



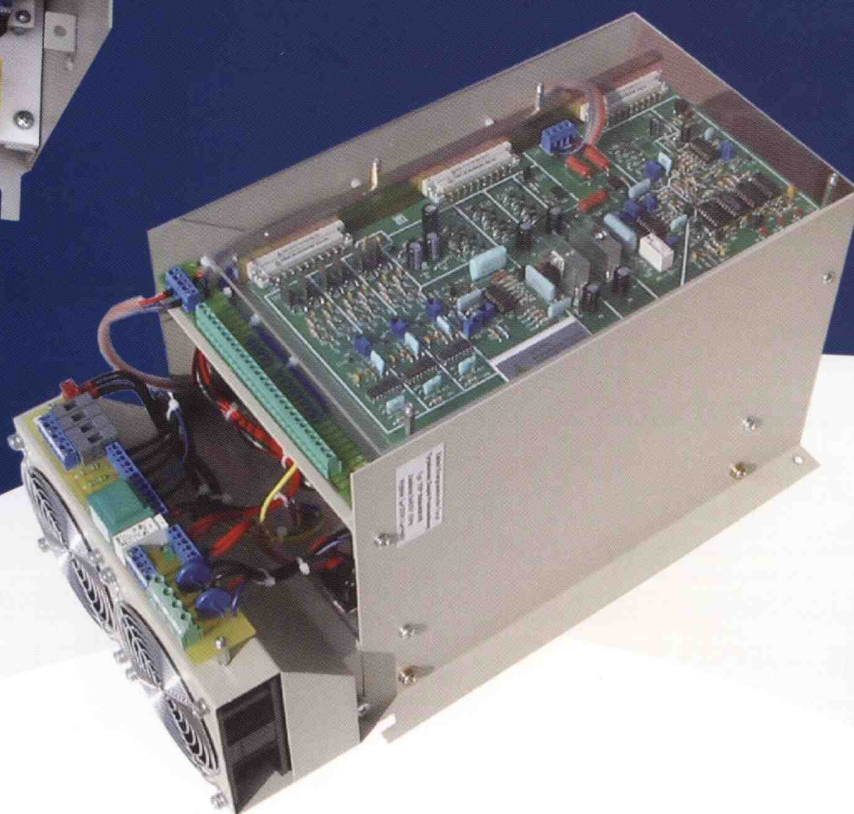
THYRISTOR
RECTIFIER
SYSTEM
Type TZP

50 - 300 A



THYRISTOR
SYSTEM
Type UT

10 - 30 A



- Smooth speed regulation of separately excited DC motors
- Speed or voltage feed-back
- Controller fully separated from power circuit
- Small casing
- Typical, tested solutions easy to work with

- Smooth speed regulation of separately excited DC motors
- Speed or voltage feed-back
- Controller fully separated from power circuit
- Operating state and critical states signalization
- Starting time adjustment
- Easy to operate
- Small casing



TECHNICAL DATA: Type UT

Type	Rated output current [A]	Rated output voltage [V]	Dimensions height x width x depth [mm]
UT 11/10	10	110	255x175x130
UT 11/15	15	110	255x175x130
UT 11/30	30	110	255x225x165
UT 12/10	10	220	255x175x130
UT 12/15	15	220	255x175x130
UT 12/30	30	220	255x225x165

Power supply	Voltage/frequency	UT 11: 230V ± 10% / 50 Hz UT 12: 400V ± 10% / 50 Hz
Excitation power supply	Two pulse diode rectifier	$I_{dhw} = 1A$
Output	Output voltage	UT 11: 0 ÷ 110V UT 12: 0 ÷ 220V
Regulator	Thyristor delay angle control	Phase controller
	Speed/Voltage stabilization	Analog PI regulator
	Current stabilization	Analog PI regulator
Control Input	Analog input	Speed / Voltage setting 0 ÷ 10V
	Digital input	Regulator blocking 24V DC
Protections	Protection of the converter	Fast fuse (BTP type)

TECHNICAL DATA: Type TZP

Type	Rated output current [A]	Rated output voltage [V]	Overcurrent for 60s. every 10 min. [A]	Dimensions height x width x depth [mm]
TZP 50A/440V	50	440	75	265x450x240
TZP 100A/440V	100	440	150	265x450x240
TZP 150A/440V	150	440	225	265x480x240
TZP 200A/440V	200	440	300	265x480x240
TZP 250A/440V	250	440	375	265x480x240
TZP 300A/440V	300	440	450	265x555x240

Power supply	Voltage/frequency	3 x 400V ± 10% / 50Hz
Excitation psupply	Two pulse diode rectifier	$I_{dhw} = 20A$
Output	Output voltage	0 ÷ 440V
Regulator	Thyristor delay angle control	Integrated phase controller
	Speed/Voltage stabilization	Analog PI regulator
	Current stabilization	Analog PI regulator
Control Input/Output	Analog input	Speed / Voltage setting 0 ÷ 10V
	Digital input	Regulator blocking 24V DC
	Analog output	Speed / Voltage 0 ÷ 10V
	Relay output	Fault Transmitter 250V AC
Protections	Overcurrent	$1,5 \times I_{og}$
	Supply voltage vanish	Main circuit supply voltage vanish Control circuit supply voltage vanish
	Wrong supply phase voltage order	Wrong supply phase voltage order of control system
	Excitation voltage vanish	