



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 112), or as a Modification (see page 136).
- Remote keypad is available as a kit for installation in the field (see page 112), or as a Modification (see page 136).

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

PDF file of Manual available at
www.leeson.com



Dimension Table see page 113



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 micro-processor 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.

NEMA 1 (IP31) • THREE PHASE INPUT/OUTPUT

	HP	Output Amps	Input Voltage ⚡	Catalog Number	App. Wgt. (lbs.)	Disc. Sym.	Dimension Key
200-240 Volts	1/2	2.2	200-240	174914	6	A	B
	1	4.0	200-240	174915	6	A	C
	1 1/2	5.2	200-240	174916	6	A	C
	2	6.8	200-240	174917	9	A	E
	3	9.6	200-240	174918	9	A	E
	5	15.2	200-240	174919	11	A	F
	7 1/2	25.0	200-240	174545	13	A	M
	10	28.0	200-240	174551	15	A	L
	15	42.0	200-240	174557	19	A	N
	20	54.0	200-240	174560	21	A	P
	25	68.0	200-240	174569	38	A	T
	30	80.0	200-240	174571	44	A	T
	40	104.0	200-240	174576	130	A	AE
	60	154.0	200-240	174578	185	A	AF
	400-480 Volts	1	2.0	400-480	174920	6	A
2		3.4	400-480	174921	7	A	D
3		4.8	400-480	174922	9	A	E
5		7.6	400-480	174923	9	A	E
7 1/2		11.0	400-480	174924	11	A	I
10		14.0	400-480	174552	13	A	M
15		21.0	400-480	174558	15	A	L
20		27.0	400-480	174561	17	A	N
25		34.0	400-480	174563	21	A	P
30		40.0	400-480	174565	21	A	P
40		52.0	400-480	174567	35	A	T
50		65.0	400-480	174593	44	A	W
60		77.0	400-480	174572	67	A	W
75		96.0	400-480	174580	185	A	AG
100		124.0	400-480	174582	250	A	AH
125	156.0	400-480	174584	260	A	AH	
150	180.0	400-480	174586	360	A	AL	
480-590 Volts	1	1.6	480-590	174925	6	A	B
	2	2.7	480-590	174926	7	A	D
	3	3.9	480-590	174927	9	A	E
	5	6.1	480-590	174928	9	A	F
	7 1/2	9.0	480-590	174929	11	A	I
	10	11.0	480-590	174553	13	A	R
	15	17.0	480-590	174559	17	A	N
	20	22.0	480-590	174562	19	A	O
	25	27.0	480-590	174564	21	A	P
	30	32.0	480-590	174598	22	A	S
	40	41.0	480-590	174599	38	A	T
	50	52.0	480-590	174594	45	A	W
60	62.0	480-590	174573	51	A	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.)	Disc. Sym.	Dimension Key
	1/4	1.4	115/230	174930	5	A	A
	1/2	2.2	115/230	174997	7	A	AC
	1	4.0	115/230	174931	7	A	D
	1 1/2	5.2	115/230	174932	7	A	D
	2	6.8	200-230	174933	9	A	E
	3	9.6	200-230	174934	9	A	E

FOR INFORMATION ON REMOTE KEYPAD OPTION,
SEE PAGE 112.