

AC ADJUSTABLE SPEED DRIVES **LEESON**

SM SERIES SUB-MICRO INVERTER DRIVES

For applications requiring a simpler drive without the advanced features of the SM-Plus drive. Provides 11 isolated I/O terminals with one Form A relay output. Other features include:

- Removable electronic programming module allows off-line set-up and program replication.
- Input line voltage calibration—optimizes over and under voltage trip levels
- Current limit to 180% with frequency foldback
- Adjustable carrier frequency (4 to 10 kHz)
- Adjustable V/Hz
- Output frequency to 240 Hz
- Seven preset speeds
- Automatic restart after fault
- Control via drive face, terminal strip or optional remote keypad
- Coast or ramp to stop
- Independent Accel and Decel adjustment
- Forward only or forward and reverse direction
- Adjustable DC injection braking
- Speed reference: Keypad, 0-10 VDC, or 4-20 mA
- Speed reference calibration
- I²t motor thermal overload protection; meets UL requirements for motor protection in single motor applications
- Fixed boost for high starting torque
- Accel boost for high torque accelerating at any speed
- Slip compensation
- Three-digit LED display
- Password protection
- Fault history: Stores eight previous trips
- Terminal status indication
- Default parameter reset
- IP20 enclosure with finger safe terminals
- Dynamic braking and remote keypad kits available on pages 207 and 208.

☆ User programmable for 50Hz and other voltage inputs



SM SERIES



SM SERIES SUB-MICRO INVERTERS

SINGLE PHASE INPUT/THREE PHASE OUTPUT

(Use with three phase 230V motor)

	HP	Output Amps 230 VAC	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Dimension Key
110-120 Volts	1/3	1.7	110-120	174263.00	2	A5
	1/2	2.4	110-120	174264.00	2	A5
	1	4.2	110-120	174265.00	3	B5
	1 1/2	6.0	110-120	174266.00	3	B5

SINGLE PHASE INPUT/THREE PHASE OUTPUT

(Use with three phase 230V motor)

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Dimension Key
200-240 Volts	1/3	1.7	200-240	174267.00	2	A5
	1/2	2.4	200-240	174268.00	2	A5
	1	4.2	200-240	174270.00	3	A6
	1 1/2	6.0	200-240	174271.00	4	B5
	2	7.0	200-240	174272.00	5	B5
	3	9.6	200-240	174273.00	5	B6

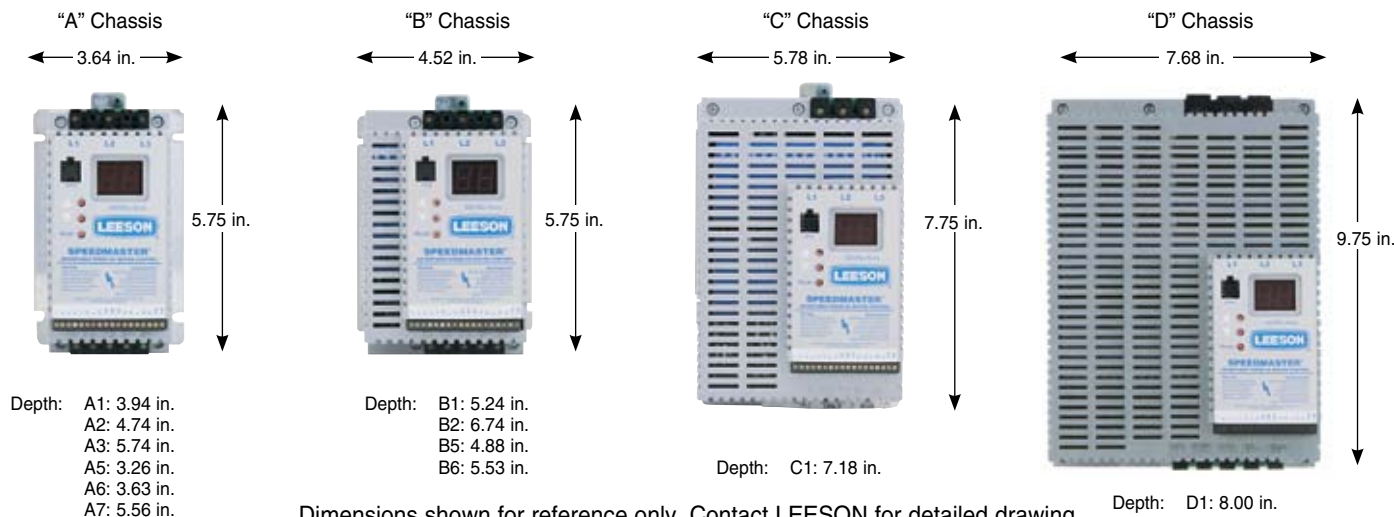
THREE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Dimension Key
200-240 Volts	1/2	2.4	200-240	174274.00	2	A5
	1	4.2	200-240	174276.00	2	A6
	1 1/2	6.0	200-240	174277.00	3	A7
	2	7.0	200-240	174278.00	3	A7
	3	9.6	200-240	174279.00	3	B6
	5	15.2	200-240	174288.00	5	B2
	7 1/2	22	200-240	174280.00	8	C1
	10	28	200-240	174290.00	8	C1
	15	42	200-240	174292.00	14	D1

THREE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Dimension Key
400-480 Volts	1/2	1.1	400-480	174281.00	2	A1
	1	2.1	400-480	174282.00	3	A2
	1 1/2	3.0	400-480	174283.00	3	A3
	2	3.4	400-480	174284.00	4	A3
	3	4.8	400-480	174286.00	4	B1
	5	7.8	400-480	174287.00	5	B2
	7 1/2	11	400-480	174285.00	5	B2
	10	14	400-480	174291.00	8	C1
	15	21	400-480	174293.00	8	C1

DIMENSIONS: SM, SM PLUS AND SM VECTOR INVERTERS



Dimensions shown for reference only. Contact LEESON for detailed drawing.

PDF file of Manual available at www.leeson.com/Technical Information

Specifications are subject to change without notice

DRIVES