ekorsys units: protection, telemanagement & communication

**cgmcosmos-2lpt**

Compact cubicle with integrated remote control equipment (Plug&Play)

Reliable innovation. Personal solutions.

www.ormazabal.com
Applications

Transformer and switching substation remote control:
- Metering of V, I, P and Q
- Detection, indication and communication of Faults
- Remote switchgear command
- Telemanagement in association with ekorsys
- Automation and remote control
- Web Server
- Maintenance (fault detection, meterings, alarms...)
- Automatic sectionaliser for line fault sections
- Earthing prevention interlock
- Automatic line transfer

Standards

Applicable standards
- IEC 60265
- IEC 62271-105
- IEC62271-102
- IEC 60255
- IEC 62271-1
- IEC 62271-200
- IEC 60265-1

Most notable features:
- Plug&Play
- Reduced height
- Directional earth fault
- Factory-installed toroidal current transformers
- Meterings without VT
- Factory-integrated RMU+RTU
- Meterings and history logs accessible from the Internet (Web server)
- Remotely configurable relays

Technical Characteristics

General

<table>
<thead>
<tr>
<th>Assigned stress [kV]</th>
<th>12/24 [L-P]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>400/630 [L-P]</td>
</tr>
<tr>
<td>Outgoing line [A]</td>
<td>400/630 [L]</td>
</tr>
<tr>
<td></td>
<td>200 [P]</td>
</tr>
<tr>
<td>Rated current</td>
<td>16/20/25 (1 s) [L-P]</td>
</tr>
<tr>
<td>duration [kA]</td>
<td>16/20 (3 s) [L-P]</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50/60 [Hz]</td>
</tr>
<tr>
<td></td>
<td>[L-P]</td>
</tr>
<tr>
<td></td>
<td>Depth [mm] 735 [Low-High base]</td>
</tr>
<tr>
<td></td>
<td>Height [mm] 1460 [Low base]</td>
</tr>
<tr>
<td></td>
<td>1900 [High base]</td>
</tr>
<tr>
<td></td>
<td>370 [Low base]</td>
</tr>
<tr>
<td></td>
<td>290 [High base]</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>370 [Low base]</td>
</tr>
<tr>
<td></td>
<td>290 [High base]</td>
</tr>
</tbody>
</table>

RTU Module

General

- AC [Vca]: 230 +/-15%
- Insulation [kV]: 10
- Consumption [W]: 100
- Output power supply voltage [Vdc]: 48 y 12
- Digital inputs: 24
- Polarised voltage [Vdc]: 30 to 80
- Digital outputs: 12
- Contacts [Vac]: 5ª / 250 / resistive

CPU

- RAM [MB]: 16
- Real time clock: hh:mm:ss:dd
- Event log: 1792
- Graphic capacity: 6 cubicles in display

Comunicaciones

- front port: RS485 (5 kV) - RJ45
- Rear port: RS232 - RJ45

Integrated Control Module

General

- AC [Vac]: 24 a 100 +/-30%
- Impedance [Ω]: 0,1
- Switched power [VA]: 750 (resistive load)
- Accuracy: 5% (minimum 20 ms)
- Time delay: 5% (minimum 20 ms)

Current inputs

- Primary phase [A]: 5 a 1200
- Earth [A]: 0,5 a 480
- Thermal/dynamic [kA]: 20 / 50

Output contact

- Voltage [Vac]: 270
- Current [A]: 5 (CA)