

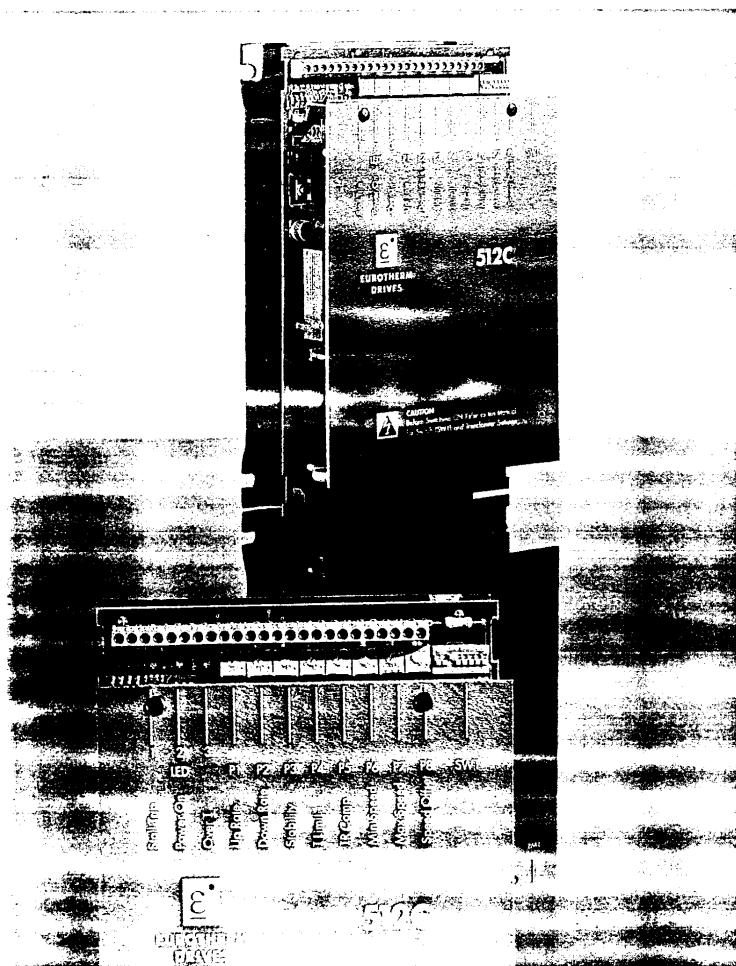
[查询"512C/08/RT1"供应商](#)

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.



**EUROTHERM  
DRIVES**



**512C series  
DC motor  
controllers**

## GENERAL DESCRIPTION

查询"512C/08/RT1"供应商

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

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

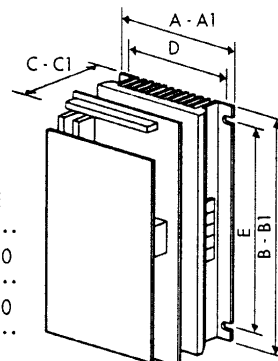
A range of 512C drives supplied ready mounted and wired into electrical cabinets for immediate installation. A wide choice of pre-engineered system options ensure short delivery times at economical prices.

## 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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