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# MC Series Drives

**Flexible, simple, rugged, robust!**






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# MC Series | Our promise

## Commitment to Value

The finest product at the best price is serious business. It takes continuous life cycle management to achieve this goal. We are always investigating techniques to improve efficiency and take advantage of the latest microprocessor and power module technology. When we achieve efficiency gains or material cost reductions, we pass those savings on to our customers. This simple philosophy has permitted us to build and maintain a very loyal base of customers.

## Commitment to Quality

From product design to manufacture, service and training, quality is at the foundation of Lenze-AC Tech's corporate philosophy. A quality product is built of superior materials by highly skilled personnel equipped with state-of-the art instruments. And a quality product is backed by expert training, knowledgeable sales representatives and experienced repair personnel. Continuous life cycle improvement fueled by our pledge to our Customers drives our technology forward. We feel so strongly about quality that each MC Drive is backed with a two-year warranty.

## Commitment to Innovation

We pride ourselves on delivering products to the market that are designed to meet specific customer needs. Our portfolio of innovative products is broad and covers very simple variable speed applications up through complex motion control. Each product, including the SMVector, is positioned so our customers pay only for the level of technology necessary for their application.

## Commitment to Simplicity

One of the cornerstones of our design philosophy is to make our products simple to use. Technology only benefits the user if it can be easily understood and applied. The SMVector's intuitive display and EPM technology dramatically simplifies installation, commissioning and operation for our customers.

## Commitment to Performance

The SMVector is in a class by itself when it comes to performance. At the heart of the SMV are sophisticated vector algorithms that achieve new heights in torque production and speed control. This technology breakthrough allows our customers to cover a full range of applications from simple speed control through advanced torque and process control with the same product.

## Our Promise

At Lenze - AC Tech it is not good enough to deliver part of a promise. Our products deliver the entire package; Price Leadership, Quality, Innovation, Simplicity and Performance.

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# MC Series | Specifications, Enclosures & Tools

## Specifications

| | |
|---|---|
| Output wave form | High carrier frequency, sine coded,pulse width modulated (PWM) |
| Input voltage ratings | 240/120,240/200, 480/400,590/480 VAC |
| Input voltage tolerance | +10%,-15% of rating |
| Input frequency tolerance | 48 to 62 Hz |
| Output frequency | 0-650 Hz (optional to 1000 Hz on M1000) |
| Carrier frequency | 2.5 kHz to 14 kHz (Drive rated at 8 kHz) |
| Frequency stability | +0.00006% / °C |
| Overload current capacity | 180% for 30 seconds, 150% for one minute (at 8 kHz) |
| Service factor | 1.0 |
| Power factor | Near unity |
| Efficiency | Up to 98.5% |
| Speed reference follower | 0-10 VDC or 4-20 mA |
| Control voltage | 15 VDC |
| Analog outputs | 0-10 VDC,or 2-10 VDC (4-20 mA with 500 ohm impedance).Proportional to speed and load |
| Digital outputs | Form C relay:2A at 28 VDC or 120 VAC<br>Two open-collector outputs: 40mA at 30 VDC |
| Serial communications | RS485 networkable, Modbus (standard) and Metasys (optional with the M3000) |
| Storage temperature | -20° to 70° C<br>Chassis -10°– 55°C<br>Type 1 (IP31) -10°– 50°C<br>Type 4 (IP65) -10°– 40°C<br>Type 12 (IP54) -10°– 40°C |
| Ambient humidity | Less than 95%, (non-condensing) |
| Maximum altitude | 3300 Feet (1000 meters) w/o derating |
| Standards | UL, cUL, CE(LVD) |
| Warranty | 2 Years |

## System Protection

- Input line voltage calibration: automatically or manually optimizes over and under voltage trip levels
- Thermal overload: Inverse I²t motor thermal protection
- Two critical frequency avoidance ranges: with adjustable bandwith
- Programmable automatic restarting after fault for unattended applications
- Speed reference selection: keypad or analog input
- Password protection: enable/disable and setting (0000-9999)
- Monitor mode: enable/disable allows view-only of password protected parameter settings
- Parameter reset: reset to factory defaults (choice of 50 Hz or 60 Hz factory settings)
- Fault history: View log of eight previous trips with drive status at time of trip
- Fault history reset

