

MICROMASTER Vector and MIDIMASTER Vector — 6SE32



The **MICROMASTER Vector**, and **MIDIMASTER Vector**, 6SE32, are built to be the inverter of choice for their innovative design, simplicity, technology, and workmanship. The inverters are very compact and designed for operation anywhere in the world. They offer an impressive array of performance and flexibility features not common in standard general purpose drives. These drives are available with Sensorless Vector Control that provides the ultimate in torque-developing power to tame any tough application. The MICROMASTER Vector and MIDIMASTER Vector are the best general purpose drives available today.

Features

- MICROMASTER Vector drives range in power ratings from 1/6 to 5HP @ 230V, and 1/2 to 10HP @ 460V
- MIDIMASTER Vector drives range from 7½ to 60HP @ 230V, and 15 to 100HP (125HP VT) @ 460V

- Sensorless Vector Control with adaptive motor model for high dynamic performance and very high starting torque under all conditions
- Worldwide voltage ranges for a global product:

1 and 3 phase	208–240 V AC ±10%
3 phase	380–500 V AC ±10%
3 phase	525–575 V AC ±15%
- Simple to adjust and operate using the standard 7-button membrane keypad for programming and drive control. Optional plug-in LCD clear text operator control panel (OPM2) with 4 line by 16-character display simplifies user interface even further
- RS485 serial interface with USS Protocol. Optional PROFIBUS-DP module for communication speed-up to 12MB
- PID control loop for temperature and pressure regulation
- Maximum overload: 150% for 60 seconds and 200% for 3 seconds
- Optimal dynamic response time achieved with fast 32 bit ASIC design
- FCL (Fast Current Limit) for reliable trip-free operation
- Extended temperature range of 0-50°C as standard for MICROMASTER Vector
- MIDIMASTER Vector ambient rating is 40°C as standard
- Built-in high performance Class A RFI filter on single-phase 230V units
- (6) fully programmable binary inputs for application flexibility
- Output frequency: 0.01 Hz resolution to 650Hz
- (2) analog inputs (unipolar or bipolar—switch selectable) high resolution 10 bit analog channel
- (1) analog output, (2) for MIDIMASTER Vector, 10 bit resolution
- (2) programmable relay outputs, (1) NO and (1) Form C, 30VDC and 120VAC rated
- NEMA 12/4 protection available for MIDIMASTER Vector
- Built in DIN rail mounting clip on frame size A units
- Programmable accel/decel, 0.1s to 650s, with selectable ramp smoothing (S curve)
- Fault memory of last (4) faults in order of occurrence
- Warning display and memory
- Ease of commissioning with automatic motor calibration
- Common parameter sets across the complete range of product and GP drive family makes starting Siemens drive products a snap
- Braking by DC Injection, COMPOUND BRAKING™, or by Pulsed Resistor Braking (Dynamic Braking)
- High reliability by maintaining important international quality standards such as UL, cUL, CE, VDE, DIN, and ISO 9001