

## 514C Series

### Single phase Analog Isolated Regenerative Converters from 4 to 32A

#### DESCRIPTION

The range of 514C Series regenerative converters, with single phase AC supply, offers full four-quadrant control of wound field or permanent magnet DC motors. It is ideal for applications requiring accurate braking of high-inertia loads or their fast and precise deceleration. 514C Series and its non-regenerative version 512C have been designed to offer the ideal solution for speed control of single and multi-motor applications.



#### FOUR-QUADRANT REGENERATIVE CONTROL

**SELECTABLE SUPPLY 110V – 500V**

**CE MARKED - EMC CONFORMITY**

**INTEGRATED CONTACTOR CONTROL**

**MULTIPLE INPUTS FOR SPEED/CURRENT REFERENCE**

**EXTREMELY LINEAR CONTROL LOOPS**

#### SPECIFICATIONS

##### Supply

Auxiliary: 110/120Vac or 220/240Vac  $\pm 10\%$  selectable

Power: 110–480Vac selectable

##### Operating Temperature

0–40°C

##### Altitude

Up to 1000m ASL without derating

##### Overload

150% for 60 seconds

##### Degree of protection

IPO0

##### Field supply

3Adc

##### Inputs/Outputs

Analog Inputs

5 total

Analog Outputs

4 ( $\pm 10V$ )

Digital Inputs

3 total, 1 (10V) and 2 (10-24V)

Relay Digital Outputs

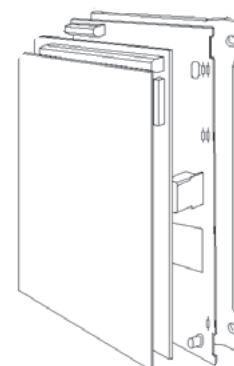
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Part Number	Armature Current [Adc]	Input Voltage [Vac]	Armature Voltage [Vdc]	Field Voltage [Vdc]
514C/040/120	4	110 - 480 selectable	90	100
514C/040/240			180	210
514C/040/460			320	360
514C/080/120	8		90	100
514C/080/240			180	210
514C/080/460			320	360
514C/160/120	16		90	100
514C/160/240			180	210
514C/160/460			320	360
514C/320/120	32		90	100
514C/320/240			180	210
514C/320/460			320	360

#### Dimensions and Weight

Type	H	W	D	Weight
514C/04	9.4 (240)	6.2 (160)	3.5 (89)	3.5 (1.6)
514C/08				
514C/16				
514C/32			4.8 (130)	6.6 (3)

All dimensions are in inches (mm). Weight is in lbs. (kg).



#### INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC in compliance with standard:

- EN61800-3 (Environment 1 and 2 with external filter)

Conforms to EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)

**CE MARKED**