

Analog DC Drives

512C Series

Up to 32A



Technical Specifications

AC Supply Voltage Single Phase	110-115V, 220-240V or 380-415V ±10%; 50-60Hz ±5%
Ambient	0-40°C, Altitude max 1000m
Overload	150% for 60 seconds
Speed range	20:1 (arm v f/b), 100:1 (tach fb)
Voltage selection	Jumper selection of supply voltage
Control	Speed or torque
Diagnostic LED's	Power on, Stall, Overcurrent trip
Protection	Electronic overcurrent protection
Analog Inputs	Setpoint ramp 0-10V Auxiliary speed setpoint 0-10V Current limit 0-7.5V Tach gen input 0-350VDC
Analog Outputs (Buffered)	Speed 0-10V, 5mA Current 0-5V, 5mA Ramped setpoint 0-10V, 5mA
Reference supply	10VDC (5mA)
Digital Inputs (2)	Run, Stall override
Digital Outputs (2)	Drive Healthy, Zero Spd/Zero Setpt
Potentiometer Adjustments	
Speed (2)	Maximum/Minimum
Current limit	0-110%
Speed stability	
Ramp time (2)	Accel, Decel (1-40 seconds)
IR Compensation	
Zero speed offset	

Description

Isolated control circuitry, a host of features, and extremely linear control loop make the 512C ideal for single motor or multi-drive applications. The 512C is suitable for controlling permanent magnet or field wound DC motors in speed or torque control, and can be used “open loop” with armature voltage feedback, or with DC tach feedback for enhanced regulation and speed range. Chassis mount, IP00 rating.

Typical applications include:

- Centrifugal fans and pumps
- Extruders and mixers
- Conveyors

Part Number	Armature Current
512C/040/000	4A
512C/080/000	8A
512C/160/000	16A
512C/320/000	32A

Common Specifications: 512C and 514C

Voltage Ratings:

Supply Voltage	Armature Voltage	Field Voltage
110 VAC	90 VDC	3A @ 100 VDC
240 VAC	180 VDC	3A @ 210 VDC
415-480 VAC	320 VDC	3A @ 360 VDC

Standards:

CE Marked

EN61800-3 (EMC) with external filter
EN50178 (safety, low voltage directive)

