

Thyro-Power-OKF



The rectifier construction of the production series **Thyro-Power-OKF** in principle is characterized by an electronic Thyristor-control-unit (W3C) and high-current-transformer with a secondary connected silicon diode-stack in 6-pulse rectifier-connection. All constructions and developments are made by IPS, so that the customer will get the highest possible flexibility and technical know-how. This is realized with our high degree of own manufacturing, including the IPS transformer and smoothing choke production.

Single rectifiers from:

UDC = 2 - 100V

IDC = 100 - 20.000A

Technical Data:

Mains:	3x 400V / 50Hz (worldwide mains-conditions possible)
Regulating:	current and/or voltage with <1% accuracy (stepless electronic 0...100%)
Signals:	current, voltage, status, fault (signals fault optional)
Control:	interface for external control
Ripple:	<7% at regulated full-DC-output voltage (< 5% at full range)
Rectifier connection:	6-pulse rectifier-connection (M6; M3.2; B6)
Operation mode:	100% duty cycle
Temperature:	+35°C (higher temperature conditions possible)
Detection:	phase position; phase rotation; phase loss; over current relay; mains low voltage; short-circuit detection
Degree of protection:	Tank IP54, Control cabinet IP21 (optional higher)

Options:

- Field-bus interface (Profibus; ProfiNet; Interbus-S; CAN-Bus; RS-485 etc.)
- Electronic switch of DC output polarity (reversal operation mode)
- Process control (PLC-control with Visualization and documentation in Excel)
- Smoothing devices (L and LC smoothing <1% possible)
- Ah-counter-integration
- RGB-Power-Pulse
- Special taylor made constructions

IPS-Thyro-Power-OKF means:

- High speed regulation
- High regulating accuracy
- Short-circuit management
- No mechanical wear
- Low maintenance and high reliability



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