



Functions

- DS402 including capture & master-slave
- Camming function
- Stepper emulation
- Analog operation

Power stage

- IGBT power stage
- Nominal current 2.5 A / ... 8.0 A /230 V

Interfaces

- RS 232
- CANopen®, EtherCAT® fieldbuses
- Digital and analog inputs and outputs

Safety

- Safe Torque Off SIL 2

Tools

- Setup assistant
- Multi-axis programming and diagnostic

XtrapulsPac, AC Servo-controllers

The XtrapulsPac Drive is a flexible low power AC servo-controllers with outstanding real-time application capabilities. The basic version already offers the required interfaces and functions to cover a wide range of single- and multi-axis applications.

Electrical specification

Drive types		PAC-230		
	/05	/10	/17	
Peak current [Arms]	05	10	17	
Cont. current [Arms]	2.5	5.0	8.0	
Voltage	1x230	VAC, 50.	.60 Hz	

Control loops

- Digital drive for AC synchronous motors
- Current loop 62.5 μ s
- -Speed and position loop ≤500 μ s
- Closed loop control of position, speed or torque
- Max. speed up to 25'000 rpm

Feedbacks

- 12 bit resolver interface
- -Incremental encoder interface
- Hall sensor interface
- Interface for SinCos encoders with absolute commutation track, Hiperface[®] including multiturns

Communication interfaces

- -RS232 up to 19.2 kbit/s baud rate
- -CANopen®, EtherCAT® fieldbuses
- -DIP switches for node address

Safety features

-Safe Torque Off SIL 2

I/O interfaces

- Digital I/O's with dedicated functions (Enable, limit switches, home sensor, etc.)
- -User configurable digital outputs
- All digital I/O's opto-isolated
- -Analog inputs \pm 10 V / 12 bit resolution
- -Analog outputs ±2 V /8 bit resolution
- "Amplifier OK" output
- Motor brake control

Standards

-CE

-UL listed





Mechanical dimensions



Application features

With the flexible functional concept that allows to choose its behaviour, one single drive type can meet few different requirements, from the simple analog drive of a standard motion command of an entire machine module.

Functional concept

Choice of drive behaviour:

- Basic Drive (ex. CANopen DSP-402)
- -Stepper emulation
- Analog operation

Function libraries:

- Standard modes (DSP-402)

Tools

- Project manager
- Digital oscilloscope
- Motor libraries
- Multiaxis monitoring
- Setup wizards for motor and drive
- Auto-tuning function for control loops
- Auto-phasing function for motor adjustment

Programming Tool

