

# FIELD BUS DRIVES FOR STEPPING MOTORS



This range comprises mini-step bipolar chopper drives of up to 1/128 steps, with a fieldbus interface for driving STEPPING motors of all sizes, with a rated current of up to 12A.

The fieldbuses available are Profinet IO, EtherCAT, Ethernet/IP.

These drives consist of a board housed in a metal box, and they are fitted with removable screw connectors with separate logic and power.

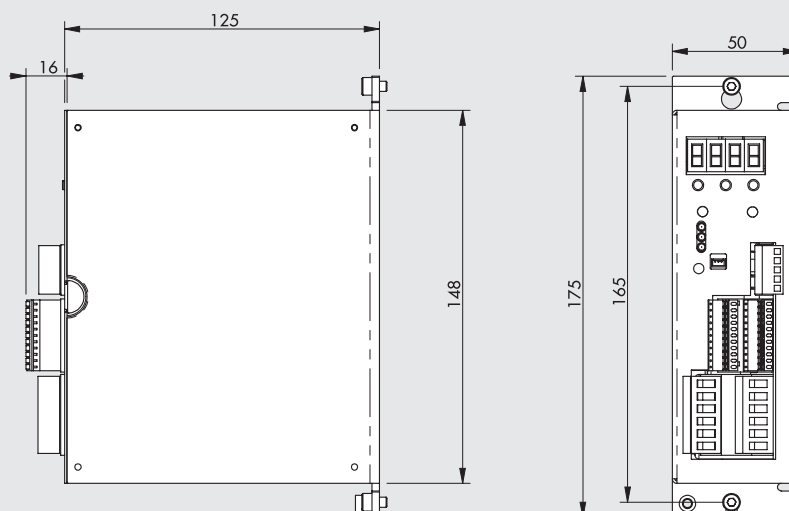
Each drive:

- features digital and analogue I/O;
- can control differential and single-ended encoders;
- can control the parking brake and perform reset procedures by means of limit switches;
- can handle power supply voltages of up to 125VDC and up to 90VAC;
- is space saving;
- offers high versatility in use;
- provides automatic and configurable power reductions.



DRIVE TECHNICAL DATA		37D1442001	37D1442002	37D1442003	37D1642000	37D1642004	37D1642005
Drive code			HT721			HT 741	
Model							
STEPPING motor drive					Metal box		
Dimensions	mm				170 x 139 x 49		
Connectors					Screw type		
Onboard power supply					NO		
Control (fieldbus)		Profinet IO	EtherCAT	Ethernet/IP	Profinet IO	EtherCAT	Ethernet/IP
Operating voltage range (power)	VDC		24 - 90			24 - 125	
	VAC		18 - 60			18 - 90	
Operating voltage range (logic)	VDC			24			
Current range	A		1 - 7			1 - 12	
Pulses per rev values selected by dip-switch	pulse/rev		200, 400, 800, 1000, 1600, 3200, 6400, 12800, 25600				
Encoder control					Differential 5V, Single Ended 12 - 24V		
Automatic current reduction with motor off	%				YES (0, 25, 50, 100%)		
Type of inputs/analogue outputs	VDC				0 - 10		
Type of inputs/digital outputs					PNP - NPN configurable opto-insulated		
Protections					Overtemperature, overvoltage, undervoltage, short-circuit protection at digital outputs		
Weight	g				720		

## OVERALL DIMENSIONS

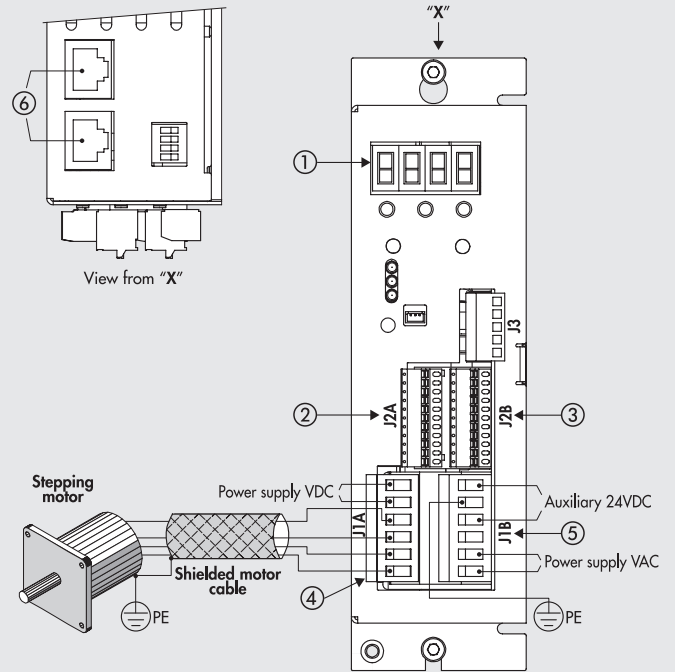


Please contact our sales offices for further information and quotation.

## WIRING DIAGRAM FOR STEPPING MOTOR DRIVES

- ① 4-DIGIT DISPLAY and PROGRAMMING KEYS: to set some system operating parameters.
- ② ENCODER- DIGITAL INPUT CONNECTORS: push-pull, line-driver and open-collector encoders can be connected.  
There are 3 PNP and NPN user configurable digital inputs.
- ③ DIGITAL OUTPUT TO ANALOG INPUT CONNECTOR: there are 3 user configurable digital outputs and three 0-10V analogue inputs.
- ④ DC MOTOR PHASE AND POWER SUPPLY STAGE CONNECTOR.
- ⑤ AC POWER SUPPLY STAGE AND LOGIC STAGE CONNECTOR.
- ⑥ Profinet IO, EtherCAT, EtherNet/IP FIELDBUS CONNECTION

Log on to [www.metalwork.it](http://www.metalwork.it) to view the instruction manual.



## NOTES