ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

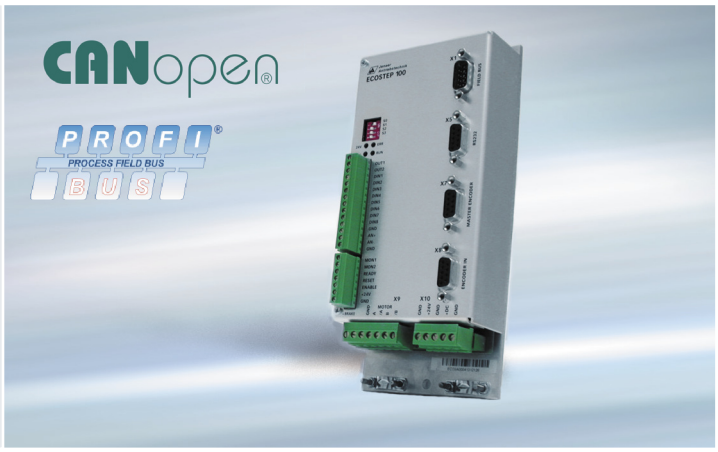
Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Jenaer Ecostep-100* at our website: ***Click HERE***



Equipment

- RS232 interface
- RS485 interface
- CANopen, or
- Profibus DP
- 10 digital inputs (8 programmable)
- 3 digital outputs (2 programmable)
- Clock/direction interface
- 2 Encoder inputs (incremental)

Functions

- Operation of 2-phase brushless synchronous motors
- Operation of 2-phase synchronous linear motors
- Operation of brushed DC servo motors
- Operation of stepper motors
- Torque, force, speed, and positioning control
- Interpolation via CANopen

DC Supply		
Power supply	V_{DC}	24 ... 70
Recommended fuse for power supply	A	10 (slow)
Logic supply	V_{DC}	24 (18-30)
Recommended fuse for logic supply	A	3 (slow)
Data of Power Output Stage		
Maximum effective current per phase	A_{RMS}	5.6
Maximum phase current	A_{DC}	8
Rated output current	A_{RMS}	4.2
Maximum output voltage	V_{DC}	70
Rated output voltage	V_{DC}	60
Minimum inductivity of motor winding	mH	0.5
Maximum length of motor cable	m	10
Frequency of output current ripple	kHz	16.4
Data of Brake Control		
Output voltage (depending on logic supply)	V_{DC}	24
Output voltage reduced	V_{DC}	12
Output current 100 ms/permanent	A	0.8 / 0.5

Control Signals		
Digital inputs	V	24
	mA	2
Digital outputs	V	24
	A	0,5
Analogue input		-10 V ... +10 V
		10 bit resolution
Analogue monitor outputs		0 ... 5 V
		8 bit resolution

Dimensions and Weights		
Dimensions W x H x D	mm	87 x 200 x 50 (without mating connector)
Weight	kg	0.5
Housing		Aluminium passivated, in conformance with RoHS
Cable clamping and strain relief		metal clamps, max. cable diameter 15 mm
Ambient Conditions		
Class		3K3 acc. to EN 50178
Ambient temperature during operation with rated load		5 ... 40 °C
Storage temperature		- 10 ... 70 °C
Degree of humidity (non-condensing)		max. 95% of rel. humidity
Cooling		mounting on supporting plate
Installation altitude		max. 1500 m above mean sea level without power reduction
Mounting position		The technical data refer to a vertical mounting position
Protection class		IP20, pollution degree 2
Applied standards for CE		EMC acc. to EN61800-3, safety acc. to EN61800-5-1
Applied standards for UL		UL508C

