FRAKO POWER QUALITY CONTROLLER
2019 EDITION

The reactive power control relay for maximum system reliability

Easy to install, simple to operate, automatic start-up: the FRAKO PQC offers the most appropriate control characteristic curve for every application and switches the capacitor stages in and out reliably, so that the power factor correction system is automatically adjusted to suit the prevailing power demand.

This intelligent reactive power control relay is ideal for plant designers, system installers and maintenance electricians looking to cut costs and minimize the risk of network disruptions.

Special features of the FRAKO PQC

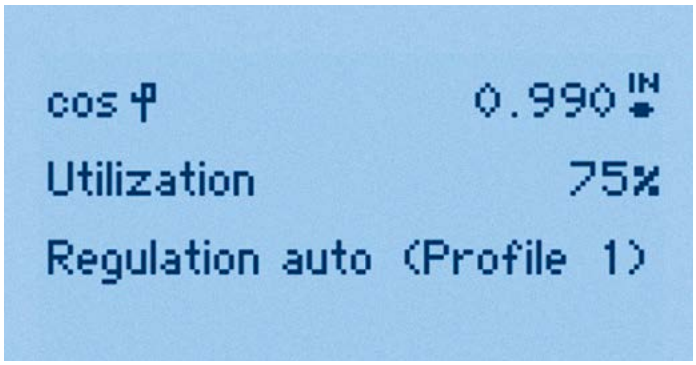
- Automatic start-up with correction of wrong connections
- Integrated monitoring of relevant system parameters
- Switchover of control characteristic curves (for special applications)
- Communication via Modbus RTU or TCP (with integrated web server)

POWER QUALITY SOLUTIONS

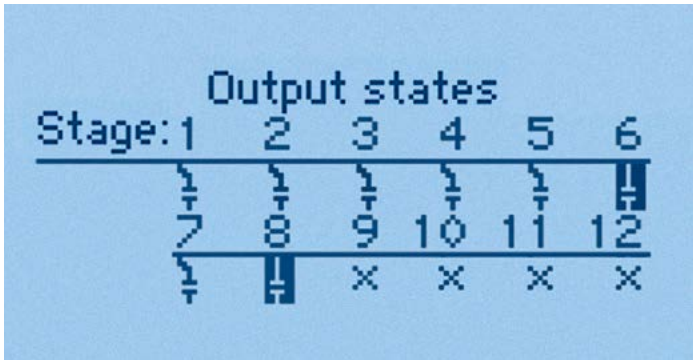
Power demand optimized reliably

You can rely on the FRAKO Power Quality Controller (PQC) to maintain the optimum ratio between active and reactive power at all times in your network.

The instrument software includes a user dialogue for the initial start-up, simplifying the installation of the FRAKO PQC and hence of the complete power factor correction system. All key information on system status can be read either on the plain language display or via the RTU and TCP communications interfaces. During operation, a self-monitoring function protects the correction system from external disturbances and informs the user in good time when maintenance is due. Users therefore enjoy maximum operational reliability for their power factor correction systems.



Control overview



Status of stages

Everything under control – for all your needs:

- Single- or 3-phase V and I measurement *
- Measurement ranges 100-690 V and 0-5 A
- V and I harmonics up to the 19th measured
- Automatic calibration and correction of any wrong connections
- Automatic identification of the connected capacitances
- Switched outputs programmable as fixed capacitor stages
- 6 or 12 stages can be switched in and out *
- Alarm output, temperature probe input *
- Temperature control *
- Modbus RTU and TCP *
- 4-quadrant operation
- Q(V) or Q(P) control curve

Monitored in plain language:

- Voltage
- Active, reactive and apparent power
- Number of switching cycles
- Current
- THDv / THDi
- V and I harmonics up to the 19th
- Switched outputs and capacitance utilization

To inform or to alert:

- Lack of corrective power
- Defective capacitor stages
- Number of switching cycles at limit
- Undervoltage
- Under-/overcurrent
- Limits for harmonics
- Temperature *

* Depending on instrument version

Do you have any questions or would you like to learn more about the potential of the FRAKO PQC? Just give us a call.

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FRAKO 95-00361/03/19/9973