

AC INDUCTION MOTOR CONTROLLERS

MODEL 1236/1238



DESCRIPTION

Curtis Models 1236 and 1238 provide advanced control of AC induction motors performing on-vehicle traction drive or hydraulic pump duties. They offer vehicle developers a highly cost-effective combination of power, performance and functionality.

APPLICATION

Designed primarily for use on medium to large material handling vehicles such as counterbalance or warehouse trucks. The Model 1236 is equally suitable for light-On-Road passenger vehicles and utility vehicles. The larger Model 1238 is also intended for use on all heavy-duty applications such as Tow Tractors and Airport Ground Support Equipment (GSE).

Patents Pending

Only Curtis AC can offer:

- **Curtis VCL -Vehicle Control Language** is an easy to use programming language that allows vehicle developers to write powerful logic functions and create a 'virtual system controller'. Curtis offers customers VCL development tools and training. Curtis also provides a VCL service where Curtis engineers will work with the OEM to create any custom VCL code required.
- **Indirect Field Orientation (IFO) vector control** algorithm generates the maximum possible torque and efficiency across the entire speed range. Advanced Curtis IFO vector control provides superb drive 'feel', improved speed regulation and increased gradeability.
- **Curtis Auto-Tune** function enables quick and easy characterization of the AC motor without having to remove it from the vehicle. Curtis AC controllers are fully compatible with any brand of AC motor.
- **Dual-Drive functionality** is standard, allowing correct control of vehicles such as 3-wheel counterbalance trucks or other applications featuring twin traction motors. This function ensures smooth and safe operation, minimal tire wear and correct load sharing between the traction motors at all times.
- **Configurable CANbus** connection allows communication with other CANbus enabled devices. These models are CANopen compatible and can be further customized and configured using VCL.
- **Integrated System Controller** - More than just motor controllers, they are also powerful system controllers. They feature a comprehensive allocation of multifunction I/O pins for use as analog inputs, digital inputs, contactor coil drivers and proportional valve drivers. In addition to this local I/O, these controllers can use VCL to map and configure the remote I/O available on other CANbus devices, send messages to CAN displays and thus control and monitor the entire system.

FEATURES

Advanced functionality, compact power

- High frequency, silent operation across the 0-300Hz stator frequency range.
- Models available for 350-650A output at 24-80V system voltages. These are true 2 minute RMS ratings, not short duration 'boost' ratings.
- Powerful operating system allows parallel processing of vehicle control tasks, motor control tasks and user configurable programmable logic.
- Advanced Pulse Width Modulation techniques produce low motor harmonics, low torque ripple and minimized heating losses, resulting in high efficiency.

Ac Induction Motor Controllers Fsip

ML Morrison



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