## World Class Control

- Four preset speeds
- Independent Accel and Decel
- DC injection braking timed or continuous on starting or stopping with programmable maximum load level
- Dynamic brake enable/disable (dynamic braking requires option card)
- Base frequency adjustment to calibrate V/Hz to motor requirements with constant or variable torque curves
- Coast or ramp stopping
- Auto and Manual mode enable/disable
- Units display calibration and decimal point adjustment
- Load meter calibration
- Adjustable contrast setting for easy viewing of display from any angle
- Load reference calibration
- Load indicating output signal selection: 0-10 VDC or 4-20 mA
- Load/speed indicating output signal calibration
- Four programmable terminals for speed reference and control activation
- Programmable terminal for external trip activation or manual reset

## Available Enclosures



**NEMA Type 1**

A true general purpose enclosure, the most commonly used in industry. The Type 1 enclosure allows for a free exchange of air to keep the electronics cool while keeping the enclosure size to a minimum. Installation must be in a relatively clean environment.



**NEMA Type 12**

Intended for environments that contain dust, oil or other airborne contaminants. The Type 12 enclosure is gasketed to protect the electronics. AC Tech recommends the Type 4 enclosure for this duty in the smaller power sizes as we can provide the higher degree of protection at the same price. Type 12 is available in the higher sizes where Type 4 would be cost prohibitive.



**NEMA Type 4**

For "wash-down" duty, the enclosure is gasketed to protect the electronics from water sprayed directly on and around the drive, typically to keep the equipment clean. And no cooling fans are needed.



**NEMA Type 4X**

Identical to Type 4 (water-tight) but must also protect from caustic agents. AC Tech manufactures these drives using stainless-steel enclosures and anodized heat sinks which provide superior heat transfer and greater structural integrity.



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# MC Series | Ratings & Dimensions

