**Dynamic power controller SVG for wall mounting 50 kVar**

Suitable for active dynamic compensation of inductive and capacitive reactive power and balancing of unbalanced loads. Low-feedback and low-loss operation due to 3-level topology and high clock frequency.compensation of the neutral conductor current in the 4-wire connection as well as automatic mains frequency detection.compensation strategy can be changed during operation, adjustable standby mode as well as automatic restart after power failure.

Technology: SI technology

Connection: 3-wire with / without N

Compensation power: 50 kVar

Modular expandability: unlimited

Rated voltage: 400 V (-30% / +10%)

Mains frequency: 45 - 62 Hz

Compensation modes individual for each phase:

- Inductive & capacitive reactive power (adjustable up to 1.0)

- Load balancing (phase - phase + phase - N)

Response time: <15 μs

Efficiency: > 97 %

Clock frequency: 20 kHz on average

Parameterisation & operation:

Graphical touch panel 4.3" with backlight, installation in the front of the enclosure

User interface features:

- Display of the compensation power by displaying the mains and load side.

- Visualisation of measured values, spectra and waveforms

- Operating times freely adjustable via weekly schedule

- Logbook for operating and alarm messages with time stamp

- Password-protected configuration

- Data storage via external, optional universal measuring device

- Languages: German & English

- No additional software required

Communication interfaces:

1x RS485 Modbus RTU

1x emergency stop button (EPO)

1x connection for external display

Measured value acquisition: 3-phase measurement of load current with current transformer

Current transformer: 1.5 x In / 5 A,

Accuracy class: 0.5 / 1

Input load: <0.5VA

Current transformer position: low voltage, medium voltage (parameterisable)

Current transformer and current transformer disconnector available separately.

Ambient temperature: -10 to +40°C

Derating:>45°C

Humidity: 5% to 95%, non-condensing

Installation altitude: up to 1500 m above sea level without derating

Power loss at rated current: <3

Cooling: focussed air cooling

Cooling air requirement: 790 m³ / h depending on ambient temperature

Construction: sheet steel housing for wall mounting

Cable connection: from above

Degree of protection: IP 20

Dimensions in mm (WxHxD): 500x582x191

Colour scheme: RAL 7035 grey

Weight: 35 kg

Approvals:

- CE Conformity

- DNVGL

Optionally available accessories:

Potential-free I/Os: via external module

Delivery includes:

Installation instructions, operating instructions in German.

A qualified mains analysis is recommended to determine the required compensation power.

Manufacturer: Janitza electronics GmbH

Type: SVG-LCD W 400 V 50 kVar

Art.no.: 1420028