



## **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  $\mu$ s
- -Speed and position loop ≤500  $\mu$ 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<sup>®</sup> 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 ± 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

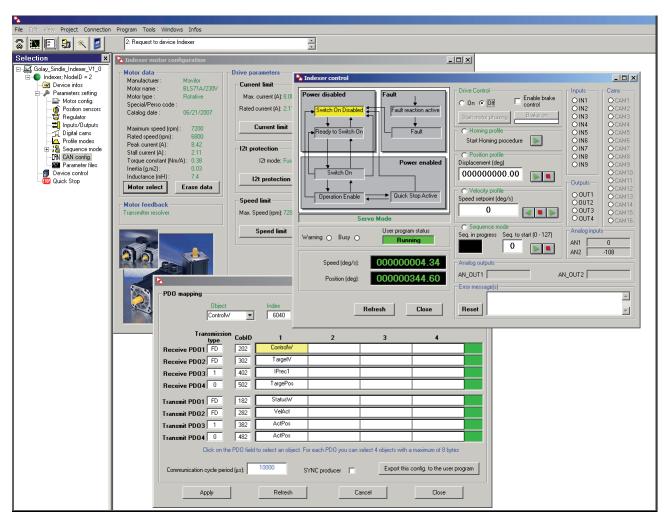
#### Function libraries:

- 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**



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#### The Infranor Group

Infranor creates added value for its customers by providing tailormade motion solutions.

Based on strong working relationships, Infranor offers extensive market know-how, comprehensive engineering skills and a wide range of high-quality products leading to productivity gains and therefore to comparative advantages for its customers in their respective markets.

### The Infranor Brand

The Infranor Brand is a synonym for:

- -Excellence
- -Cooperation
- -Added value