Feature

- **Application** - Telecoms site energy management, data center
- **Small size** - Can be installed at the closest point, integrate in existing space-constrained installations
- **Ultra-compact design** - Consists of control unit and current sensors (with RJ12 port, split core)
- **Wide measurement range** - Max. support 60A
- **Multi circuit** - Support 45 single phase circuit or 15 three phase circuit AC measuring
- **High accuracy** - Voltage & current class 0.5s, kWh class 1.0
- **Multi network type** - 1P2W or 3P4W

Function

**Real-time measurement**
- Voltage, current, active power, reactive power, power factor, frequency

**Energy consumption**
- Active energy, reactive energy

**Alarm function**
- Overload, under load, over current, sensor fault

**Communication**
- 1RS485 port, MODBUS-RTU protocol

**Optional function**
- Temperature measur (4 channels)
- Leakage current measure (1 channel)

Typical Connection

**Compare with traditional Din rail energy meter**
- Saving 50% installation space
- Saving 50% installation hour
- Saving 50% system debug time

**Description**
- DFPM211 (● measurement point)
- Branching cabinet
- UPS
- DFUN energy meter
DFPM211 & Accessories

DFPM211-M: Main Module

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Accuracy</th>
<th>Measuring range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0.5%</td>
<td>85% ~ 120%</td>
</tr>
<tr>
<td>Current</td>
<td>0.5%</td>
<td>0-60A, 1% ~ 120%</td>
</tr>
<tr>
<td>Power factor</td>
<td>1.0%</td>
<td>-1 ~ 1</td>
</tr>
<tr>
<td>Active power</td>
<td>0.5%</td>
<td></td>
</tr>
<tr>
<td>Reactive power</td>
<td>2.0%</td>
<td>Single phase: 0 ~ ±16kW/kvar Total: 0 ~ ±48kW/kvar</td>
</tr>
<tr>
<td>Apparent power</td>
<td>2.0%</td>
<td></td>
</tr>
<tr>
<td>Active energy</td>
<td>1.0%</td>
<td>0 ~ 9999999.9 kWh</td>
</tr>
<tr>
<td>Reactive energy</td>
<td>2.0%</td>
<td>0 ~ 9999999.9 kVarh</td>
</tr>
<tr>
<td>Frequency</td>
<td>0.01</td>
<td>45 ~ 65Hz</td>
</tr>
</tbody>
</table>

CTO: Split Core Sensor

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit: mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection mode</td>
<td>Bus connection (2 x RJ12 port)</td>
</tr>
<tr>
<td>Rated current input</td>
<td>10(60)A</td>
</tr>
<tr>
<td>Installation</td>
<td>Split core</td>
</tr>
<tr>
<td>Open hole</td>
<td>Φ 9.5mm</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>28k Hz</td>
</tr>
</tbody>
</table>

Environment & Standard

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power frequency withstand voltage</td>
<td>2000VAC</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>≥100MΩ</td>
</tr>
<tr>
<td>Impulse withstand voltage</td>
<td>6kV(peak)</td>
</tr>
<tr>
<td>IP index</td>
<td>IP20</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Normal operating temperature</td>
<td>-25°C ~ 55°C</td>
</tr>
<tr>
<td>Limit temperature</td>
<td>-25°C ~ 70°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-30°C ~ 80°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>&lt;95%, non-condensing</td>
</tr>
</tbody>
</table>
Leakage current measure (1 channel)

CTO

DFPM211- M

Split Core Sensor

For example: DFPM211-M + 20pcs CTO indicates 1pcs DFPM211 main module and 20pcs CTO split core sensor.

Suitable for 1P/2W & 3P/4W

Solution

DFPM211 Measure Sensor

DFPM211 Controller

CTO

Split Core Sensor

DFPM211-M

Main Module

Order Information

<table>
<thead>
<tr>
<th>Module</th>
<th>Order code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main module</td>
<td>DFPM211- M</td>
<td>Suitable for 1P/2W &amp; 3P/4W</td>
</tr>
<tr>
<td>Measure module</td>
<td>CTO</td>
<td>Split core sensor: 10(60)A, φ9.5mm, class 1.0</td>
</tr>
<tr>
<td>Optional module</td>
<td>T</td>
<td>Temperature measur (4 channels)</td>
</tr>
<tr>
<td></td>
<td>LC</td>
<td>Leakage current measure (1 channel)</td>
</tr>
</tbody>
</table>

For example: DFPM211-M + 20pcs CTO indicates 1pcs DFPM211 main module and 20pcs CTO split core sensor.

Note:
1. Standard 30cm RJ12 line (from main module to measure module) and 6cm RJ12 line (for connect each measure module), please mention for special requirement. Max. length from main module to the end measure module is 3m.

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