| HP | Voltage | Input Phase | 3 Phase Output Amps | NEMA 1 Model (See Note 1) | H x W x D (inches) | H x W x D (mm) | NEMA 4 & 12 Model (See Notes) | NEMA 4X Model | H x W x D (inches) | H x W x D (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **0.25 (0.18kW)** | 240/120 | 1Ø | 1.4 | M(*)103SB | 7.50 x 4.70 x 3.33 | 190 x 119 x 85 | M1103SC | M1103SE | 7.88 x 6.12 x 3.63 | 200 x 155 x 92 |
| **0.5 (0.37kW)** | 240/120 | 1Ø | 2.2 | M(*)105SB | 7.50 x 6.12 x 3.63 | 190 x 155 x 92 | M1105SC | M1105SE | 7.88 x 7.86 x 3.75 | 200 x 200 x 95 |
| | 240 | 1Ø | 2.2 | M(*)205SB | 7.50 x 4.70 x 3.63 | 190 x 119 x 92 | M1205SC | M1205SE | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| | 240/200 | 3Ø | 2.2/2.5 | M(*)205B | 7.50 x 4.70 x 3.63 | 190 x 119 x 92 | M1205C | M1205E | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| **1 (0.75kW)** | 240/120 | 1Ø | 4.0 | M(*)110SB | 7.50 x 6.12 x 4.22 | 190 x 155 x 107 | M1110SC | M1110SE | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 240 | 1Ø | 4.0 | M(*)210SB | 7.50 x 4.70 x 4.33 | 190 x 119 x 110 | M1210SC | M1210SE | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| | 240/200 | 3Ø | 4.0/4.6 | M(*)210B | 7.50 x 4.70 x 4.33 | 190 x 119 x 110 | M1210C | M1210E | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| | 480/400 | 3Ø | 2.0/2.3 | M(*)410B | 7.50 x 4.70 x 3.63 | 190 x 119 x 92 | M1410C | M1410E | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| | 590 | 3Ø | 1.6 | M(*)510B | 7.50 x 4.70 x 3.63 | 190 x 119 x 92 | M1510C | M1510E | 7.88 x 6.12 x 4.35 | 200 x 155 x 110 |
| **1.5 (1.1kW)** | 240/120 | 1Ø | 5.2 | M(*)115SB | 7.50 x 6.12 x 4.22 | 190 x 155 x 107 | M1115SC | M1115SE | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 240 | 1Ø | 5.2 | M(*)215SB | 7.50 x 6.12 x 4.22 | 190 x 155 x 107 | M1215SC | M1215SE | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 240/200 | 3Ø | 5.2/6.0 | M(*)215B | 7.50 x 4.70 x 4.33 | 190 x 119 x 110 | M1215C | M1215E | 7.88 x 6.12 x 5.25 | 200 x 155 x 133 |
| **2 (1.5kW)** | 240 | 1Ø | 6.8 | M(*)220SB | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1220SC | M1220SE | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 240/200 | 3Ø | 6.8/7.8 | M(*)220B | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1220C | M1220E | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 480/400 | 3Ø | 3.4/3.9 | M(*)420B | 7.50 x 6.12 x 4.22 | 190 x 155 x 107 | M1420C | M1420E | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 590 | 3Ø | 2.7 | M(*)520B | 7.50 x 6.12 x 4.22 | 190 x 155 x 107 | M1520C | M1520E | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| **3 (2.2kW)** | 240 | 1Ø | 9.6 | M(*)230SB | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1230SC | M1230SC | 7.88 x 7.86 x 5.90 | 200 x 200 x 150 |
| | 240/200 | 3Ø | 9.6/11.0 | M(*)230B | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1230C | M1230C | 7.88 x 7.86 x 5.90 | 200 x 200 x 150 |
| | 240/400 | 3Ø | 4.8/5.5 | M(*)430B | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1430C | M1430C | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| | 590 | 3Ø | 3.9 | M(*)530B | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1530C | M1530C | 7.88 x 7.86 x 4.90 | 200 x 200 x 124 |
| **5 (3.7kW)** | 240/200 | 3Ø | 15.2/17.5 | M(*)250B | 7.88 x 7.86 x 5.94 | 200 x 200 x 151 | M1250C | M1250E | 9.75 x 10.26 x 7.20 | 248 x 261 x 183 |
| | 480/400 | 3Ø | 7.6/8.7 | M(*)450B | 7.50 x 6.12 x 5.12 | 190 x 155 x 130 | M1450C | M1450E | 7.88 x 7.86 x 5.90 | 200 x 200 x 150 |
| | 590 | 3Ø | 6.1 | M(*)551B | 7.88 x 7.86 x 5.94 | 200 x 200 x 151 | M1550C | M1550E | 7.88 x 7.86 x 5.90 | 200 x 200 x 150 |
| **7.5 (5.5kW)** | 240/200 | 3Ø | 22/25 | M(*)275B | 9.38 x 7.86 x 6.84 | 238 x 200 x 174 | M1275C | M1275E | 11.75 x 10.26 x 8.35 | 298 x 261 x 212 |
| | 480/400 | 3Ø | 11.0/12.6 | M(*)475B | 9.38 x 7.86 x 6.25 | 238 x 200 x 159 | M1475C | M1475E | 9.75 x 10.26 x 7.20 | 248 x 261 x 183 |
| | 590 | 3Ø | 9.0 | M(*)575B | 9.38 x 7.86 x 6.25 | 238 x 200 x 159 | M1575C | M1575E | 9.75 x 10.26 x 7.20 | 248 x 261 x 183 |
