



INDUSTRIAL ELECTRIC MOTORS LEBO
THE BEST PRODUCTS & SERVICE
SINCE 1972



ACSmith.



ELECTRIC MOTORS,
GENERAL PURPOSE, T-FRAMES, PUMPS, COMPRESSORS
AND MANY MORE APPLICATIONS

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24 HOUR SERVICE



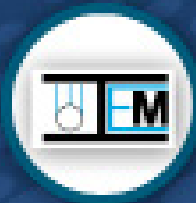
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HVAC
THE MOST COMPLETE LINE
OF HVAC R MOTORS

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Browning
& **SEALMASTER**



Gates



**ADJUSTABLE & FIXED PULLEYS
SINGLE AND DOUBLE GROOVE
COMPLETE LINE OF PILLOW BLOCKS**

DECIMAL	1.25	1.31	1.38	1.44	1.63	2.19	2.25	2.44	2.69	2.94
CONVERSION	1 1/4	1 5/16	1 3/8	1 7/16	1 5/8	2 1/16	2 1/4	2 3/16	2 11/16	2 15/16
DECIMAL	0.25	0.31	0.38	0.50	0.63	0.69	0.75	0.88	1.125	1.19
CONVERSION	1/4	5/16	3/8	1/2	5/8	11/16	3/4	7/8	1 1/8	1 3/16

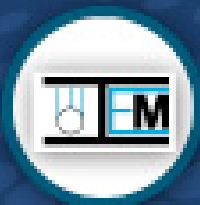
**QUALITY BELTS
ALWAYS IN STOCK**

PULLEY A
DIAMETER X
1.57



PULLEY B
DIAMETER X
1.57

FORMULA FOR BELTS LENGTH
PULLEY A DIAMETER X 1.57
+ PULLEY B DIAMETER X 1.57
+ DISTANCE BETWEEN THE SHAFT X2
= OUTSIDE LENGTH OF BELT



Law
PARTS DIVISION

CANARM

VORTEX
POWERFANS
Ventilateurs haute performance



THE LARGEST VARIETY OF FANS IN STOCK
2 BLADE TO 5 BLADE - 5" TO 42" DIAMETER
COMPLETE BLOWER SINGLE AND
DOUBLE WHEELS IN STOCK 3" - 18"

EXHAUST FANS

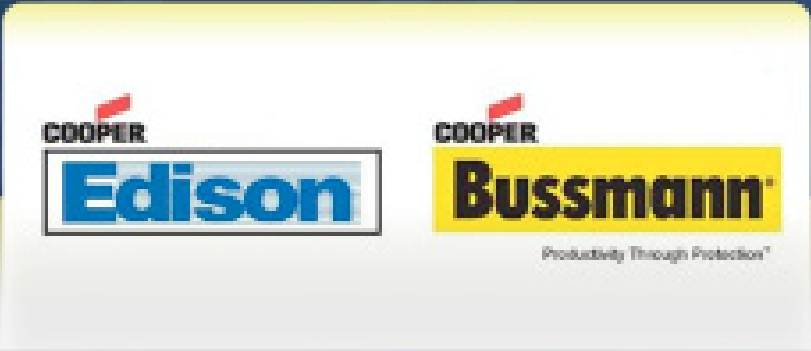
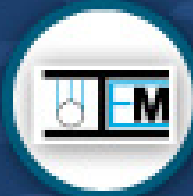
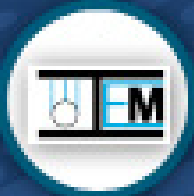
4" TO 12" INLINE
BLOWERS

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MOTOR STARTERS & CONTACTORS
1/2 TO 50HP

FUSES FROM 1/4 AMP TO 200 AMPS
IN STOCK

HORSEPOWER CONVERSION CHART
745.7 WATTS EQUALS 1HP

HP DECIMAL																	
0.010	0.014	0.017	0.020	0.025	0.033	0.040	0.050	0.067	0.083	0.100	0.125	0.167	0.250	0.333	0.500	0.750	1.000
FRACTIONAL HP																	
1/100	1/70	1/60	1/50	1/40	1/30	1/25	1/20	1/15	1/12	1/10	1/8	1/6	1/4	1/3	1/2	3/4	1

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GRÄSSLIN



DRAFT INDUCERS
POWER VENTORS

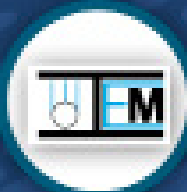
STANDARD , DIGITAL & REFRIGERATION
TIMERS 40 AMPS

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LittleGIANT.



