

# 514C

## Up to 9kW



### DESCRIPTION

The regenerative 514C dc thyristor drive offers full four quadrant control of dc motors from single phase supplies.

As such it is ideal for applications involving overhauling loads or where rapid and accurate deceleration is required.

Together with the non-regenerative 512C they offer the perfect solution for lower power single motor and multi-drive applications.

**FOUR QUADRANT REGENERATIVE CONTROL**  
**110-500V AC SUPPLY SELECTION**  
**CE MARKED AND EMC COMPLIANT**  
**AC POWER CONTACTOR LOGIC AND SUPPLY**  
**MANY SYSTEM FEATURES**  
**EXTREMELY LINEAR CONTROL LOOPS**

EMC Filters

P. 137 and 138

### TECHNICAL SPECIFICATION

**Power Supply** - Main supply; 110-500V +10% user selectable.

Auxiliary supply; 110/120 or 220/240V +10% user selectable.

Single phase 50-60Hz +10%

**Ambient** - 0-40°C, up to 1000m ASL without derating

**Overload** - 150% for 60 seconds

### FEATURES

#### User Facilities

Four quadrant regenerative control

Separate ac auxiliary supply

Ac supply contactor logic

Torque or speed control

Buffered speed output (10V, 10mA)

Buffered ramp output (10V, 10mA)

Buffered total setpoint output Zero speed/zero

Setpoint output (10V, 10mA)

Buffered current output (10V, 10mA)

Three setpoint inputs

Torque limit input

+10V and -10V analogue reference

Torque or speed control supplies

+24V digital reference supply

Health output

Zero speed/zero setpoint output

#### Potentiometer Adjustments

Maximum speed

Current limit

Acceleration ramp (0-40 seconds)

Deceleration ramp (0-40 seconds)

IR compensation

Speed loop gain – proportional

Speed loop gain – integral

Current gain – proportional

Current gain – integral

Zero speed offset

Zero speed threshold

### STANDARDS

CE Marked

EN61800-3 (EMC compliance) with external filter

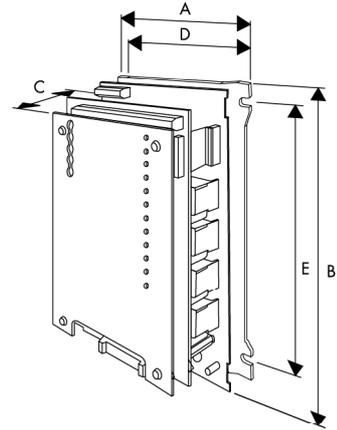
EN50178 (safety, low voltage directive)

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# DC DRIVES

Nominal Supply Voltage Vac	Armature Current Vdc	Field Voltage Vdc
110	90	100
240	180	210
415-500	320	360



Type	Armature Current
514C/04	4
514C/08	8
514C/16	16
514C/32	32

## Dimensions

Type	A	B	C	D	E	Weight(kg)
514C/04, 08	160	240	90	148	210	1.6
514C/16, 32	160	240	130	148	210	3.0

## Options

Product No.	Type	Description
LA057605U012	512C/04	Single Phase Fuse Kit
LA057605U016	512C/08	Single Phase Fuse Kit
LA057605U032	512C/16	Single Phase Fuse Kit
LA057605U050	512C/32	Single Phase Fuse Kit
LA050063		Potentiometer Kit