

Eurocard Servodrives up to 2,8KW

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Very compact eurocard servodrives 65 - 145 - 200 Vdc power supply range for Brush servomotors. Driving motor ranges up to 9Nm, tacho generator, encoder or armature feedback.

Mini Dc

SERVO AMPLIFIER FOR BRUSH DC MOTORS

The *Mini DC* 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. *Mini DC* requires only a single VDC power supply which could even be provided with unbeatable multi-axis systems, when combined with the rack system up to 7 axis, with internal power supply and dumping card.

▶ Mini DC advantage

- Eurocard servodrives up to 2,8W (9Nm) 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
- 5 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) input
- •Feedback available (series): Quadrature encoder tachogenerator Armature
- NPN Fault drive output
- •Five Potentiometer adjustements (Speed, offset, gain, derivative)
- Acceleration/deceleration ramp



▶ Specifications

- PWM frequency
- Operative temperature
- Analog inputs range
- Current monitor
- Ausiliary power supply
- Maximum encoder frequency
- Logic level encoder inputs
- Start signal (Input range)
- Current loop bandwidthVelocity loop bandwidth

20Khz

0/+45°C +/-10Vdc

+/- 6Vdc (At pk curr.)

+/-10Vdc @ 3mA

200Khz

≥ +2,8V/+24V

+9V/+30Vdc

2KHz

150Hz

MODEL	MINI DC 60				MINI DC 140				MINI DC 200				
DC Voltage Supply	(VDC)	65				145				200			
DC Voltage Range	(VDC)	20 - 76				70 - 160				100 - 230			
Size	(A)	5	8	10	14	5	8	10	14	5	8	10	14
Rated Current	(A)	5	8	10	14	5	8	10	14	5	8	10	14
Peak Current (1)	(A)	10	16	20	28	10	16	20	28	10	16	20	28
Rated Power (2)	(W)	325	520	650	910	725	1160	1450	2030	1000	1600	2000	2800
Peak Power (3)	(W)	650	1040	1300	1820	1450	2320	2900	4060	2000	3200	4000	5600

Order code example:

MIDC - 140 - 14 - T - RD - ord. 612/13

Product name — Customer order

Model
Size (A) Feedback: — Control mode:

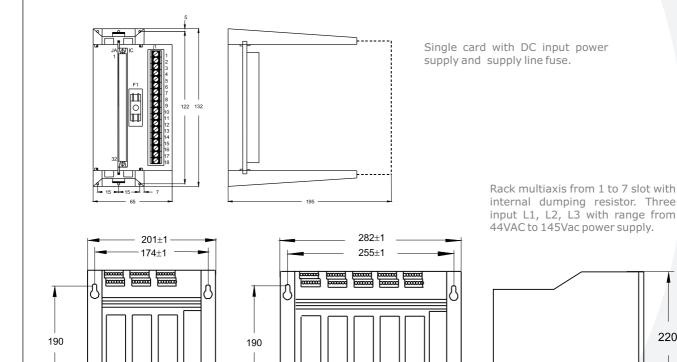
Tacho generator= T
Encoder= E
Armature= A

Label example:

MIDC-140-14-T-RD ord. 612/13



View product **Mechanical dimensions** 160 36 (4) 100 (5) **※** 区 **※** 2 6 *Dimensions mm Product Label (1) (2) (3) (4) (5) (6) Cooling radiator booster Leds Calibration Potentiometers Test (Current monitor, and armature) Connector type DIN 64 Pin



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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Single card and rack systems

MICROPHASE

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220

Datasheet Mini DC (eng) - 2 of 2