| **10 (7.5kW)** | 240/200 | 3Ø | 28/32 | M(*)2100B | 11.25 x 7.86 x 6.84 | 286 x 200 x 174 | M12100C | M12100E | 13.75 x 10.26 x 8.35 | 349 x 261 x 212 |
| | 480/400 | 3Ø | 14.0/16.0 | M(*)4100B | 9.38 x 7.86 x 6.84 | 238 x 200 x 174 | M14100C | M14100E | 11.75 x 10.26 x 8.35 | 298 x 261 x 212 |
| | 590 | 3Ø | 11.0 | M(*)5100B | 9.38 x 7.86 x 7.40 | 238 x 200 x 188 | M15100C | M15100E | 11.75 x 10.26 x 8.35 | 298 x 261 x 212 |
| **15 (11kW)** | 240/200 | 3Ø | 42/48 | M(*)2150B | 12.75 x 7.86 x 6.84 | 324 x 200 x 174 | M12150C | M12150E | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| | 480/400 | 3Ø | 21/24 | M(*)4150B | 11.25 x 7.86 x 6.84 | 286 x 200 x 174 | M14150C | M14150E | 13.75 x 10.26 x 8.35 | 349 x 261 x 212 |
| | 590 | 3Ø | 17.0 | M(*)5150B | 12.75 x 7.86 x 6.84 | 324 x 200 x 174 | M15150C | M15150E | 13.75 x 10.26 x 8.35 | 349 x 261 x 212 |
| **20 (15kW)** | 240/200 | 3Ø | 54/62 | M(*)2200B | 12.75 x 10.26 x 7.74 | 324 x 261 x 197 | M12200D | ---------- | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| | 480/400 | 3Ø | 27/31 | M(*)4200B | 12.75 x 7.86 x 6.84 | 324 x 200 x 174 | M14200C | M14200E | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| | 590 | 3Ø | 22 | M(*)5200B | 12.75 x 7.86 x 7.40 | 324 x 200 x 188 | M15200C | M15200E | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| **25 (18.5kW)** | 240/200 | 3Ø | 68/78 | M(*)2250B | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 | M12250D | ---------- | 20.25 x 10.26 x 8.35 | 514 x 261 x 212 |
| | 480/400 | 3Ø | 34/39 | M(*)4250B | 12.75 x 10.26 x 7.74 | 324 x 261 x 197 | M14250D | ---------- | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| | 590 | 3Ø | 27 | M(*)5250B | 12.75 x 10.26 x 7.74 | 324 x 261 x 197 | M15250D | ---------- | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| **30 (22kW)** | 240/200 | 3Ø | 80/92 | M(*)2300B | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 | M12300D | ---------- | 20.25 x 10.26 x 8.35 | 514 x 261 x 212 |
| | 480/400 | 3Ø | 40/46 | M(*)4300B | 12.75 x 10.26 x 7.74 | 324 x 261 x 197 | M14300D | ---------- | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| | 590 | 3Ø | 32 | M(*)5300B | 12.75 x 10.26 x 8.25 | 324 x 261 x 210 | M15300D | ---------- | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 |
| **40 (30kW)** | 240/200 | 3Ø | 120/104 | M(*)2400B | 25.00 x 13.00 x 10.50 | 635 x 330 x 212 | ---------- | ---------- | | |
| | 480/400 | 3Ø | 52/60 | M(*)4400B | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 | M14400D | ---------- | 20.25 x 10.26 x 8.35 | 514 x 261 x 212 |
| | 590 | 3Ø | 41 | M(*)5400B | 15.75 x 10.26 x 8.35 | 400 x 261 x 212 | M15400D | ---------- | 20.25 x 10.26 x 8.35 | |
| **50 (37.5kW)** | 480/400 | 3Ø | 65/75 | M(*)4500B | 19.75 x 10.26 x 8.55 | 502 x 261 x 217 | M14500D | ---------- | 21.00 x 13.72 x 8.35 | 533 x 348 x 212 |
| | 590 | 3Ø | 52 | M(*)5500B | 19.75 x 10.26 x 8.55 | 502 x 261 x 217 | M15500D | ---------- | 21.00 x 13.72 x 8.35 | 533 x 348 x 212 |
| **60 (45kW)** | 240/200 | 3Ø | 177/154 | M(*)2600B | 47.00 x 16.64 x 11.85 | 1194 x 423 x 301 | ---------- | ---------- | | |
| | 480/400 | 3Ø | 77/88 | M(*)4600B | 19.75 x 10.26 x 8.55 | 502 x 261 x 217 | M14600D | ---------- | 21.00 x 13.72 x 8.35 | 533 x 348 x 212 |
| | 590 | 3Ø | 62 | M(*)5600B | 19.75 x 10.26 x 8.55 | 502 x 261 x 217 | M15600D | ---------- | 21.00 x 13.72 x 8.35 | 533 x 348 x 212 |
| **75 (55kW)** | 480/400 | 3Ø | 110/96 | M(*)4750B | 29.00 x 16.64 x 11.85 | 737 x 423 x 301 | M14750D | ---------- | 37.00 x 18.00 x 13.30 | 940 x 457 x 338 |
| **100 (75kW)** | 480/400 | 3Ø | 143/124 | M(*)41000B | 29.00 x 24.42 x 11.85 | 737 x 620 x 301 | M141000D | ---------- | 39.00 x 26.00 x 13.30 | 991 x 660 x 338 |
| **125 (90kW)** | 480/400 | 3Ø | 179/156 | M(*)41250B | 29.00 x 24.42 x 11.85 | 737 x 620 x 301 | M141250D | ---------- | 39.00 x 26.00 x 13.30 | 991 x 660 x 338 |
| **150 (110kW)** | 480/400 | 3Ø | 207/180 | M(*)41500B | 29.00 x 36.66 x 11.85 | 737 x 931 x 301 | ---------- | ---------- | | |

