Grid feeding monitoring relay CM-UFD.M34M with Modbus RTU and ABB Ability™ EDCS connectivity

Increase network stability with high-performance grid and system protection, tested for DEWA DRRG standard.

Application
ABB’s CM-UFD.M34M with Modbus RTU is a multifunctional grid feeding monitoring relay that sits between the renewable energy system and the public grid. The innovative relay guarantees grid stability and prevents blackouts. If the public grid’s voltage or frequency moves out of the permitted ranges, the device uses a decoupling unit (e.g. contactor or breaker Tmax XT) to separate the renewable energy system from the public grid.

Functionality
ABB’s CM-UFD.M34M relay provides a range of monitoring functions in accordance with DEWA DRRG standard. The unit detects over- and undervoltage (10-minutes average value, voltage increase and decrease protection) as well as any changes in grid frequency (frequency increase and decrease protection). The rate of change of frequency (ROCOF) as well as vector shift monitoring can be easily configured.

Advantages
- Highly accurate measurement and setting
- Modbus RTU communication interface
- Functional safety - single fault tolerance
- Clear multiline, backlit LCD display
- Intuitive and user-friendly menu
- Event storage built in
- Pre-setting meets DEWA DRRG standard
- Type tested for DEWA DRRG standard
- Integrate the CM.UFD.M*M range into ABB Ability™ EDCS
**Services and training**

Cut installation time by up to 60%
There’s no need to learn every possible adjustment and its effects on your system – ABB’s trained staff supports your business and answers your technical questions promptly.

**Easy-to-install**

Commission & configure up to 60% faster
Simple instructions, presets for local grid feeding standards, and ABB’s intuitive menu structure make installation quicker. Commissioning and troubleshooting errors are prevented.

**Optimum interface**

Reduce downtime by up to 70%
Operate the device via LCD display or remotely with the Modbus RTU. Users are informed immediately in case of an event in the public grid. Redundant microcontrollers ensure reliable measuring values and tripping.

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The CM-UFD.M34M’s display, communication interface, pre-setting and Modbus RTU ensure that installation and configuration times are reduced by up to 60%.

![CM-UFD.M34M with Modbus RTU](image)

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**Communication interface**

The Modbus RTU enables control commands like remote tripping and convenient remote data processing. It also provides status information and actual process values.

**Pre-set acc. to DEWA DRRG standard**

In conformity with DEWA DRRG, the CM-UFD.M34M relay can be used in all low voltage plants and in medium voltage plants in the United Arab Emirates.

**Type-tested**

To ensure reliability and compliance to the local standard the CM-UFD.M34M is type tested by the third party authority TÜV Süd.

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### Ordering details

<table>
<thead>
<tr>
<th>Type</th>
<th>Rated control supply voltage</th>
<th>Measuring range</th>
<th>Order code</th>
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<tbody>
<tr>
<td>CM-UFD.M34M</td>
<td>24-240 V AC/DC</td>
<td>L-L: 0-540 V AC / L-N: 0-312 V AC</td>
<td>1SVR560731R3703</td>
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