INFRANOR®

XtrapulsEasy™ 60VDC

Servo drive for brushless motors

Function

Compact servo drive for embedded applications

Power range

24 to 60VDC: 10, 20, 60 and 120Arms peak

Interfaces

RS-232, CANopen® DS301, DS402
Digital and analog inputs/outputs

Sensors

Resolver: transmitter, analog Hall (SinCos tracks)
Encoder: incremental, Hall effect
Sensorless mode

Safety

Safe Torque Off function

Tools

Project manager
Commissioning wizard
Multi-axis configuration and diagnostic

XtrapulsEasy™ 60V~DC~ servo drive

The 60V~DC~ servo drive XtrapulsEasy™ is a performing, extremely compact and easy-to-use device dedicated to applications operating with a 24V~DC~ to 60V~DC~ voltage. Thanks to its cost-effectiveness and its optimized functions, it focuses on applications where price is a determining factor.

Electrical specifications

Drive type	Easy-ak-60
	10 / 20 / 60 / 120
Peak current [Arms]	10 / 20 / 60 / 120
Rated current [Arms]	05 / 10 / 25 / 35*
Input voltage	24V~DC~ to 60V~DC~
Mechanical version	Standard

* May require an additional heatsink according to operating conditions

Control loops

– Digital drive for brushless motors
– Current loop 62.5μs
– Speed and position loop 500μs
– Speed, position and torque loop
– Max. speed: 25'000rpm

Feedbacks

– Transmitter resolver
– Analog Hall resolver
– Incremental encoder
– Hall effect sensor
– Sensorless mode

Communication interfaces

– RS-232 up to 115.2kbit/s baud rate
– CANopen® fieldbus

Input/output interfaces

– 4 configurable digital inputs
– 2 configurable digital outputs
– 1 configurable analog input

Resistance to vibrations and shocks

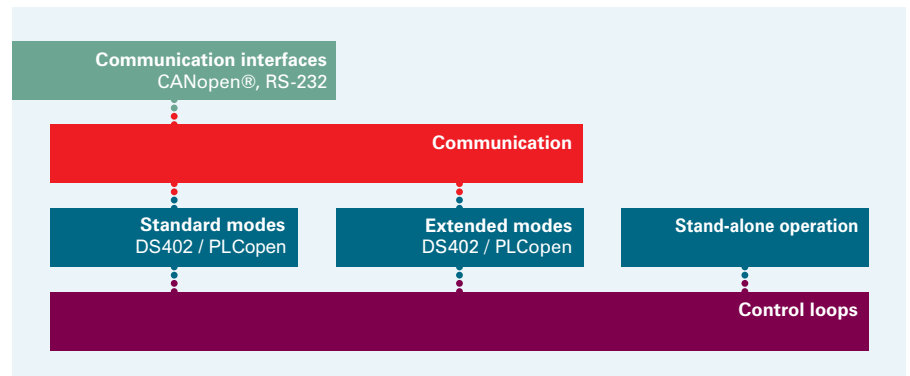– Vibrations: Embedded applications up to 4g.
– Shocks: Up to15g

Safety

– Integrated Safe Torque Off SIL1 function

Certification

CE

Functional architecture

Operation modes

DS402 standard modes
– Interpolated position
– Position profile
– Velocity profile
– Torque profile
– Homing

DS402 extended modes
– Sequences
– Analog speed mode
– Analog torque mode

Stand-alone operation
– Sequences
– Analog speed mode
– Analog torque mode

Multi-axis tool box

Configuration tools
– Motor and drive configuration
– Application configuration
– Interface configuration
– Auto-tuning
– Auto-phasing

Project tools
– Project creation
– Project management
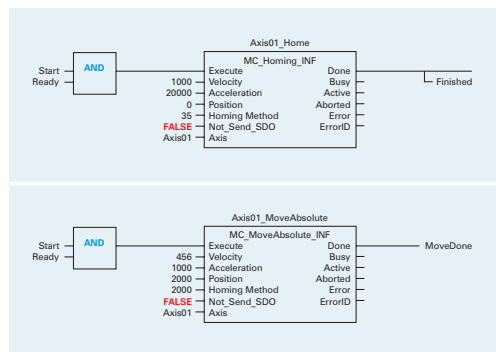– File management
– Motor library
– Multilingual software

Diagnostic tools
– Device control
– Monitoring
– Object dialog window
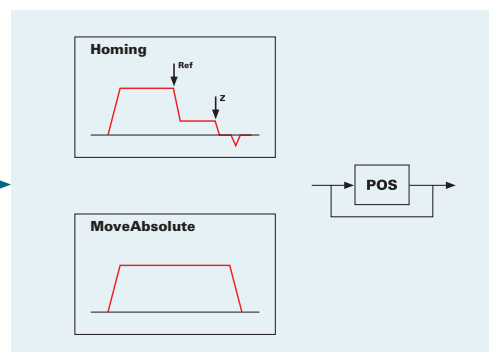– Multi-axis oscilloscope

