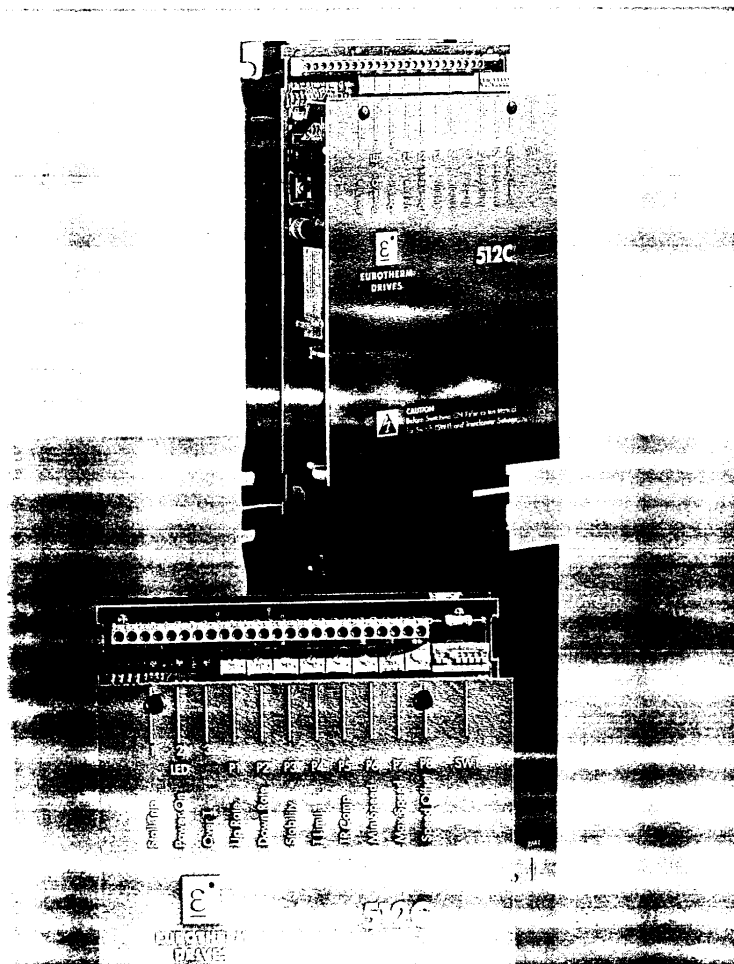


Ε

**EUROTHERM
DRIVES**

Isolated control circuitry, a host of user facilities and extremely linear speed and current loops makes the 512C ideal for single dc motor or multi drive applications. Designed for use on single phase supplies the 512C is suitable for controlling either permanent magnet or shunt wound field motors in speed or torque control.

International acceptability for the 512C series is guaranteed with CE Marking, compliance with the European Low Voltage and EMC directives with North American UL/c-UL listing pending.



**512C series
DC motor
controllers**

GENERAL DESCRIPTION

The 512C series isolated thyristor drives are designed for speed and torque control of shunt wound or permanent magnet dc motors. Suitable for use on ac supplies from 110V to 480V they are available in four armature ratings from 4 to 32A. The control interface of the 512C, including 0-10V buffered speed signal and 24V healthy output, make it ideal for multi drive master/slave systems as well as single motor applications.

- **FULLY ISOLATED CONTROL CIRCUITS**
- **CE MARKED AND EMC COMPLIANT**
- **OPTIONAL MATCHED 'FOOTPRINT' RFI FILTERS**
- **USER CONFIGURABLE FOR 110-230-400-480V AC SUPPLIES**
- **EXTREMELY LINEAR CONTROL LOOPS**
- **24V ZERO SPEED AND HEALTH OUTPUT**
- **MULTIPLE INPUT SPEED AND CURRENT SETPOINTS**
- **3A DC FIELD OUTPUT**

TECHNICAL SPECIFICATION

ELECTRICAL RATING



TYPE	ARMATURE CURRENT Adc	TYPICAL MOTOR RATING kW 240V ac supply	415V ac supply
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512C/04	4	0.55	1.1
512C/08	8	1.1	2.2
512C/16	16	2.2	4.0
512C/32	32	4.5	7.5

SUPPLY VOLTAGE (Single Phase) Vac ± 10%	ARMATURE VOLTAGE Vdc	FIELD VOLTAGE Vdc
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110-120	90	100
220-240	180	210
380-415	320	360
460-480*	380	420

All 512C ratings from 4 to 32A can be operated on supplies from 110 to 480Vac

*Requires 110-415V Auxiliary Supply

Overload - 150% for 60 seconds
Field Supply - 3 Adc
Supply Frequency - 50/60 Hz ± 5%

SERVICE CONDITIONS

Ambient Temperature; 0-40°C

Altitude; Up to 1000m ASL

Protection; IP00

POTENTIOMETER ADJUSTMENTS

Acceleration Ramp (1-40s)
IR Compensation

Deceleration Ramp (1-40s)
Minimum Speed

Speed Stability
Maximum Speed

Current Limit (0-150%)
Zero Offset

INPUTS/OUTPUTS

Digital Inputs

- Run (Active high)
- Stall Override

Analogue Inputs

- Speed Setpoint
- Aux' Speed Setpoint
- Tacho' Feedback
- Current Limit
- Minimum Speed

Digital Outputs

- Healthy
- Zero Speed

Analogue Outputs

- Speed
- Current
- Ramp
- Total Speed Setpoint
- +/- 10v Reference

SWITCH SELECTABLE FEATURES

Tacho'/Armature Voltage Feedback

Current Calibration

Speed Calibration

STANDARDS

CE Marked
Low Voltage Directive VDE 0160
UL and c-UL listing pending

EMC Emissions EN50081-1
(with optional filter)
EMC Immunity EN50082-2

OPTIONS

RFI Filters

A range of space saving Radio Frequency Interference Filters are available to comply with the relevant European EMC Directives.

Fastpack 512C

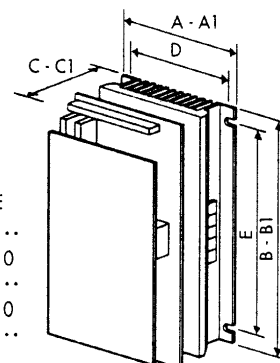
A range of 512C drives supplied ready mounted and wired into electrical cabinets for immediate installation. A wide choice of pre-engineered system options ensure short delivery times at economical prices.

DIMENSIONS

- A - width
- B - height
- C - depth
- D - fixing centre
- E - fixing centres

Type	A	A1	B	B1	C	C1	D	E
512C/04/08/16	160	165	240	264	90	135	148	210
512C/32	160	165	240	264	130	200	148	210

A1, B1, C1 dimensions with matched optional RFI filter



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