

## BM0024222

Datenblatt | Data sheet | Fiche technique

### BN ESSENTIAL Metered

| Elektrische Kenngrößen                                                                                   |                                                                                                                                                                | Electrical parameters                                                                                        |                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nennstrom / Nennspannung<br/>Frequenz</b>                                                             | 16 A / 230 V~<br>50 / 60 Hz                                                                                                                                    | <b>Rated current / rated voltage<br/>Frequency</b>                                                           | 16 A / 230 V~<br>50 / 60 Hz                                                                                                                                                         |
| Netzanschluss                                                                                            |                                                                                                                                                                | Power supply                                                                                                 |                                                                                                                                                                                     |
| <b>Zuleitung</b>                                                                                         | 3,0m   H05VV-F  <br>3G2,5mm <sup>2</sup>                                                                                                                       | <b>Supply cable</b>                                                                                          | 3,0m   H05VV-F  <br>3G2,5mm <sup>2</sup>                                                                                                                                            |
| <b>Stecker</b>                                                                                           | <b>CEE L+N+PE, 6h (230 V<br/>/ 16 A)</b>                                                                                                                       | <b>Plug</b>                                                                                                  | <b>CEE L+N+PE, 6h (230 V<br/>/ 16 A)</b>                                                                                                                                            |
| Stromausgang                                                                                             |                                                                                                                                                                | Power output                                                                                                 |                                                                                                                                                                                     |
| <b>24x IEC60320 C13</b><br>2-polig mit Schutzkontakt<br>Schwarz, ähnlich RAL 9005, 0°<br>10A 250V~, IP20 |                                                                                                                                                                | <b>24x IEC60320 C13</b><br>2-pole with earthing contact<br>Black, similar to RAL 9005, 0°<br>10A 250V~, IP20 |                                                                                                                                                                                     |
| <b>3x IEC60320 C19</b><br>2-polig mit Schutzkontakt<br>Schwarz, ähnlich RAL 9005, 90°<br>16A/250V~, IP20 |                                                                                                                                                                | <b>3x IEC60320 C19</b><br>2-pole with earthing contact<br>Black, similar to RAL 9005, 90°<br>16A/250V~, IP20 |                                                                                                                                                                                     |
| Funktionsmodule                                                                                          |                                                                                                                                                                | Function modules                                                                                             |                                                                                                                                                                                     |
| <b>Display</b><br>2,0" TFT-Display (per Software drehbar)                                                |                                                                                                                                                                | <b>Display</b><br>2,0" TFT-Display (rotatable via software)                                                  |                                                                                                                                                                                     |
| Im Betrieb tauschbarer Controller                                                                        |                                                                                                                                                                | Hot-swappable controller                                                                                     |                                                                                                                                                                                     |
| Integrierter Webserver mit Webinterface                                                                  |                                                                                                                                                                | Integrated web server with web interface                                                                     |                                                                                                                                                                                     |
| Messung                                                                                                  |                                                                                                                                                                | Measurement                                                                                                  |                                                                                                                                                                                     |
| <b>Messwerte</b>                                                                                         | - Strom (A)<br>- Spannung (V)<br>- Frequenz (Hz)<br>- Leistungsfaktor,<br>- Wirk-, Blind- und<br>Scheinleistung,<br>- Wirkenergie,<br>- Neutralleiterstrom (A) | <b>Measured Values</b>                                                                                       | - current (A)<br>- voltage (V)<br>- frequency (Hz)<br>- power factor,<br>- active, reactive and<br>apparent power<br>- active apparent energy<br>- neutral conductor<br>current (A) |
| <b>Messgenauigkeit</b>                                                                                   | ±1%                                                                                                                                                            | <b>Measurement accuracy</b>                                                                                  | ±1%                                                                                                                                                                                 |
| <b>Messung pro Phase</b>                                                                                 |                                                                                                                                                                | <b>Measurement per phase</b>                                                                                 |                                                                                                                                                                                     |