Made in France

The XtrapulsEasy™ 60 VDC servo drive can be easily integrated into an automation system consisting of a programmable PLC, a CNC or a motion controller. The CANopen® fieldbus allows using the standard DS402 functions available in the drive libraries. It can also be configured as an analog speed drive. Such flexibility as well as its very small dimensions make this drive suitable for embedded operation in lots of machines and applications.
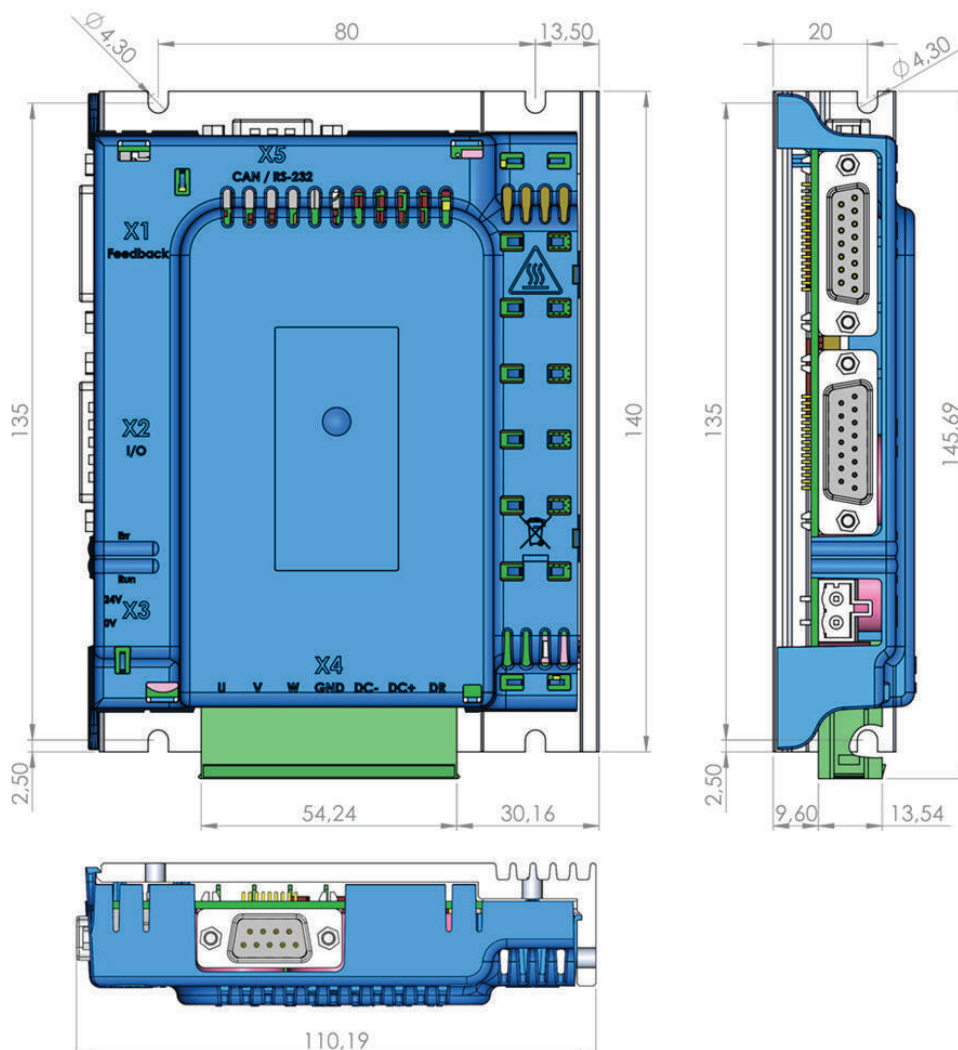
DS402 / PLCopen example

PLC

Drive

Dimensions [mm]

Infranor® Product Range

Drives

Standard drives

Customized drives

Drive applications

Motors

Standard motors

Customized motors

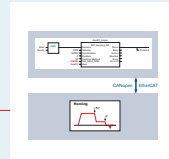### Motor applications

Services

Standard services

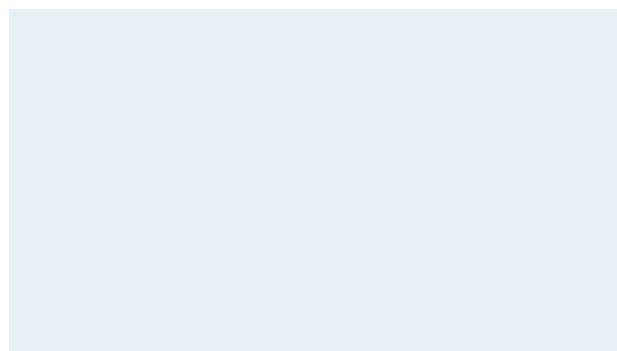### User-specific services

Global solutions

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.

Contact

Infranor worldwide

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USA

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

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