

# Electric Motor Drive Inverter

This electric motor drive inverter supports various voltage levels and control modes, including vector control with or without speed sensors. It also supports user programming for secondary development and features multiple field bus communication modes.



## ADDITIONAL IMAGES



## Overview

### C300 Series High-Performance Inverter

The C300 Series Inverter is a versatile, high-precision solution designed for robust electric motor control across diverse industrial applications. Engineered with advanced vector control algorithms, it ensures superior low-speed stability and high-frequency torque capacity while supporting multiple control modes including SVC and FVC. With comprehensive built-in protection mechanisms and flexible communication interfaces, this inverter optimizes motor performance, reduces energy consumption, and maintains operational reliability in demanding environments.

## Technical Capabilities

### Control Modes

- Vector control with speed sensor (FVC)
- Vector control without speed sensor (SVC)
- V/F control mode
- V/F separation mode control

### Voltage Levels

Single-phase 220V, Three-phase 220V, Three-phase 380V, Three-phase 480V, Three-phase 520V, Three-phase 690V, Three-phase 1140V

## Performance Metrics

### Key Performance Metrics

**500 Hz**

Max Frequency

**16 KHz**

Max Carrier Frequency

**0.02 %**

FVC Speed Precision

### Overload Capacity

Type	60s Overload	3s Overload
G Type	150% I <sub>e</sub>	180% I <sub>e</sub>
P Type	120% I <sub>e</sub>	150% I <sub>e</sub>

## Features & Connectivity

### Communication & Encoders

- Modbus-RTU
- Differential Encoder
- Open Collector Encoder
- Rotary Transformer Encoder
- UVW Encoder

### Advanced Functions

User Programming • Virtual I/O • PT100/PT1000 Protection • Fast Current Limiting • Multi-motor Switching • PID Process Control

## Compliance

### Certifications & Standards

- EMC: EN61800-3
- EMC: EN55011
- EMC: EN61000-6-2
- LVD: EN61800-5-1