

Order code: IA250XXXBAA

Automatic Transfer Switch Controller

Datasheet

Product description

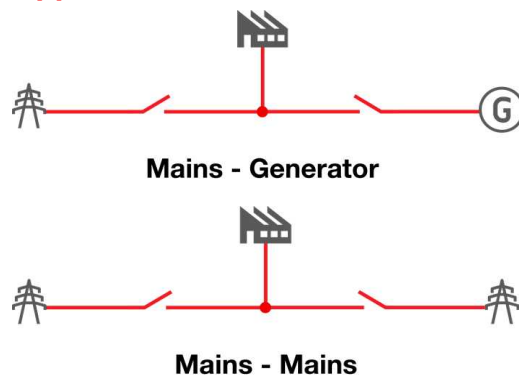
- > Automatic Transfer Switch (ATS) controller for stand-by and prime-power applications
- > All-in-one intuitive & powerful PC tool for configuration, monitoring and control locally or remotely
- > Easy to install, configure and use

Key features

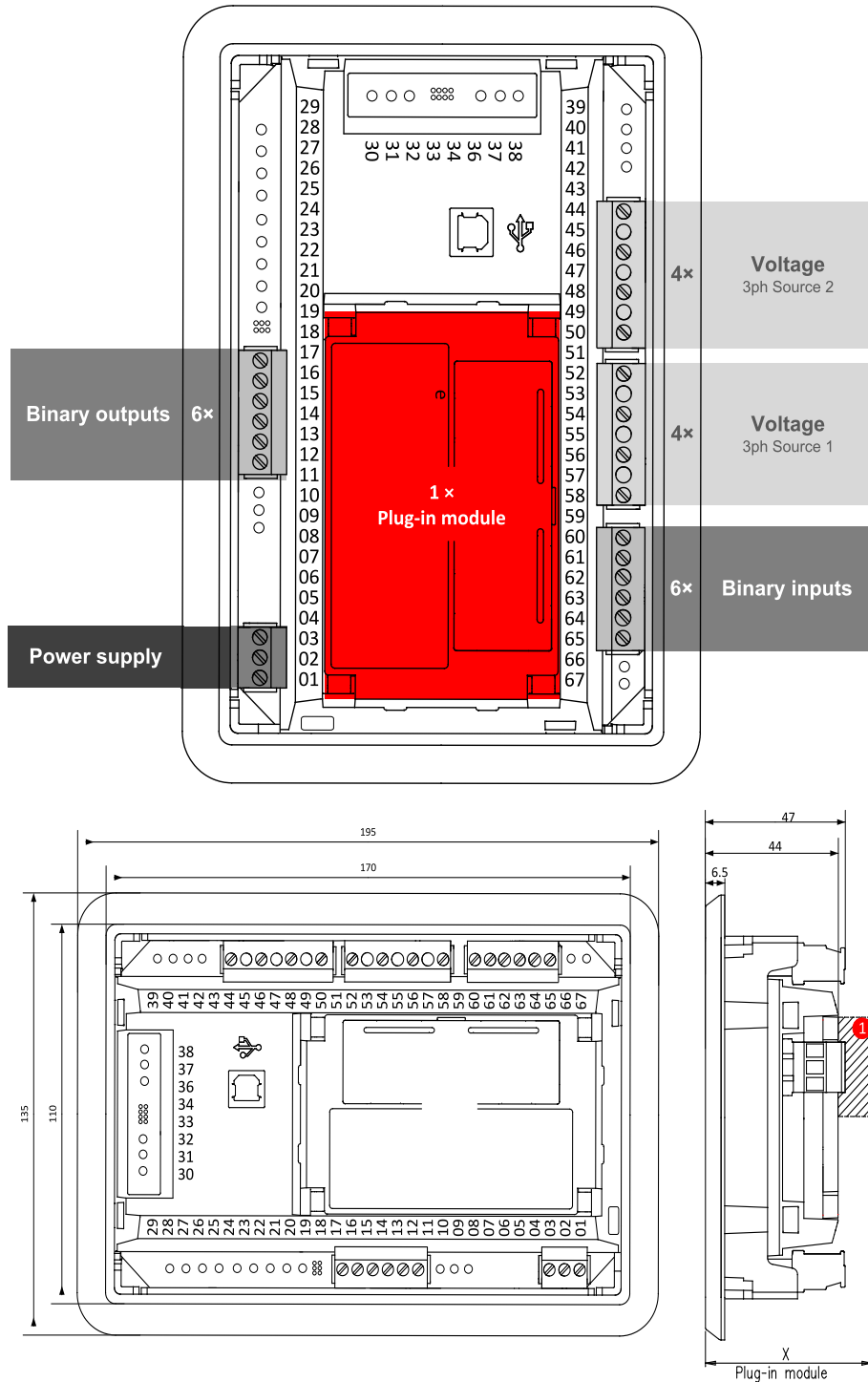
- > Mains-To-Mains or Mains-To-Gen application
- > 6 binary outputs, 6 binary inputs
- > Connection and configuration in PC tool InteliConfig
- > Power over USB for controller configuration
- > RTC with battery back-up (full calendar)
- > Slot for extension plug-in module (support of 4G, BI/BO, Ethernet)
- > Full remote communications support (AirGate 2.0, WSV, InteliSCADA)
- > Internet access using Ethernet/4G Modbus TCP/RTU, SNMP v1/v2c
- > Active SMS and emails
- > Cyber security improvement, Firewall
- > Modbus register mapping possibility
- > Elevator switch, Geo-Fencing