**NEMA 1**
Note 1: "M(*)" signifies either M1 for the M1000 series or M3 for M3000 series.

**NEMA 4 and NEMA12**
Note 2: Replace the "M1" at the beginning of the model number with "M3" to specify a M3000 series drive.
Note 3: Model numbers ending with "C" are suitable for NEMA 4 and NEMA 12 applications.
Note 4: Model numbers ending with "D" are suitable for NEMA 12 applications.

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# MC Series | Features and Benefits

## The M1000 industrial drives

The intelligent, versatile and cost-effective choice for industrial applications.

From harsh environments to high torque loads, the M1000 Series microdrives meet the toughest requirements with outstanding reliability, at a low cost. The easy-to-program M1000 offers full features, extensive I/O, and a full array of programmable functions. The M1000 is available in a power range of 1/4 to 150 HP (0.18 - 110 kW) and voltages ranging from 115 to 575 VAC.

With its Enhanced Torque System (ETS), a highly efficient sine coding algorithm and "auto-voltage boost," the M1000 delivers maximum starting and accelerating torque and tight speed regulation, even under fluctuating load conditions. A built-in, UL-approved thermal overload provides full motor protection.

## M1000 drive features

- Manual boost for high starting torque
- Auto-boost for high torque acceleration at any speed
- Adjustable units display: Hz, RPM, %, /SEC, /MIN, /HR
- Slip compensation for tight speed regulation even under fluctuating loads
- Control configuration: local, remote, both, serial communications
- Auxiliary outputs - two open collector outputs and a Form C relay. Functions include: Run, Fault, Inverse Fault, Fault Lockout, At Commanded Speed, Above a Preset Speed, Current Limit, Auto/ Manual Mode Indication, PID High/Low Alarms
- Modbus® Serial Communication Protocol

## M1000 and M3000 options

Expand the capabilities of your MC drive with the following options. All options can be factory installed or field installed.

- Dynamic Braking: for faster stopping or deceleration
- Additional Form-C relay
- Remote Keypad
- PID: direct or reverse acting with adjustable Proportional, Integral, and Derivative gains, signal calibration, high and low level alarms.

## The M3000 industrial drives

The choice when your process control demands fast acceleration and response.

Designed expressly for use where the motor control is an integral part of a process, the M3000 is rated for constant torque applications but can easily be configured for variable torque applications.

Most "process control" drives are designed for variable torque applications where the motor is driving a centrifugal fan or pump. As such, these drives are limited to 110% current for overload situations such as acceleration or responding to a feedback change.

The MC3000 is a true Constant Torque drive rated for 180% of rated current for 30 seconds and 150% for one minute; this allows faster response to system changes and the ability to apply the MC3000 to non-centrifugal applications such as compressors, conveyors and other "constant torque" loads.

The M3000 is available in the same power ranges and voltages as the M1000.

## M3000 drive features

- Speed synchronized automatic restart after fault
- Loss of follower signal action: fault or go to preset speed
- Control configuration: local, remote, serial communications, keypad, terminal strip, PID mode
- Adjustable units display: PSI, CFM, GPM, FPM, IN, FT, Hz, RPM, %, /SEC, /MIN, /HR
- Auxiliary outputs - two open collector outputs and a Form C relay: Functions include Loss of Speed Reference Signal in addition to those listed for the M1000.
- Sleep mode with adjustable speed threshold and time.
- Metasys® Serial Communication Protocol (optional)
- Modbus Serial Communication Protocol (standard)




## Display that makes sense

The MC Series keypad display has been designed to make it easy to understand what is happening with the AC motor that is driving your machine or process. Motor frequency (Hz) may not make as much sense to your operator as motor speed (rpm) or conveyor speed (fpm) or flow rate (gpm). Displays can be configured to show what you need to see, in the units that you need to see them in. Because our displays are in English, programming the MC is easy to understand, often eliminating the need to have the manual in one hand while programming with the other!

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***"Customer Service** has always been and will always be our number one commitment. Our success depends on it."*





***Driving design** technology forward means we never stop thinking about process improvements. Did we deliver a quality product to market that meets the Customer's needs? That is the key.*



***Innovation** takes art and skill to combine what's new and what's proven to produce a product with exceptional form, fit and function.*

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