| Weitere Produkteigenschaften                                                                                                                                    |                                                                                                      | Further product attributes                                                                                                                                       |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Abmessungen</b><br>(Länge x Breite x Tiefe)                                                                                                                  | <b>1000.4 mm x 44 mm x 58.6 mm</b>                                                                   | <b>Dimensions</b><br>(Length x Width x Depth)                                                                                                                    | <b>1000,4 mm x 44 mm x 58.6 mm</b>                                                                   |
| <b>Material</b><br>Gehäuse:<br>Aluminium, eloxiert                                                                                                              |                                                                                                      | <b>Material</b><br>Housing:<br>Aluminium, anodised                                                                                                               |                                                                                                      |
| Abdeckung:<br>PA6 GF30 850°C, schwarz ähnlich RAL 9005                                                                                                          |                                                                                                      | Cover:<br>PA6 GF30 850°C, black similar to RAL 9005                                                                                                              |                                                                                                      |
| <b>Lieferumfang</b><br>1x PDU BN ESSENTIAL Metered<br>1x Montageset zur Befestigung in Serverracks                                                              |                                                                                                      | <b>Scope of delivery</b><br>1x PDU BN ESSENTIAL Metered<br>1x mounting set for mounting in serverracks                                                           |                                                                                                      |
| <b>Verpackung</b><br>Im Karton                                                                                                                                  |                                                                                                      | <b>Packaging</b><br>In carton                                                                                                                                    |                                                                                                      |
| Kommunikation                                                                                                                                                   |                                                                                                      | Communication                                                                                                                                                    |                                                                                                      |
| <b>Netzwerk-Schnittstelle</b>                                                                                                                                   | 2x 1 Gbit/s Ethernet                                                                                 | <b>Network interface</b>                                                                                                                                         | 2x 1 Gbit/s Ethernet                                                                                 |
| <b>Unterstützte Netzwerkprotokolle</b>                                                                                                                          | IPv4, IPv6, CLI, DHCP, DNS, NTP, HTTP, HTTPs, SNMPv2/v3, SNMP Trap, SMTP, SMTPS, SSH, Syslog, Telnet | <b>Supported network protocols</b>                                                                                                                               | IPv4, IPv6, CLI, DHCP, DNS, NTP, HTTP, HTTPs, SNMPv2/v3, SNMP Trap, SMTP, SMTPS, SSH, Syslog, Telnet |
| <b>USB</b>                                                                                                                                                      | 1x USB-A                                                                                             | <b>USB</b>                                                                                                                                                       | 1x USB-A                                                                                             |
| <b>Sensoren</b><br>Anschlussmöglichkeit für bis zu zwei Sensoren (separat erhältlich):<br>- Temperatur & Luftfeuchtigkeit (329.3104)<br>- Temperatur (329.3176) | 2x RJ12 für externe Sensoren                                                                         | <b>Sensors</b><br>Possibility to connect up to two external sensors (sold separately):<br>- Temperature & Humidity Sensor (329.3104)<br>- Temperature (329.3176) | 2x RJ12 for external sensors                                                                         |

| Umgebungsbedingungen                                                                                                                                                                                                                                                                                                                                      |                | Environmental conditions                                                                                                                                                                                                                                                                                                                                 |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Maximale Betriebshöhe</b>                                                                                                                                                                                                                                                                                                                              | 3000 m         | <b>Maximum Operating Elevation</b>                                                                                                                                                                                                                                                                                                                       | 3000 m         |
| <b>Umgebungstemperatur bei Montage und Nutzung</b>                                                                                                                                                                                                                                                                                                        | -5 °C – 45 °C  | <b>Ambient temperature during mounting and use</b>                                                                                                                                                                                                                                                                                                       | -5 °C – 45 °C  |
| <b>Umgebungstemperatur bei Transport und Lagerung</b>                                                                                                                                                                                                                                                                                                     | -15 °C – 65 °C | <b>Ambient temperature during transport and storage</b>                                                                                                                                                                                                                                                                                                  | -15 °C – 65 °C |
| <b>Relative Luftfeuchtigkeit (nicht kondensierend)</b>                                                                                                                                                                                                                                                                                                    | 5 – 90%        | <b>Relative humidity (non-condensing)</b>                                                                                                                                                                                                                                                                                                                | 5 – 90%        |
| <b>Schutzart</b>                                                                                                                                                                                                                                                                                                                                          | IP20           | <b>Protection type</b>                                                                                                                                                                                                                                                                                                                                   | IP20           |
| <b>Konformität</b><br>CE,<br>UKCA,<br>DIN EN IEC 62368-1: 2025,<br>DIN EN IEC 61984: 2008,<br>DIN EN IEC 60320-1: 2021,<br>DIN VDE 0620-1: 2021<br>DIN VDE 0620-2-1: 2021,<br>DIN EN IEC 61000-3-2: 2019,<br>DIN EN IEC 61000-6-2: 2019,<br>DIN EN IEC 61000-6-4: 2019,<br>DIN EN 55032: 2019 Class A/B,<br>DIN EN55035: 2020 Class A/B<br>RoHS,<br>REACH |                | <b>Compliance</b><br>CE,<br>UKCA,<br>DIN EN IEC 62368-1: 2025,<br>DIN EN IEC 61984: 2008,<br>DIN EN IEC 60320-1: 2021,<br>DIN VDE 0620-1: 2021<br>DIN VDE 0620-2-1: 2021,<br>DIN EN IEC 61000-3-2: 2019,<br>DIN EN IEC 61000-6-2: 2019,<br>DIN EN IEC 61000-6-4: 2019,<br>DIN EN 55032: 2019 Class A/B,<br>DIN EN55035: 2020 Class A/B<br>RoHS,<br>REACH |                |