SIEMENS

Data sheet

3VA2163-6KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) 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 | | ETU850 | | |
| General technical data | | | | |
| Number of poles | | 4 | | |
| 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 | | 25 | | |
| 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 | | | | |

| Protection class IP | | IP40 | | |
|--|---|-------------------|--|--|
| Protection class IP / on the front | | IP40 | | |
| Protective function of the overcurrent release | | LSI | | |
| | | 231 | | |
| Switching capacity | | | | |
| Switching capacity class of the circuit breaker | | Н | | |
| Dissipation | | | | |
| Active power loss | | | | |
| • maximum | W | 4 | | |
| Electricity | | | | |
| Continuous current / Rated value / maximum | А | 160 | | |
| Continuous current / Rated value | А | 63 | | |
| Adjustable response value current / of the | А | 1.5 | | |
| 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 | 63 | | |
| ● at 50 °C / Rated value | А | 63 | | |
| ● at 60 °C / Rated value | А | 63 | | |
| ● at 65 °C / Rated value | А | 63 | | |
| • at 70 °C / Rated value | А | 63 | | |
| Auxiliary circuit | _ | | | |
| Number of NC contacts / for auxiliary contacts | _ | 0 | | |
| Number of NO contacts / for auxiliary contacts | | 0 | | |
| | | | | |
| Suitability | _ | austom protostion | | |
| 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 | 0.6 | | |
| of the short-time delayed short-circuit release / Full-scale value | A | 10 | | |
| of S-trip / with standard characteristic / initial value | A | 0.6 | | |
| of S-trip / with standard characteristic / Full- scale value | A | 10 | | |
| Adjustable delay time | | | | |
| • of S-trip / with I2t characteristic / initial value | s | 0.05 | | |

| of S-trip / with I2t characteristic / Full-scale value | S | 0.5 |
|---|----|--------------------|
| of S-trip / with standard characteristic / initial value | S | 0.05 |
| of S-trip / with standard characteristic / Full- scale value | S | 0.5 |
| Adjustable response value current / of the current- dependent overload release / initial value | A | 0.4 |
| Product details | | |
| Product component | | |
| Trip indicator | | No |
| • display | | Yes |
| undervoltage release | | No |
| Product property | | |
| for neutral conductors / | | No |
| upgradeable/retrofittable / Short-circuit and overload proof | | |
| Product expansion / optional / motor drive | | Yes |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | Yes |
| Phase failure detection | | No |
| other measurement function | | Yes |
| Accessories | | |
| Manufacturer article number / of the supplied basic | | 3VA2163-6KP42-0AA0 |
| switch | | |
| Short circuit | | |
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / Rated value | kA | 110 |
| • at 415 V / Rated value | kA | 85 |
| • at 440 V / Rated value | kA | 85 |
| • at 500 V / Rated value | kA | 55 |
| • at 690 V / Rated value | kA | 2.5 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / Rated value | kA | 110 |
| • at 415 V / Rated value | kA | 85 |
| • at 440 V / Rated value | kA | 85 |
| ● at 500 V / Rated value | kA | 55 |
| • at 690 V / Rated value | kA | 2.5 |
| Short-circuit current making capacity (Icm) | | |
| | | |

| • at 240 V / Rated value | kA | 242 |
|--------------------------|----|------|
| • at 415 V / Rated value | kA | 187 |
| • at 440 V / Rated value | kA | 187 |
| • at 500 V / Rated value | kA | 121 |
| • at 690 V / Rated value | kA | 3.75 |

| Connections | | | | |
|--|----|----------------|--|--|
| Arrangement of electrical connectors / for main current circuit | | Front terminal | | |
| Type of connectable conductor cross-section | | | | |
| for flat-bar terminal connection / minimum | | 13 x 1 mm | | |
| for flat-bar terminal connection / maximum | | 25 x 8.5 | | |
| Type of electrical connection / for main current circuit | | Lug terminal | | |
| Mechanical Design | | | | |
| Height | mm | 181 | | |
| Width | mm | 140 | | |

| Depth | mm | 107 |
|---------------|----|----------------|
| Mounting type | | fixed mounting |

| Environmental conditions | | | |
|--|----|-----|--|
| Ambient temperature | | | |
| during operation / minimum | °C | -25 | |
| during operation / maximum | °C | 70 | |
| during storage / minimum | °C | -40 | |
| during storage / maximum | °C | 80 | |

 Equipment marking
 Q

 • acc. to DIN EN 61346-2
 Q

 • acc. to DIN EN 81346-2
 Q

 General Product Approval
 EMC
 Declaration of Conformity
 Shipping Approval

| | | | | Contenting | , 46101a |
|----------------------|---------|-----|-------|------------|-------------|
| | UDE VDE | EHC | other | EG-Konf. | DINV DNV |
| Shipping Approval | other | | | | |
| GL | other | | | | |

GL

Further information

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/3VA21636KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21636KP420AA0/all

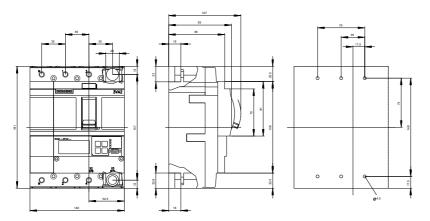
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21636KP420AA0

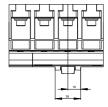
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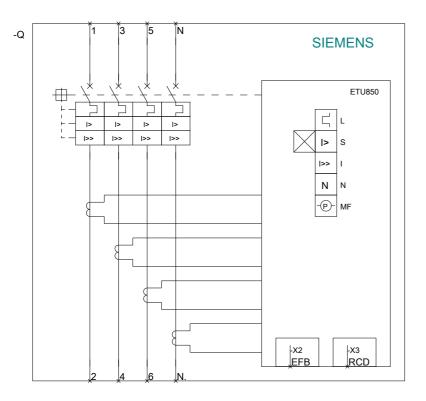
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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