Basic Functions

- Digital speed and position control with position, speed, and torque limiting
- Digital filter functions effective on resonant loads
- Parameterisable velocity profiles with jerk limiting
- Short-circuit, voltage, temperature, encoder, tracking error and I^2xt monitoring
- Parameterisation via RS232, RS485, CANopen, or Profibus DP
- Scalable analogue input for any setpoint
- Scalable analogue monitors for any actual value
- Intelligent control of a holding brake with automatic voltage reduction
- Limit switch and reference sensor evaluation, various reference point approach modes
- Enabling of output stage and reset of fault conditions via digital inputs
- Readiness for operation message via digital output
- Setting of field bus node address via DIP switch
- Status indication via 4 LEDs

Positioning Control on Field Bus

- Setpoint setting via RS232, RS485, CANopen, or Profibus DP
- Point-to-point control
- Path interpolation via CANopen

Master / Slave Positioning

- Parameterisable electric gearbox
- Master position via encoder signals or CANopen

Positioning with Clock / Direction Setpoint

- Scalable setpoint setting via RS422 for clock / direction signals

Positioning with Digital I/O Interface

- 256 motion profiles storable
- 8 digital inputs
- 2 digital outputs
- Event-based control concept

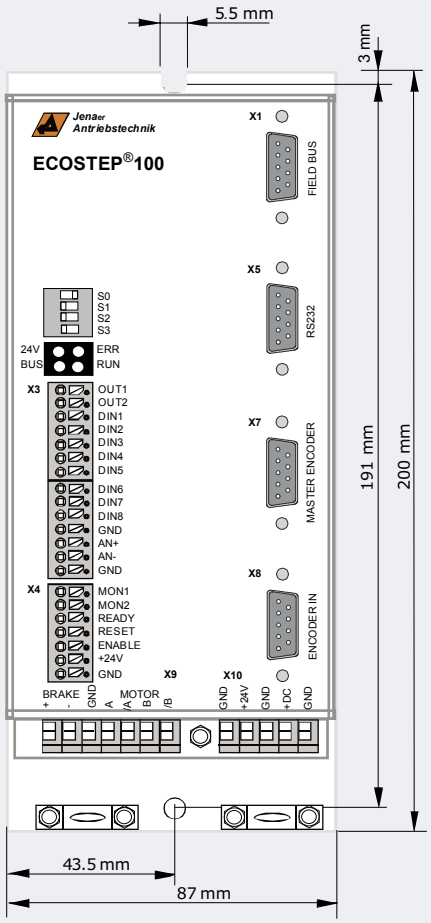
Joystick Operation

- Parameterisable joystick table for speed or position with 256 entries
- Joystick connection to +/-10 V analogue input

