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PRODUCT: 3G3RX Series AC Drives
TYPE: Product Release

3G3RX Series Advanced AC Drives Offer Excellent Speed and Torque Regulation with Closed Loop Vector Control

Omron's new 3G3RX Series AC Drives extend our available horsepower range and fills a key functionality gap. This environmentally friendly product is currently available in 3-phase 240V and 3-phase 480V models, up to 75 hp; models up to 500 hp will be available soon. The PWM algorithm employed by the 3G3RX utilizes micro-surge voltage suppression that allows it to be used with motors that are not rated for AC Drive duty service. Static and rotational auto-tune are possible, to fine tune AC Drive operation with a specific motor. Simple 8-step positioning is possible within the 3G3RX, eliminating the need for servo control in general purpose positioning applications.



Key Features and Benefits

- **V/Hz, (sensor-less) open loop vector and closed loop vector control** support high-performance applications such as extruders, winders, and packaging machines
- **8-step simple positioning** with teaching function; combine AC drive with an encoder for feedback
- **Modified parameter list** can be reviewed
- **Allows zero speed load holding** with 200% starting torque at 0.3Hz in vector mode
- **Built-in RS-485 Modbus** communications
- **Micro-surge Voltage Suppression** reduces motor burn out, allows use of most general purpose induction motors
- **Removable control terminals** simplify replacements and upgrades
- **Built-in PID function** eliminates the need for external controller
- **Built-in emergency stop** meets EN954-1 standard
- **Stall prevention feature** limits over-current conditions
- **Over-current and Overvoltage trip suppression** reduces nuisance tripping
- **Built-in radio noise filter** (400V models) lowers noise impact on other drives and equipment
- **Automatic Energy Saving Function** significantly reduces energy usage in constant speed applications
- **Automatic restart** allows automatic recovery from momentary power loss
- Removable digital operator
- Optional CE filter
- RoHS compliant
- **Wide selection of models:**
 - 7.5 to 75 hp, 240 VAC 3-phase
 - 7.5 to 75 hp, 480 VAC 3-phase

Typical Applications

- Elevators
- Winders
- Conveyors
- General Machinery
- Process Lines
- Extruders
- Positive Displacement Pumps
- Packaging
- Material Handling

Get More Information

Ask for Omron's AC Drives Brochure (Cat. No. I20I-E-01) or [click here](#) to view it on-line.