AUTHORIZED DISTRIBUTOR
COMPLETE PUMPS & PARTS

AUTHORIZED STOCKING DISTRIBUTOR,
SUMPS, CONDENSATES, MAGNET DRIVE
& SUBMERSIBLE PUMPS

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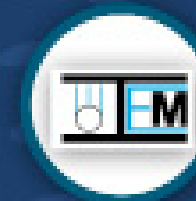
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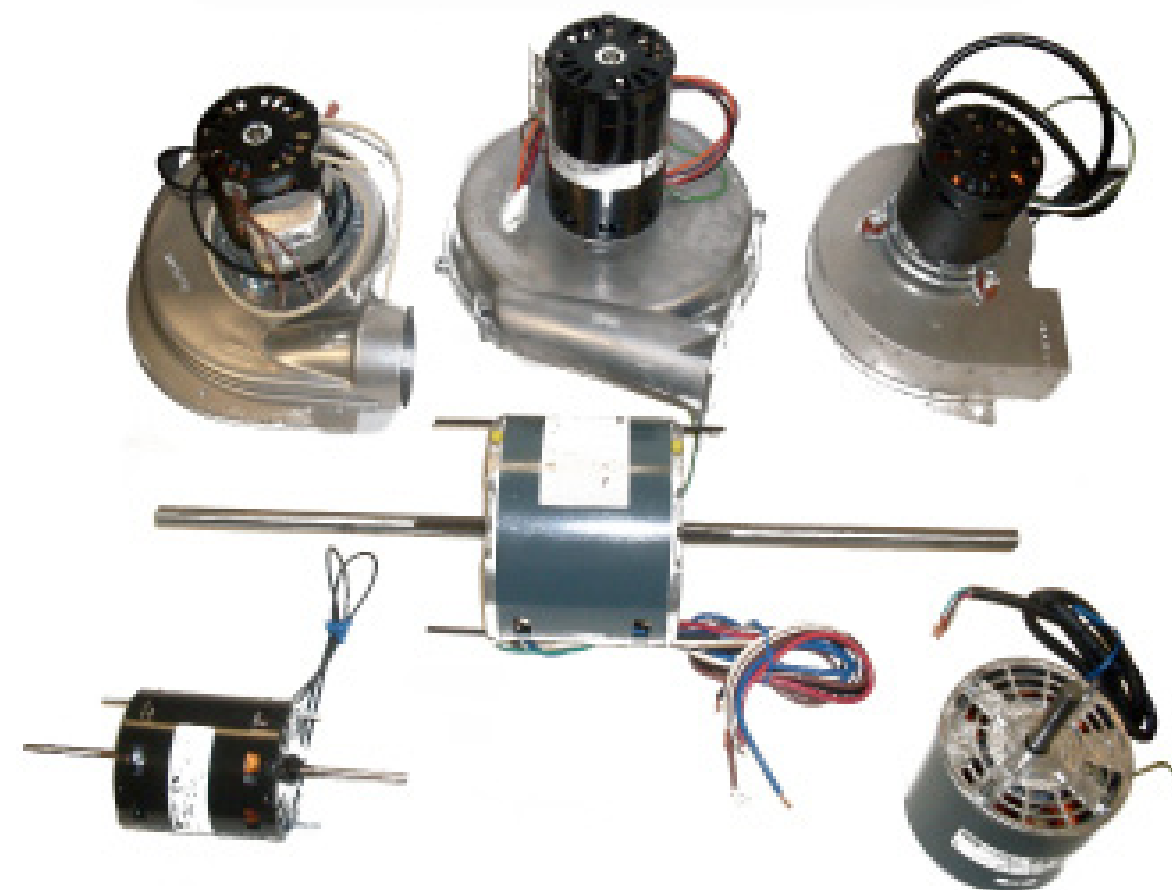
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FASCO



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COMPLETE LINE OF HVAC
MOTORS AND BLOWERS

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ELCO



REFRIGERATION AND
VENTILATION MOTORS

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24 HOUR SERVICE



EMERSON



EXHAUST FANS, CONDENSORS, EVAPORATORS, BLOWERS, UNIT
HEATERS & MANY MORE APPLICATIONS...

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24 HOUR SERVICE

OEM
DIRECT
REPLACEMENTS



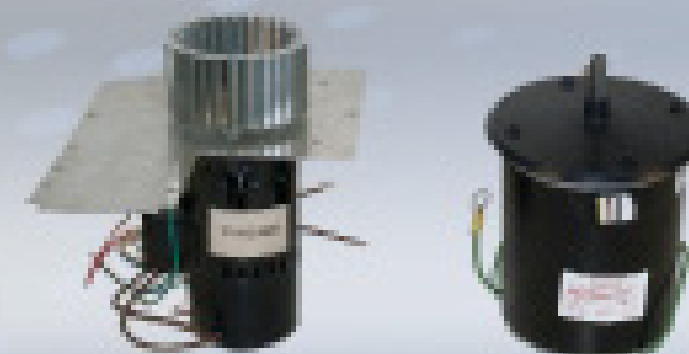
CARRIER

TRANE



KEEPRITE

YORK



LENNOX

BLANCHARD



RHEEM

PENN



AUTHORIZED DISTRIBUTORS

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MAGNETEK

Gates

Dayton

VORTEX
POWERFANS
Ventilateurs haute performance

FASCO

COOPER EDISON
COOPER BUSSMAN

GRASSLIN

Little **GIANT**

ELCO



EMERSON

FORMULAS

Formulas - Electrical

$$\text{VOLTS} = \frac{\text{Watts}}{\text{Amps}} \quad \sqrt{\frac{\text{Watts} \times \text{Ohms}}{\text{Amps}}}$$

$$\text{AMPS} = \frac{\text{Volts}}{\text{Ohms}} \quad \frac{\text{Watts}}{\text{Volts}} \quad \sqrt{\frac{\text{Watts}}{\text{Ohms}}}$$

$$\text{WATTS} = \text{Volts} \times \text{Amps} \quad \text{Amps}^2 \times \text{Ohms} \quad \frac{\text{Volts}^2}{\text{Ohms}}$$

$$\text{OHMS} = \frac{\text{Volts}}{\text{Amps}} \quad \frac{\text{Volts}^2}{\text{Watts}} \quad \frac{\text{Watts}}{\text{Amps}^2}$$

$$\text{Power Factor} = \frac{\text{KW}}{\text{KVA}} = \cos \theta$$

Single Phase	Three Phase
$\text{KW} = \frac{\sqrt{3} \times \text{A} \times \text{PF}}{1000}$	$\frac{\sqrt{3} \times \text{V} \times \text{A} \times \text{PF}}{1000}$

$\text{KVA} = \frac{\text{V} \times \text{A}}{1000}$	$\frac{\sqrt{3} \times \text{V} \times \text{A}}{1000}$
------------------------------------------------------	---------------------------------------------------------

$\text{AMPS} = \frac{\text{KVA} \times 1000}{\text{V}}$	$\frac{\text{KVA} \times 1000}{\sqrt{3} \times \text{V}}$
---------------------------------------------------------	-----------------------------------------------------------

$$\sqrt{3} = 1.73$$

Approx. Motor KVA = Motor Horsepower (At Full Load)

Capacitors Connected in Parallel $C_1 + C_2 + C_3 = C$ Total

Capacitors Connected in Series:

For Two	More Than Two
$\frac{C_1 \times C_2}{C_1 + C_2} = C$ Total	$\frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}} = C$ Total

VOLTAGE UNBALANCE

% Voltage Unbalance =

$$\frac{100 \times \text{Max. Voltage Deviation From Average Voltage}}{\text{Average Voltage}}$$

BOOST TRANS.:

Rating Plate F.L.A. x Rating Plate VOLTS = KVA

$$\frac{\text{Rating Plate VOLTS}}{\text{Rating Plate VOLTS} - \text{Norm. Line VOLTS}} = \text{FACTOR}$$

$$\frac{\text{KVA}}{\text{FACTOR}} = \text{Trans. KVA Rating}$$

$$\left(\frac{V_1}{V_2}\right)^2 \times \text{Heater Rating} = \text{Rating @ New Voltage}$$

V_1 Rated Volts V_2 Measured Volts

Typical Ampere Wire Ratings*

AWG MCM	COPPER CONDUCTORS, IN CONDUIT*		
	TEMP. RATING OF CONDUCTOR*		
	60°C*	75°C*	90°C*
14	15	15	25*
12	20	20	30*
10	30	30	40*
8	40	45	50
6	55	65	70
4	70	85	90
3	80	100	105
2	95	115	120
1	110	130	140
1/0	125	150	155
2/0	145	175	185
3/0	165	200	210
4/0	195	230	235
250	215	255	270
300	240	285	300
350	260	310	325
400	280	335	360
500	320	380	405
600	355	420	455
700	385	460	490
750	400	475	500
800	410	490	515
900	435	520	555
1000	455	545	585
1250	495	590	645
1500	520	625	700
1750	545	660	735
2000	560	665	775

* Summary only, refer to NEC 310-16, -17, -18, -19 (and others) for limitations.

