

Energy Meter

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|--------------------------------------|---|---|------------|--|
| Template Category | Electrical Energy Meter | | | |
| Template Version | d | | | |
| Category Description | Device for measuring quantity of energy use | | | |
| Classification System | | | | |
| Classification | Three-phase energy meter with M-Bus interface | | | |
| Suitability for Use | Consultation - draft use only | | | |
| Template Custodian | CIBSE | | | |
| Information Category | Parameter Name | Value | Units | Notes |
| Manufacturer Data | | | | |
| Specifications | Manufacturer | Saia-Burgess Controls AG | Text | |
| Specifications | Manufacturer Website | http://www.saia-pcd.com | URL | |
| Specifications | Product Range | Energy meters | Text | |
| Specifications | Product Model Number | ALE3B5FM00C3A00 | Text | Or Code |
| Specifications | CE Approval | Yes | Text | Number, Yes, No |
| Specifications | Product Literature | http://www.sbc-support.com | URL | |
| Specifications | Features | Three-phase two-way energy meter with LCD display - M-Bus interface, - I _{max} = 65 A - display of active power, voltage and current according to MID directive | Text | Free text to describe product |
| Construction Data | | | | |
| Specifications | Type | Plastic encased electronic device | Text | This is a COBie field, other fields will be required in final PDTs |
| Specifications | Mounting | 35 mm DIN hat rail | Text | This is a COBie field, other fields will be required in final PDTs |
| Specifications | Shape | Rectangle | Text | This is a COBie field, other fields will be required in final PDTs |
| Specifications | Material | Housing lower part: Anjalon PC-J-150 GF30 Housing upper part: Lexan 940A-215155 | Text | This is a COBie field, other fields will be required in final PDTs |
| Specifications | Colour | Housing lower part: Light grey Housing upper part: blue transparent | Text | This is a COBie field, other fields will be required in final PDTs |
| Specifications | Finish | Matt | Text | This is a COBie field, other fields will be required in final PDTs |
| Application | | | | |
| Specifications | Read out type | digital | Text | |
| Specifications | Remote reading | Y | Y/N | |
| Specifications | Reference Standard | EN50470-3, IEC62053-21 | Text | |
| Specifications | Certifications | MID | Text | European Union's Measurement Instrument Directive (MID) |
| Specifications | Measurement type | Direct, bidirectional | Text | |
| Specifications | Interface for remote reading | M-Bus | Text | |
| Dimensional Data | | | | |
| Specifications | Overall Length | 82.00 | mm | Or Diameter. Minimum and maximum lengths available |
| Specifications | Overall Width | 70.00 | mm | Minimum and maximum widths available |
| Specifications | Overall Height | 62.00 | mm | Minimum and maximum heights available |
| Specifications | Gross Weight | 0.21 | kg | Equates to Operating Weight |
| Specifications | Shipping Weight | 0.23 | kg | Equates to dry weight of unit plus packaging allowance |
| Specifications | Access Clearance Top | 20.00 | mm | Access required for maintenance of this item |
| Specifications | Access Clearance Bottom | 20.00 | mm | Access required for maintenance of this item |
| Specifications | Access Clearance Left | 0.00 | mm | Access required for maintenance of this item |
| Specifications | Access Clearance Right | 0.00 | mm | Access required for maintenance of this item |
| Specifications | Access Clearance Front | 0.00 | mm | Access required for maintenance of this item |
| Specifications | Access Clearance Rear | 0.00 | mm | Access required for maintenance of this item |
| Performance Data | | | | |
| Specifications | Reference Current | 10 | A | |
| Specifications | Minimum Current | 0.04 | A | |
| Specifications | Maximum Current | 65 | A | |
| Specifications | Accuracy | 1 | Percentage | Class B = 1% |
| Specifications | Ambient Operation Limits Temperature | -25...+55 °C | Degrees C | To be entered as a range value. i.e. -10,+40 |
| Specifications | Ambient Operating Limits Humidity | 5...75% r.H. | Percentage | To be entered as a range value. i.e. 0,90 |
| Electrical Data (if required) | | | | |
| Specifications | Battery Supply | N | Y/N | |
| Specifications | Battery Type | N/A | Text | e.g. Alkaline, Lithium Ion Rechargeable |
| Specifications | Incoming Supply Electrical Voltage | 230 | Volts | |
| Specifications | Incoming Supply Phase | 3 | Number | 1,3 |
| Specifications | Incoming Supply Electrical Frequency | 50 Hz | Hertz | eg. N/A, DC, 50,60, Other, UserDefined |
| Specifications | Enclosure Rating | IP51 | Text | IP rating |
| Specifications | Maximum Power Consumption | 0.4 | VA | |
| Specifications | Connection Size - main circuit | 16 | mm2 | |
| Specifications | Connection Size - communication | 2.5 | mm2 | |
| Controls | | | | |
| Specifications | Meter range | 00'000,00...99'999,99 100'000,0...999'999,9 | Text | Counting from ... to |
| Specifications | Display - digits | 7 | Number | Count of digits |
| Specifications | Display - size | 6 | Number | Height |
| Specifications | Pulses per kWh | 1000 | Number | Pulses showed at the display |
| Sustainability | | | | |
| Sustainable Material BREEAM etc | Embodied Carbon | | kgCO2 | AWAITING INDUSTRY STANDARD |
| Sustainable Material BREEAM etc | Life Cycle Analysis | | Number | AWAITING INDUSTRY STANDARD |
| Sustainable Material BREEAM etc | Location of Manufacturer | 46° 55' 31.28" North, 7° 6' 51.53" East | GridRef | AWAITING INDUSTRY STANDARD |
| Sustainable Material BREEAM etc | Green Guide for Specification | | Text | AWAITING INDUSTRY STANDARD |
| Sustainable Material BREEAM etc | Environmental Product Declaration | | Text | 3rd Party Verification or Self Verification with URL to document |
| Sustainable Material BREEAM etc | Responsible Sourcing of Materials | | Text | AWAITING INDUSTRY STANDARD |
| Sustainable Material ETL | Energy Technology List | | URL | Hyperlink to ETL webpage for product or N/A |
| Sustainable Material LEED v.4 | Responsible Extraction of Materials | | Text | AWAITING INDUSTRY STANDARD |
| Sustainable Material LEED v.4 | Material Ingredient Reporting | | Text | AWAITING INDUSTRY STANDARD |
| Sustainable Material BREEAM etc | RoHS compliant | | Y/N | |
| Sustainable Material BREEAM etc | WEE compliant | | Y/N | |
| Operations & Maintenance | | | | |
| Facilities/Asset Management | O&M Manual | https://www.sbc-support.com | URL | Hyperlink to Manufacturer O&M Data |
| Facilities/Asset Management | Daily | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Weekly | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Monthly | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Quarterly | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | 6 Monthly | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Annually | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Bespoke Timeframe | n/a | Text | Maintenance tasks or SFG2012 codes |
| Facilities/Asset Management | Maintenance Required 0-300hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 301-600hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 601-1000hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 1001-2000hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 2001-4000hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 40001-8000hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Maintenance Required 8001-12000hrs | n/a | Text | Maintenance tasks required during this time frame |
| Facilities/Asset Management | Expected Life | | Years | |
| Facilities/Asset Management | Warranty ID | 2 Year from invoice date, max. 30 month from date code. | Text | |

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