Speed Setting with Analogue Setpoint

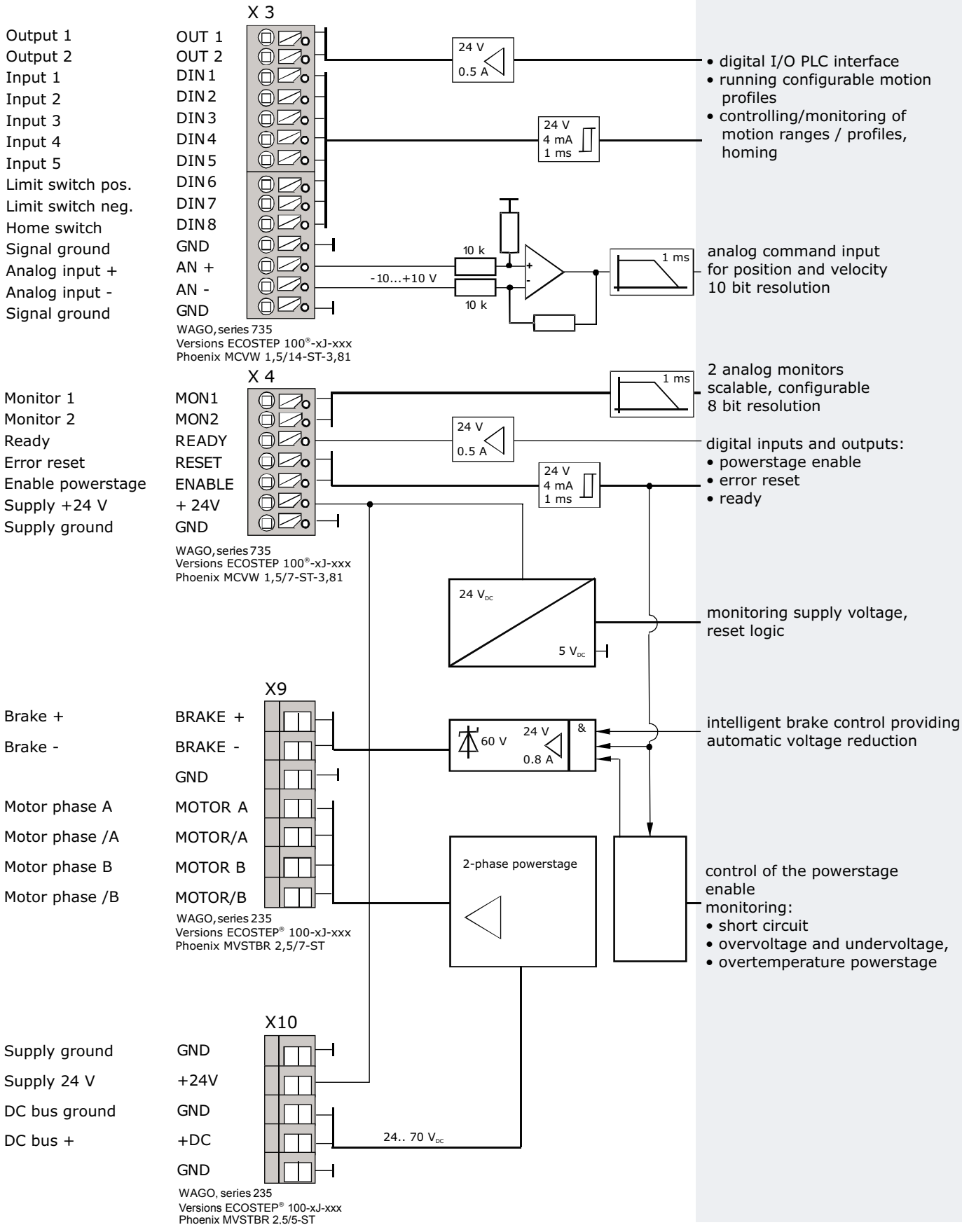
- Scalable speed setpoint via +/-10 V analogue input
- 10 bit resolution

Mechanical Outlines



depth approx. 50 mm (without mating connectors)

Connections



Interfaces

RS232 serial interface for parameter setting, configuration, control, interface for setup by a PC

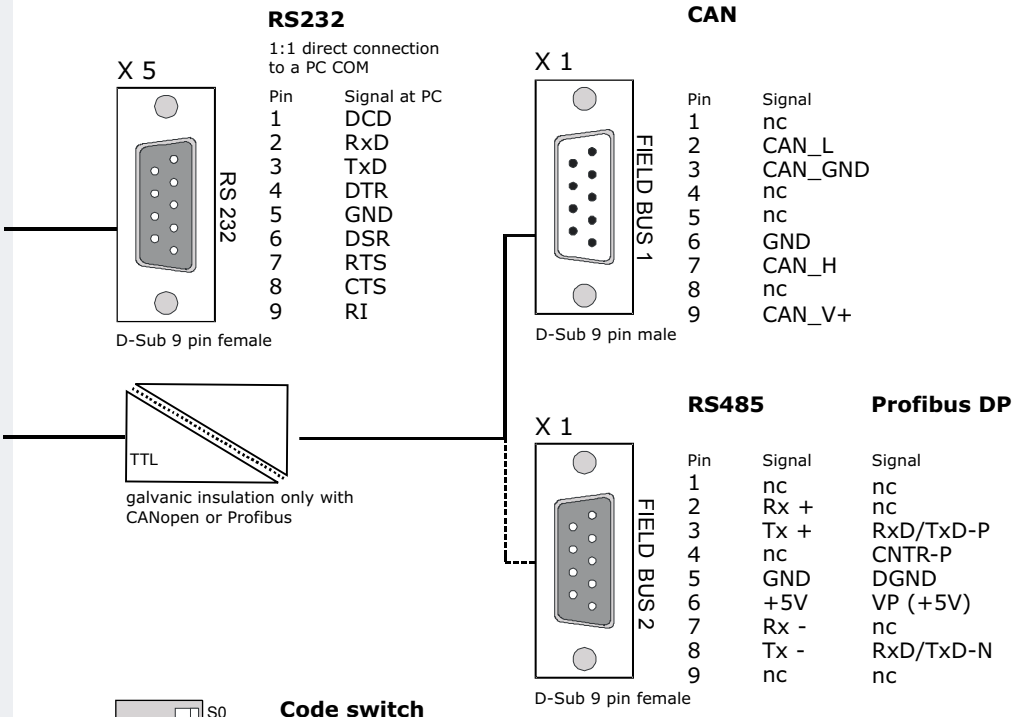
Field bus interface: CANopen (DS 402), RS 485 (published protocols) or Profibus DP

