

Product info pdcx85



- Power drive plus motion controller
- 2-, 3-phase stepper (micro step)
DC-, Brushless DC-Motor
- Motion and control functions
- 24...80(130)Volt, up to 6(10)Ampere
- Compact in size, metal housing
- Wall mounting, DIN-rail
- **USER-Interface:** (galvanic isolation)
 - Pulse and Direction (optional)
 - RS232 (optional)
 - CANopen (optional)
 - SPI (for I/O extension) (optional)
 - RS485 and Profibus (coming soon)
 - Display Unit with I/O extension (PLC) (coming soon)
- **Peripheral-Interface:** (galvanic isolation)
 - Inputs: 2x Limit switch, 2x free
 - Outputs: Ready, 1x free
- **Encoder-Interface:** (galvanic isolation)
 - Incremental-encoder, HALL-sensors
- **Multiple motion and. control functions**
 - absolute and relative motion, reference motion,
 - velocity profiles, free ramp parameters, ...
 - pulse monitoring, avoid against pulse losses, ...
 - special target market control functions
 - semi custom solutions
- **Status display and parameter setting**
 - with 4-LEDs and parameter switch
 - adjustment at front panel, no programming tool required
- **Multiple safety functions**
 - over current, over temperature, high-, low voltage,
 - pulse monitoring, , step monitoring...

- **Size:** H:W:D 200x40(65)x105(mm)

Variants / Order code

pdc_085.11xxxxx DC Motor Drive & Controller
 pdc_185.11xxxxx (BLDC) EC Motor Drive & Controller
 pdc_285.11xxxxx 2 Phase Stepper Drive & Controller
 pdc_385.11xxxxx 3 Phase Stepper Drive & Controller

..-x---- 0/1: without / with heat sink
 ---x--- 0/1: wall mounting / DIN-rail clip
 ---x--- 0/1/2: none / RS232 / RS485 (coming soon) /
 3/4/ SPI(for IOext) / CANopen /
 5/6/ Pulse/Direction / LCS/TCS
 .----x- 0/1: 24...80V / 60...130V power supply
 .-----x 0/1: 5A / 10A Motor current



heat sink optional

Motor controller for many applications

The new pdcx85 series features motion control and power drive functionality in one single device. Optionally the device can operate 2- or 3-phase Steppers and also DC- or BLDC-motors. By using the optimal motor type for the appropriate application under one common user inter-face is a big advantage. This was possible by using state of the art digital signal processor technology. Many motion and control functions for the appropriate motor types are available.

These are for example pulse monitoring or pulse control for safety relevant applications. Standard interfaces are Pulse and Direction, RS232 and CANopen. Bus connections such as RS485 and are planned and the hardware platform from point is already prepared from a hardware perspective. Multiple settable parameters make it easy to optimize the controller for several applications.

Because of the wide power supply and motor current range it is possible to serve a larger application field with less motor variants. Further more, the integrated fan makes the place of installation in a housing cabinet uncritical. All connectors are removable. The series pdcx85 is a motion control device with excellent motion performance featuring reduced resonances and noise and also smooth motion at high and constant motor torque.