

Very compact eurocard servodrives 60Vdc power supply range for Brush servomotors. Driving motor ranges up to 2,5Nm, tacho generator, encoder or armature feedback.

# DCD60

## SERVO AMPLIFIER FOR BRUSH DC MOTORS

The DCD60 is a precision four quadrant regenerative servo drive for permanent dc Brush servomotors. Possible control methods include velocity and torque modes. There are many different velocity modes: tachogenerator, encoder and armature feedback.

### ► DCD60 advantage

- Eurocard servodrives up to 0,8W (2,5Nm) motors
- Small package, versatility, ease-of-use, cost-effective
- Feedback for motors with:
  - \* Encoder
  - \* Tachogenerator
  - \* Armature

### ► Standard characteristic

- Four quadrant regenerative operation
- Single supply DC voltage
- 4 diagnostic Leds (State and Alarms)
- Protections for: Over/Under voltage, max. temperature reaches, Over current, Ixt motor current
- 1 Differential velocity input +/-10V
- 1 Torque mode (demand current) TPRC input
- Feedback available (series): Quadrature encoder - tachogenerator - Armature
- NPN Fault drive output
- Five Potentiometer adjustments (Speed, offset, gain, speed, derivative)
- Acceleration/deceleration ramp



### ► Specifications

- |                              |                        |
|------------------------------|------------------------|
| • PWM frequency              | 20Khz                  |
| • Operative temperature      | 0/+45°C                |
| • Analog inputs range        | +/-10Vdc               |
| • Current monitor            | +/- 8Vdc (At pk curr.) |
| • Ausiliary power supply     | +/-10Vdc @ 3mA         |
| • Maximum encoder frequency  | 200Khz                 |
| • Logic level encoder inputs | ≥ +2,8V/+24V           |
| • Start signal (Input range) | +9V/+30Vdc             |
| • Current loop bandwidth     | 2KHz                   |
| • Velocity loop bandwidth    | 150Hz                  |

MODEL		DCD60			
DC Voltage Supply (Vdc)		60			
DC Voltage Range (Vdc)		19 - 84			
Size (A)		3/6	7/14	10/20	14/28
Rated Current (A)		3	7	10	14
Peak Current (1) (A)		6	14	20	28

(1) Peak current has duration 2 sec.

Order code example:

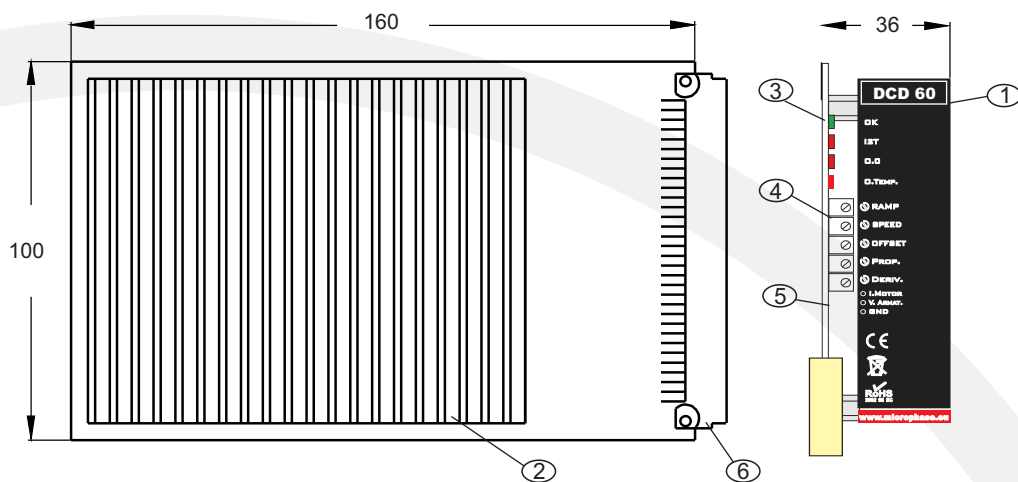
**DCD - 60 - 10 - T - RD - ord. 901/18**

Product name \_\_\_\_\_ Customer order \_\_\_\_\_  
 Model \_\_\_\_\_  
 Size (A) \_\_\_\_\_  
 Feedback: \_\_\_\_\_  
 Tacho generator= T  
 Encoder= E  
 Armature= A  
 Control mode: \_\_\_\_\_  
 RD= Differential vel.

Label example:

**DCD-60-10-T-RD**  
**ord. 901/18**

### ► View product



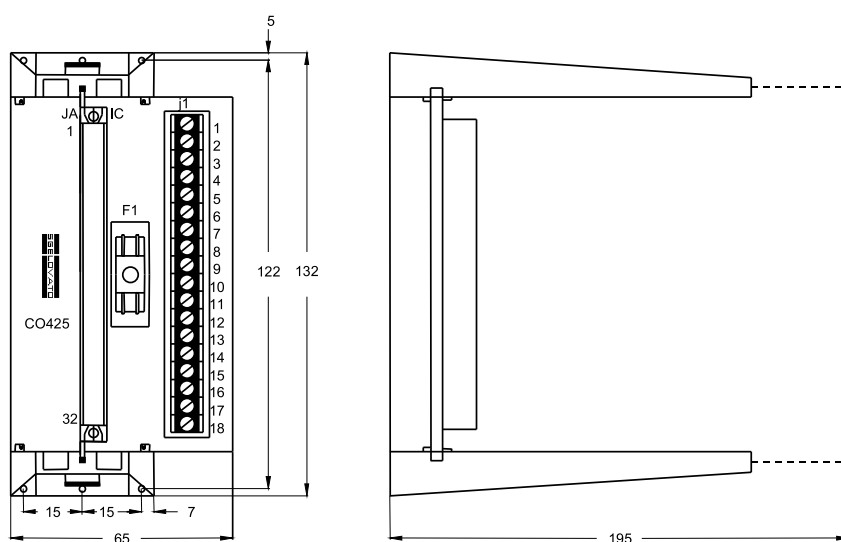
- (1) Product Label
- (2) Cooling radiator booster
- (3) Leds
- (4) Calibration Potentiometers
- (5) Test (Current monitor, and armature)
- (6) Connector type DIN 64 Pin

\*Dimensions mm

[ Datasheet DCD60 (eng) - 2 of 2 ]

### ► Single card systems

Single card with DC input power supply and supply line fuse.



**Accessories:** • Switching power supply 220-400Vac/55Vdc • Single/3ph transformers from 100 to 7000VA • Single/3ph bridges 600V 35A • Power supply capacitors 4700uF / 10000uF • Net filters (for CE compliance)