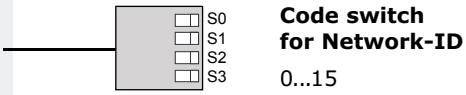
ID setting for serial network operation

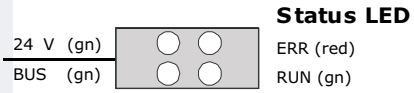
4 LEDs for indication of device status

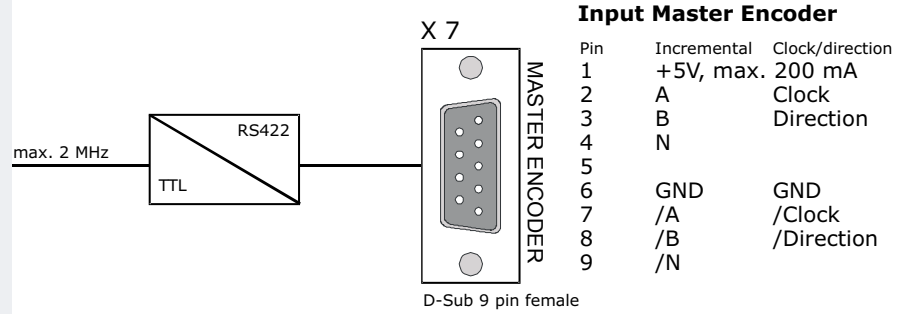
quadrature encoder input: configurable electronic gear box or clock/direction

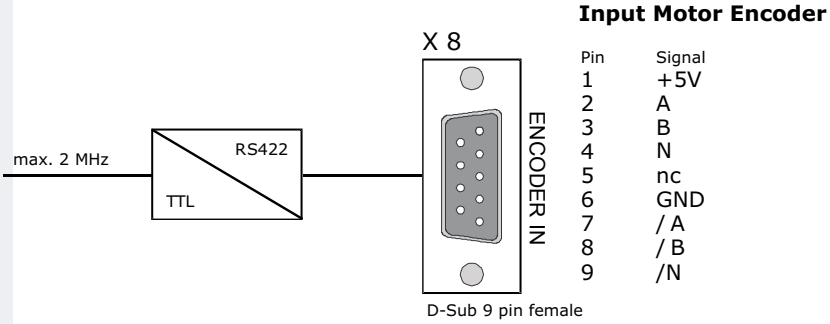
quadrature encoder input: for commutation, current, speed and postion control











Jenaer Antriebstechnik GmbH • Buchaer Str. 1 • D-07745 Jena • Tel.: +49 (0) 36 41 / 6 33 76-55 • Fax: +49 (0) 36 41 / 6 33 76-26

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP