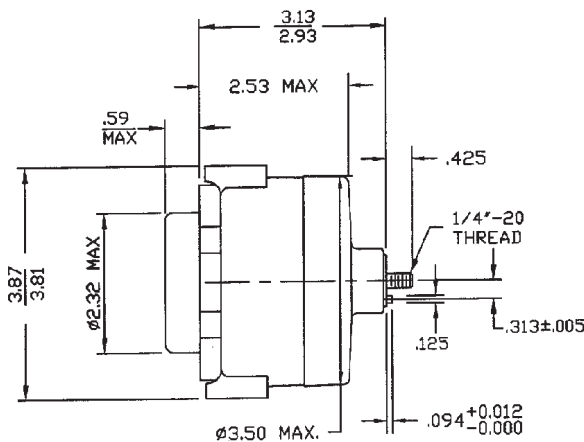
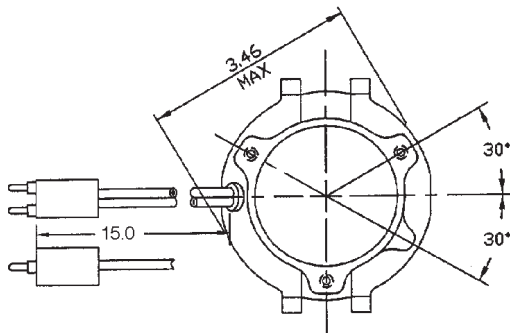




Motors & Armatures, Inc. proudly introduces the Electric Motors & Specialties, Inc. new ECM for refrigerated case evaporator applications, the Unitronix. The Unitronix is an electronically commutated motor that brings outstanding energy savings to the refrigeration market in the form of a direct drop-in replacement for practically all unit bearing motors. No additional labor or sheet metal work is required to replace an existing shaded pole unit bearing motor with a Unitronix.

Heat in a refrigerated space has always been a necessary evil in the food marketing industry. Lights, motors and defrost heating elements are the culprits. But, heat shortens food storage life and adds to the load placed on the refrigeration system. The new Unitronix dramatically reduces (by as much as 3/4!) the waste heat generated by refrigerated case evaporator motors.

The Unitronix is the latest in a long line of innovations by EM&S, a 35 year leader in developing energy saving motor designs for the commercial refrigeration industry. EM&S motors are manufactured in the U.S.



**features:**

- High capacity oil reservoir spiral grooved shaft for efficient distribution of oil to the bearing surface
- Electronic control board programmable to customer selected speeds - **special order**
- Mounting hardware included
- Water shield included
- Standard rear mounting holes drilled and tapped

**specifications:**

- 1550 RPM Standard
- cast iron
- unit bearing
- EMF P-2-1A Lyall Power Plug
- 15" leads
- UL file no. E128044

MARS NO.	EM&S Model	OUTPUT WATTS	VOLTS	NOMINAL AMPS	ROT OSE	RPM
00601	UTB1CB1551EB	6-12	115	.1-7	CW	1550

# Save Millions



**Generates Less Waste Heat Inside of Refrigerated Space  
Requires Less Electricity to Operate**

**Saves Energy Two Ways!**

Motor Output	Shaded Pole		Unitronix		Annual KWH Saved	Annual Waste Heat Difference
	Watts In	Waste Heat	Watts In	Waste Heat		
6 Watts	41.4	120.7 BTU	13.2	24.6 BTU	247.0	<b>841,836 BTU</b>
<b>9 Watts *</b>	<b>51.8</b>	<b>145.9 BTU</b>	<b>17.7</b>	<b>29.7 BTU</b>	<b>298.7</b>	<b>1,017,912 BTU</b>
12 Watts	55.6	148.6 BTU	19.0	23.8 BTU	320.6	<b>1,093,248 BTU</b>

1 watt hour = 3.41 BTU

One BTU is the amount of heat energy required to raise the temperature of one pound of water one degree fahrenheit.

\* Most Typical Application

## 9 Watt Application

Shaded Pole	
115V 0.5 Amps .90 PF	
Watts In =	$115 \times 0.5 \times .90 = 51.8$
Efficiency =	$9/51.8 = 17.4\%$
Waste Heat =	$(51.8-9) \times 3.41F = 145.9 \text{ BTUH}$

Unitronix	
115V .28 Amps .55 PF	
Watts In =	$115 \times .28 \times .55 = 17.7$
Efficiency =	$9/17.7 = 50.8\%$
Waste Heat =	$(17.7-9) \times 3.41F = 29.7 \text{ BTUH}$

At \$0.08/KWH, the Unitronix, MARS #00601, will cost \$23.90 **LESS** to run annually than a standard 9 watt shaded pole motor and run much cooler.

A refrigeration system utilizing the new Unitronix instead of a standard shaded pole motor will have to reject over 1,000,000 BTU's less over a one year time frame. In a typical 12 foot refrigerated case, using 4 evaporator motors, the reduction in motor generated waste heat can be more than 4 million BTU's annually!



Toll Free (800) 445-4155 • Fax (631) 348-7160 • website: [www.mar-sm-a.com](http://www.mar-sm-a.com)