

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.)
• Auxiliary power supply	+/-10Vdc @ 3mA
• Maximum encoder frequency	200Khz
• Logic level encoder inputs	$\geq +2,8V/+24V$
• 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 \_\_\_\_\_  
 Model \_\_\_\_\_  
 Size (A) \_\_\_\_\_  
 Feedback:  
 Tacho generator= T  
 Encoder= E  
 Armature= A

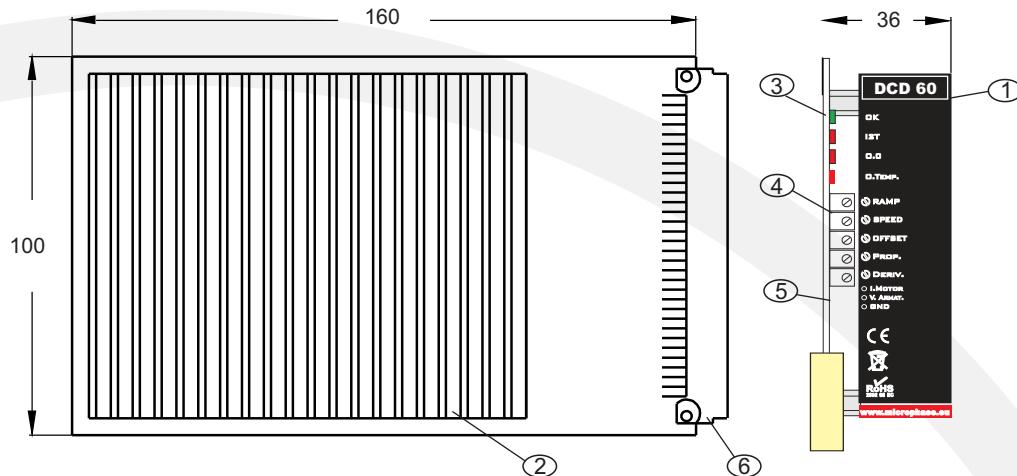
Customer order  
 Control mode:  
 RD= Differential vel.

Label example:

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

► View product

### Mechanical dimensions

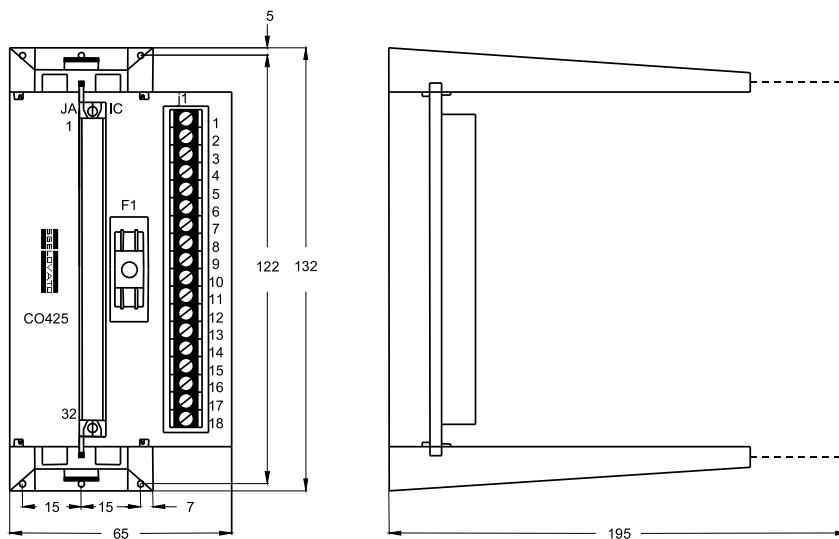


[Datasheet DCD60 (eng) - 2 of 2]

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► 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)

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