# **CINFRANOR**<sup>®</sup>





# **Functions**

DS402 standard modes Electronic gearing, camming, stepper emulation Analog speed drive, stand-alone positioner

# **Power range**

230 VAC : 5 ... 17 Arms max. 480 VAC : 8 ... 200 Arms max.

# Interfaces

RS-232, CANopen®, EtherCAT® Digital and analog I/Os

# Sensors

Resolver Encoders: incremental, absolute, HES Digital encoders: Hiperface DSL®, EnDat 2.2®, Tamagawa®

# Safety

Integrated Safe Torque Off SIL 2 function

# Tools

Project manager Setup wizard Multi-axis configuration and diagnostic Application templates for quick configuration

# XtrapulsPac<sup>™</sup>, AC servo-drive

The XtrapulsPac<sup>™</sup> Drive is a compact and flexible 230 and 480V AC servo-drive with outstanding capabilities. It provides functions and interfaces to cover a wide range of single- and multi-axis applications. This drive is available for push-through, coldplate and wall mounting.

# **Electrical specifications**



<sup>1</sup>Integrated power supply <sup>2</sup>External power supply

# **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**

- Resolver
- -Incremental encoder
- Hall effect sensor
- -SinCos encoder
- Single and multi-turn
- Hiperface® encoder
- Digital encoders: Hiperface DSL® (one single motor cable), EnDat 2.2®, Tamagawa®

# **Communication interfaces**

- -RS-232 up to 115.2 kbit/s baud rate
- -CANopen® or EtherCAT® fieldbus
- DIP switches for node addressing

# **Safety features**

- Safe Torque Off SIL 2

# I/O interfaces

- User configurable digital I/Os
- -All-digital opto-isolated inputs
- -Analog inputs ± 10 V / 12 bit
- Analog output 0 5 V / 8 bit
- "AOK" output
- Motor brake control
- Two channel STO function

# Certifications







### **Operation modes**

#### **DS402 standard modes**

- Cyclic synchronous position
- Cyclic synchronous velocity
- Cyclic synchronous torque
- -Interpolated position
- -Profile position
- Profile velocity
- Profile torque
- -Homing

#### **DS402 extended modes**

- -Analog speed
- -Stepper emulation
- -Sequences
- -Master-slave gearing
- Master-slave camming

#### Stand-alone operation

- -Analog speed drive
- -Positioner
- -Stepper emulation
- -Electronic gearing

# **Multi-axis toolbox**

#### **Configuration tools**

- Motor and drive configuration
- Application configuration
- -Interface configuration
- -Auto-tuning, auto-phasing
- -Sequencer programming

#### **Project tools**

- -Project creation
- -Project management
- -File handling services
- Motor libraries
- -Multilingual software

#### **Diagnostic tools**

- Device control
- -Device monitoring
- -Object dialog window
- Multi-axis oscilloscope

XtrapulsPac<sup>™</sup> can easily be configured as a stand-alone drive in various operation modes. It can also be integrated into an automation system with PLC, CNC or motion controller via the fieldbus and uses well-known standard functions available in libraries. This flexibility makes it suitable for use in a wide field of machines and applications.

# DS402 / PLCopen example



### Stand-alone positioner example

Step 1: Select template



### Step 2: Parametrize sequences



#### Step 3: Start execution







Dimensions [mm]	A	Б	C	D	E	^	T
Pac-230 V / 5 - 17 A	143	148	178	70		169	80
Pac-400 V / 8 - 45 A	186	203	235	70 (80*)	125	225	80
Pac-400 V / 100 A	210	203	235	80 (80*)	125	225	80
Pac-400 V / 200 A	215	265	295	166.6	-	285	100
GDPS-400 V / 16/32 kW	158	203	235	70	-	225	80
GDPS-400 V / 64 kW	207	262.5	295	71.5	-	285	80

# Infranor® product range



### **Infranor Group**

Infranor creates added value for its customers by providing tailor-made 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.

# Infranor worldwide

Benelux China France Germany Italy Spain Switzerland UK USA

Other representations: Austria, Denmark, India, Israel, Poland, Slovenia, Turkey.



### Contact