- > Remote display support
- > Detailed history log with up to 150 records
- > User setpoints and protections
- > True RMS measurement
- > Multi-purpose scheduler
- > User Access Management
- > 5 languages in the controller & Translator functionality
- > Cut-out: 172 × 112 mm

Application overview



Dimensions, terminals and mounting



1 Plug-in module

Note: Dimension "X" depends on plug-in module

Note: Dimensions are in millimeters.

Note: The final depth of the controller depends on the selected plug-in module – it can vary between 47 mm and "X" mm. Mind also the size of connectors and cables (e.g. in case of RS232 connector, add about 60 mm more for standard RS232 connector and cable).

Note: The controller is to be mounted into panel doors as a standalone unit using provided holders. The requested cutout size is 172 × 112 mm. Use the screw holders delivered with the controller to fix the controller into the door.

Technical data

Power supply

| | |
|--|--------------------------|
| Power supply range | 8-36 VDC |
| Power consumption (without modules) | 2.0 W |
| RTC battery | Replaceable (3 V) |
| Fusing power | 4 A w/o BOUT consumption |
| Max. Power Dissipation | 4.5 W |

Operating conditions

| | |
|---|---|
| Protection degree (front panel) | IP 65 |
| Operating temperature | -20 °C to +70 °C |
| Storage temperature | -30 °C to +80 °C |
| Operating humidity | 95 % non-condensing (EN 60068-2-30) |
| Vibration | 5-25 Hz, ± 1.6 mm 25-100 Hz, a = 4 g |
| Shocks | a = 500 m/s ² |
| Surrounding air temperature rating 70 °C Suitable for pollution degree 2 | |

Voltage measurement

| | |
|---|--|
| Measurement inputs | 3ph-n S1 voltage, S2 voltage |
| Measurement range | 10-277 V AC / 10-480 V AC (EU) 10-346 V AC / 10-600 V AC (US/Canada) |
| Linear measurement and protection range | 350 V AC Ph-N 660 V AC Ph-Ph |
| Accuracy | 1 % |
| Frequency range | 30-70 Hz (accuracy 0.1 Hz) |
| Input impedance | 0.72 MΩ ph-ph , 0.36 MΩ ph-n |

Display

| | |
|------------|-----------------------------|
| Type | Build-in monochromatic 3.2" |
| Resolution | 132 × 64 px |

Communications

| | |
|------------|-------------------------------|
| USB Device | Non-isolated type B connector |
|------------|-------------------------------|

Binary inputs

| | |
|-----------------------|--|
| Number | 6 |
| Close/Open indication | 0-2 VDC close contact 6-36 VDC open contact |

Binary outputs

| | |
|--------------|--------------------------|
| Number | 6 |
| Max. current | BO1-6 = 0.5 A |
| Switching to | positive supply terminal |

Available plug-in modules

| Product | Description | Order code |
|--------------|--|-----------------------------|
| CM-RS232-485 | Dual port interface | CM223248XBX |
| CM2-4G-GPS | 4G & GPS plug-in communication module | CM24GGPSXBX |
| CM3-Ethernet | Internet / Ethernet plug-in communication module | CM3ETHERXBX |
| EM-BIO8-EFCP | 8 additional binary inputs/outputs | EM2BIO8EXBX |


Note: Controller has 1 slot for plug-in modules.

Functions and protections

Support of functions and protections as defined by ANSI (American National Standards Institute):

| Description | ANSI code | Description | ANSI code |
|---|-----------|---------------------------------|-----------|
| Master unit | 1 | Incomplete sequence relay | 48 |
| Stopping device | 5 | Breaker failure | 50BF |
| Multi-function device | 11 | AC circuit breaker | 52 |
| Starting-to-running transition contactor | 19 | Overvoltage | 59 |
| Undervoltage | 27 | Aux Over Voltage | 59X |
| Aux Battery Under Voltage | 27X | Reclosing relay | 79 |
| Annunciator | 30 | Overfrequency | 81O |
| Master sequence device | 34 | Underfrequency | 81U |
| Voltage unbalance/Negative sequence voltage | 47 | Auto selective control/transfer | 83 |

Certifications and standards

| | | |
|--|--|---|
| <ul style="list-style-type: none"> > EN 61000-6-2 > EN 61000-6-4 > EN 61010-1 > EN 60068-2-1 (-20 °C/16 h) > EN 60068-2-2 (70 °C/16 h) | <ul style="list-style-type: none"> > EN 60068-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4.0 g) > EN 60068-2-27 (a=500 m/s²; T=6 ms) > EN 60068-2-30:2005 25/55°C, RH 95%, 48hours > EN 60529 (front panel IP65, back side IP20) > UL 1008 (pending) |  |
|--|--|---|



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