



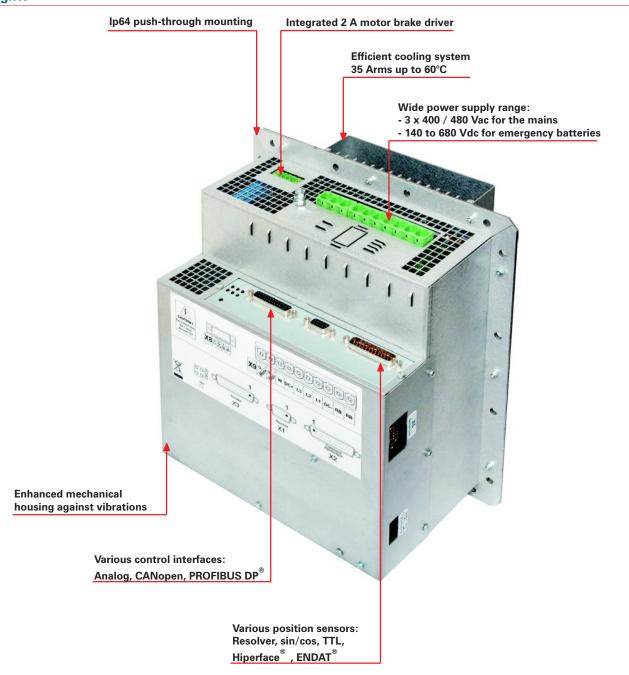
XtrapulsCD1-EM, AC Servo-drives

The described XtrapulsCD1 versions are optimized for embedded applications in particular for wind turbine pitch control. XtrapulsCD1 is a family of configurable multipurpose AC servo-drives for the solution of very dynamic and accurate regulation tasks. The compliance with the various fieldbus standards allows an easy connection of the drive to the hardware and software of the chosen control system.

Electrical data

Туре		CD1-EM 400 / 70	CD1-EM 400 / 90
Output peak current 1s	[Arms]	70	90
Output nominal current	[Arms]	35	35
Input voltage			3 x 400 / 480 VAC, 5060 Hz or 140 to 680VDC

Highlights



Communication interfaces

- -RS-232 up to 19.2 kbit/s baud rate
- -CANopen up to 1 Mbit/s baud rate
- PROFIBUS DP® up to 12 Mbit/s baud rate
- -Switches for node address

I/O interfaces

- Dedicated digital I/Os (Enable, limitswitch, homing, etc.)
- All digital I/Os opto-isolated
- Analog inputs ±10 V / 14 bit resolution
- -Analog output ±10 V / 8 bit resolution
- Relay output "Amp OK"
- Motor brake control output 24 V / 1.5 A
- Encoder simulation from 64 to 16384 ppr

Control loops

- Digital drive for AC synchronous motors
- Current loop 62.5 μs
- -Speed and position loop 500 μ s
- Closed-loop position, speed or torquecontrol
- Cogging torque compensation
- Maximum speed up to 25'000 rpm

Feedbacks

- 16 bit resolver interface
- -Incremental encoder interface
- Hall sensor interface
- Interface for SinCos encoders with absolute commutation track, Endat[®] or Hiperface[®]

Tools

- -Setup assistant for motor and drive
- Motor library
- -Auto-tuning function for control loops
- Auto-phasing function for motor adjustment
- Test functions such as direct motion commands and digital oscilloscope

Standards

- CE
- -UL listed

Speed Servo CD1-a

- Speed or torque controller, slave axis with electronic gearing or positioner with stepper motor emulation
- ±10 V inputs for current or speed command and for external current limitation
- Programmable speed limitation and acceleration ramp
- Motor brake control via 24 V output
- Double feedback system (motor and load) via resolver and encoder
- RS-232 addressing for multi drop applications

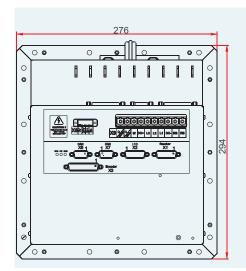
Positioner CD1-pm

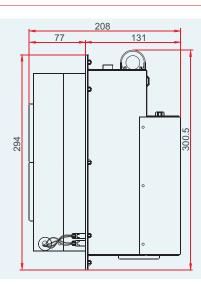
- Up to 128 user defined sequences
 (Home, Position, Speed, Torque, gearing)
- Trapezoidal or S-curve profile generator
- Dedicated I/Os (Home-Index, Start, Stop, Pos, Speed and Sequence)
- User definable I/Os
- Motor brake control via 24 V output
- Slave axis with electronic gearing
- Double feedback system (motor and load) via resolver and encoder
- Choice of stand-alone operation and control via PROFIBUS DP® or RS-232
- PROFIBUS DP® with PPO1 .. PPO4 messages, SYNC and FREEZE functions

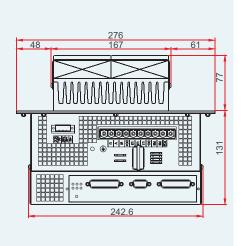
CANopen drive CD1-k

- Various operation modes (Homing, Interpolated Position, Position Profile, Velocity Profile, Torque Profile, Gearing)
- Trapezoidal or S-curve profile generator
- Dedicated I/Os (Home-Index, Inhibit, Limit switches, Capture, Low Speed)
- -User definable I/Os
- Motor brake control via 24 V output
- -Slave axis with electronic gearing
- Double feedback system (motor and load) via resolver and encoder
- Capture function
- Digital cam function
- CANopen interface according to DS-301
- CANopen Drive Profile according to DS-402

Mechanical dimensions







Infranor Product Range

Drives

Motors

Services





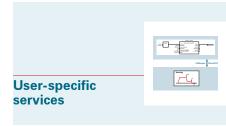


















Infranor Group

Drive

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.

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