

Equipment

- CANopen® interface
- RS232 interface for parameterization via PC
- 12 digital inputs, 6 digital outputs
- 2 inputs for incremental encoder (RS422)
- Connections via Molex connectors (Mini-Fit, Micro-Fit)

- Servo amplifier for two independent axes
- PCB solution for integration on customer side
- Option: Protective housing

Electrical Connection Data

→ DC Supply		
Rated supply voltage	V _{DC}	24 ... 60
Rated supply power	W	260
→ Data of Power Output Stage (per axis)		
Peak output current	A _{RMS}	7.5 / 5s
Rated output current	A _{RMS}	2.5
Overtoltage switch-off	V _{DC}	75
DC link capacity	µF	220
Returnable energy	Ws	0.2
→ Data of Brake Control (per axis)		
Output voltage	V	24
Output current (permanent)	A	0.5

→ Control Signals		
24-V supply (current consumption without output)	V	24 (18 ... 30)
	A	0.3
12 digital control signal inputs	V	LOW 0-7, HIGH 12-36
	mA	10 (at 24 V)
6 digital control signal outputs	V	24
	A	0.5
→ Dimensions and Weights		
Dimensions W x H x D	mm	approx. 120 x 100 x 30
Weight	kg	0.105
→ External Fuses		
DC supply		8 A (slow-acting)
24-V logic supply		2 A (slow-acting)

→ Ambient Conditions	
Ambient temperature during operation with rated load	0 °C .. 40 °C
Storage temperature	-10 °C .. 70 °C
Degree of humidity (non-condensing)	5 - 95 (% rel. humidity (RH-2 according to IEC 61 132-2)
Installation altitude	max. 1000 m above mean sea level without power reduction
Mounting position	any
Protection class	IP00 (IP20 with optional protective housing)
Applicable standards	no self-contained device, thus IEC 61800 is not applicable directly

Basic Functions

- Operation of 2-phase ECOSTEP motors series 17H, 23S
- Digital current, velocity, and position control
- Setpoint setting via CANopen and RS232
- Motion Control, interpolation via CANopen (t_{sync} = 1 ms)
- Limit switch and reference sensor evaluation
- Homing methods with index pulse evaluation
- Encoder monitoring
- Intelligent control of two holding brakes with automatic current reduction

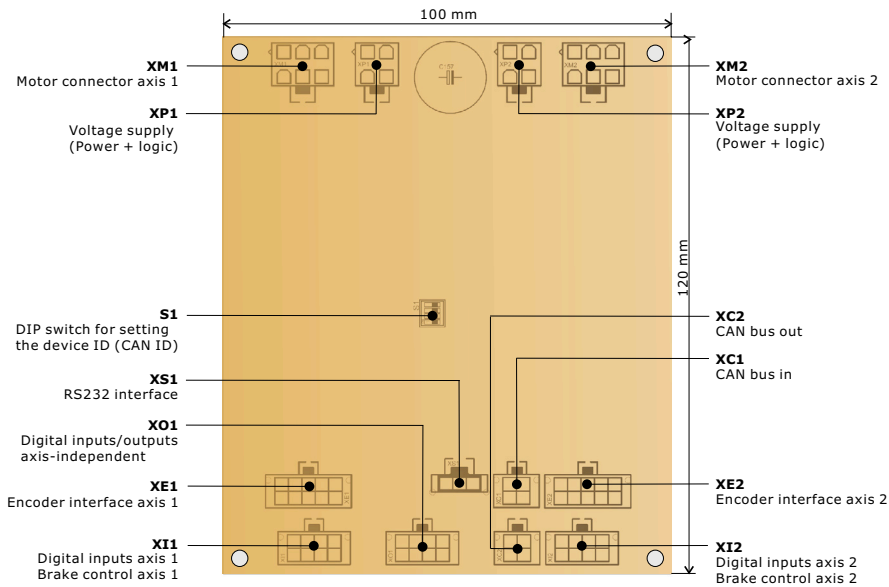
Applications

- 2-axes servo operation („Closed loop“)
- 1-axis servo operation with second measuring system or „Master/Slave“
- 2-axes stepper operation („Open loop“)
- 2-axes stepper operation („Master/Slave“)
- Control of voice coil actuators with linear measuring system

Ordering Designations

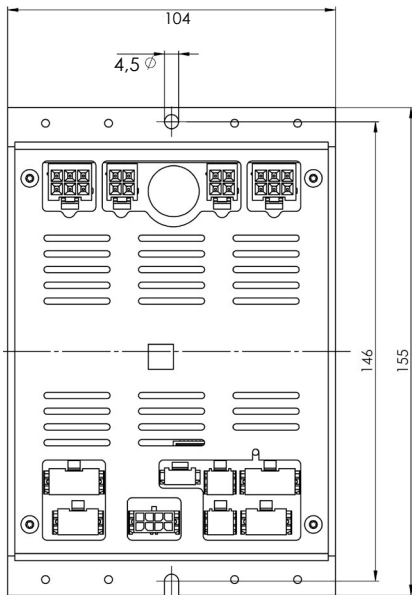
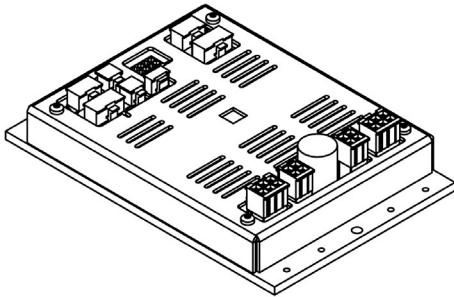
- w/o housing: ECOMiniDual 007DN-BN-xxx-xxx
- with housing: ECOMiniDual 007DG-BN-xxx-xxx (see reverse side)





→ Option: Protective housing

- For mechanical protection of the PCB and the components
- Ordering designation: ECOMiniDual 007DG-BN-xxx-xxx
- Accessories: mounting brackets for horizontal or vertical mounting, strain relief bracket



→ Connection diagram

