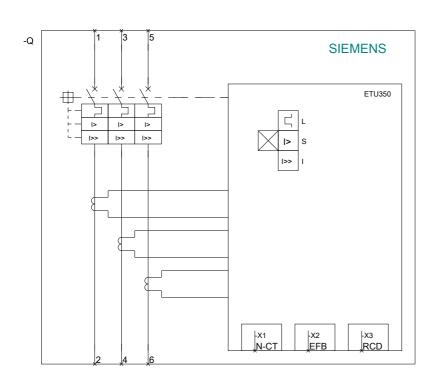
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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