

# LEESON AC ADJUSTABLE SPEED DRIVES

## MICRO SERIES INVERTERS

### MICRO SERIES INVERTER DRIVES

Full feature, ultra-friendly operation. Programs and reads-out in plain English.

- Intelligent Power Module-IGBT's with a 16 bit Intel microprocessor.
- User choice programming with:
  - ✓ Choice of "Quick Start" factory presets.
  - ✓ Built-In English programmable options via the key touch-pad.
- Output Frequency: 0-120 Hz.
- Overload Current Capacity: 150% for one minute, based on nominal output of the control.
- Speed reference signal. Choice of potentiometer, 0-10VDC or 4-20mA inputs.
- Analog output signal, 0-10VDC, speed or load.
- Two auxiliary contacts: One form C relay and two open collector output.
- Preset speeds: Four.
- Slip compensation.
- Adjustable carrier frequency.
- Adjustable acceleration and deceleration times.
- Forward/Reverse.
- DC braking—time and voltage adjustable.
- Password protected.
- Constant torque—with adjustable current limit.
- Rugged, heavy-gauge steel enclosures with barrier type terminal strips.
- Underwriters Laboratories Listed.
- Dynamic Braking is available as a kit for installation in the field (see page 200), or as a Modification (see page 234).
- Remote keypad is available as a kit for installation in the field (see page 200), or as a Modification (see page 234).

Effective July 1, 2006, the Micro Series inverters have PID software built in making them a closed-loop inverter if needed.



NEMA 1

**Speedmaster® Micro Series compact inverters** offer "big drive" features for adapting standard or premium efficiency three phase motors to adjustable speed operation. Utilizing the latest microprocessor and advanced IGBT power conversion devices, these high performance controls program and read-out in plain English, eliminating the frustration and time involved in looking-up confusing coded symbols. Complete, rugged steel enclosures for NEMA 1 (IP31) or NEMA 4/12 (IP65) service do not require additional enclosure protection as with many plastic-housed compact drives. Built-in thermal overload protection reduces additional costs. Heavy duty wiring terminals accessible via three conduit openings on the bottom of the housing for power in/out and input/output signals speeds installation and reduces installation costs.

PDF file of Manual available at [www.leeson.com/Technical Information](http://www.leeson.com/Technical Information)



Dimension Table see page 201

### NEMA 1 (IP31) • THREE PHASE INPUT/OUTPUT

	HP	Output Amps	Input Voltage:☆	Catalog Number	App. Wgt. (lbs.)	Dimension Key
200-240 Volts	1/2	2.2	200-240	174914.00	6	B
	1	4.0	200-240	174915.00	6	C
	1 1/2	5.2	200-240	174916.00	6	C
	2	6.8	200-240	174917.00	9	E
	3	9.6	200-240	174918.00	9	E
	5	15.2	200-240	174919.00	11	F
	7 1/2	25.0	200-240	174545.00	13	M
	10	28.0	200-240	174551.00	15	L
	15	42.0	200-240	174557.00	19	N
	20	54.0	200-240	174560.00	21	P
	25	68.0	200-240	174569.00	38	T
	30	80.0	200-240	174571.00	44	T
400-480 Volts	40	104.0	200-240	174576.00	130	AE
	60	154.0	200-240	174578.00	185	AF
	1	2.0	400-480	174920.00	6	B
	2	3.4	400-480	174921.00	7	D
	3	4.8	400-480	174922.00	9	E
	5	7.6	400-480	174923.00	9	E
	7 1/2	11.0	400-480	174924.00	11	I
	10	14.0	400-480	174552.00	13	M
	15	21.0	400-480	174558.00	15	L
	20	27.0	400-480	174561.00	17	N
	25	34.0	400-480	174563.00	21	P
	30	40.0	400-480	174565.00	21	P
480-590 Volts	40	52.0	400-480	174567.00	35	T
	50	65.0	400-480	174593.00	44	W
	60	77.0	400-480	174572.00	67	W
	75	96.0	400-480	174580.00	185	AG
	100	124.0	400-480	174582.00	250	AH
	125	156.0	400-480	174584.00	260	AH
	150	180.0	400-480	174586.00	360	AL
	1	1.6	480-590	174925.00	6	B
	2	2.7	480-590	174926.00	7	D
	3	3.9	480-590	174927.00	9	E
	5	6.1	480-590	174928.00	9	F
	7 1/2	9.0	480-590	174929.00	11	I
10	11.0	480-590	174553.00	13	R	
15	17.0	480-590	174559.00	17	N	
20	22.0	480-590	174562.00	19	O	
25	27.0	480-590	174564.00	21	P	
30	32.0	480-590	174598.00	22	S	
40	41.0	480-590	174599.00	38	T	
50	52.0	480-590	174594.00	45	W	
60	62.0	480-590	174573.00	51	W	

☆ User programmable for 50Hz and other voltage inputs

### NEMA 1 (IP31) • SINGLE PHASE INPUT 230V THREE PHASE OUTPUT

(Use with three phase 230V motor)

	HP	Output Amps 230 VAC	Input Voltage	Catalog Number	App. Wgt. (lbs.)	Dimension Key
	1/4	1.4	115/230	174930.00	5	A
	1/2	2.2	115/230	174997.00	7	AC
	1	4.0	115/230	174931.00	7	D
	1 1/2	5.2	115/230	174932.00	7	D
	2	6.8	200-230	174933.00	9	E
	3	9.6	200-230	174934.00	9	E

FOR INFORMATION ON REMOTE KEYPAD OPTION, SEE PAGE 200.