Typical Electric Wire Size

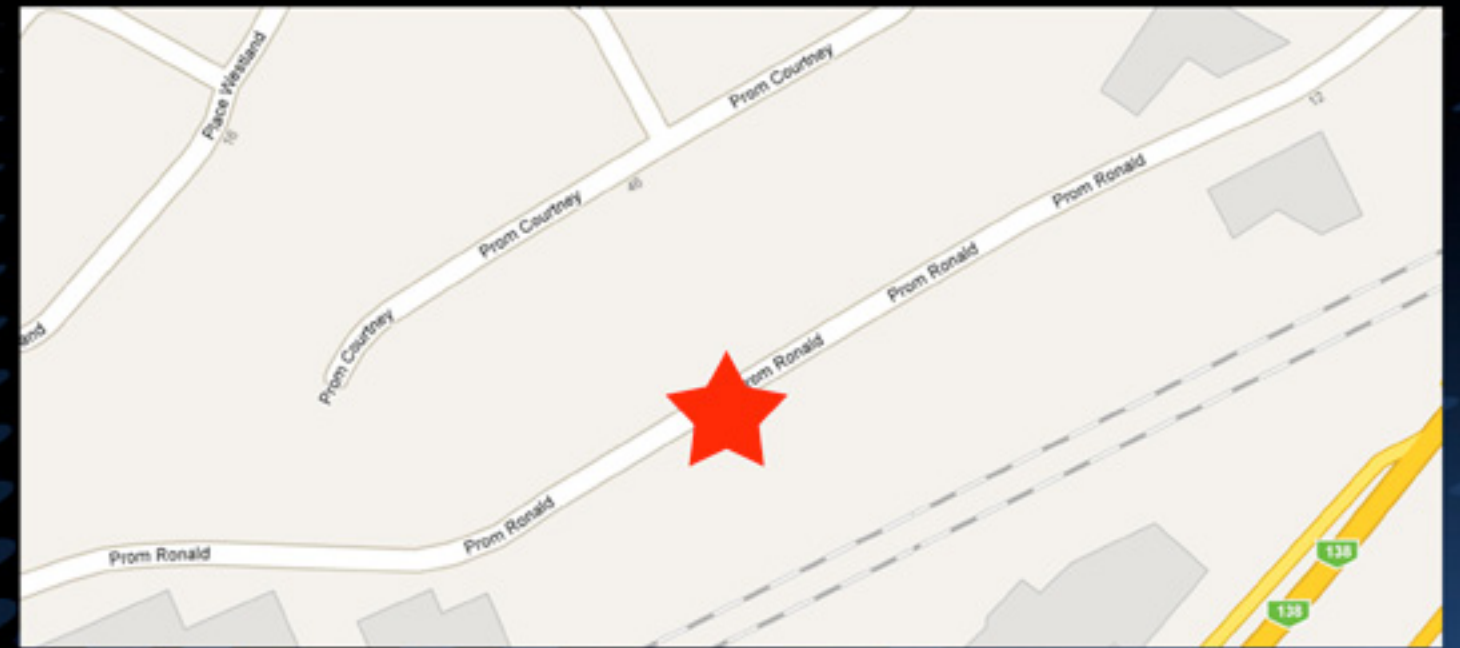
MOTOR HP	SINGLE PH.		THREE PH.	
	115 VOLT	230 VOLT	230 VOLT	460 VOLT
1-1/3	14	14		
1/2	14	14	14	14
3/4	12	14	14	14
1	12	14	14	14
1-1/2	10	14	14	14
2		12	14	14
3		10	14	14
5			12	14
7-1/2			10	14
10			8	12

From Standards of the National Board of Fire Underwriters.

**Correction Table For
Watts - Amperes - Volts**

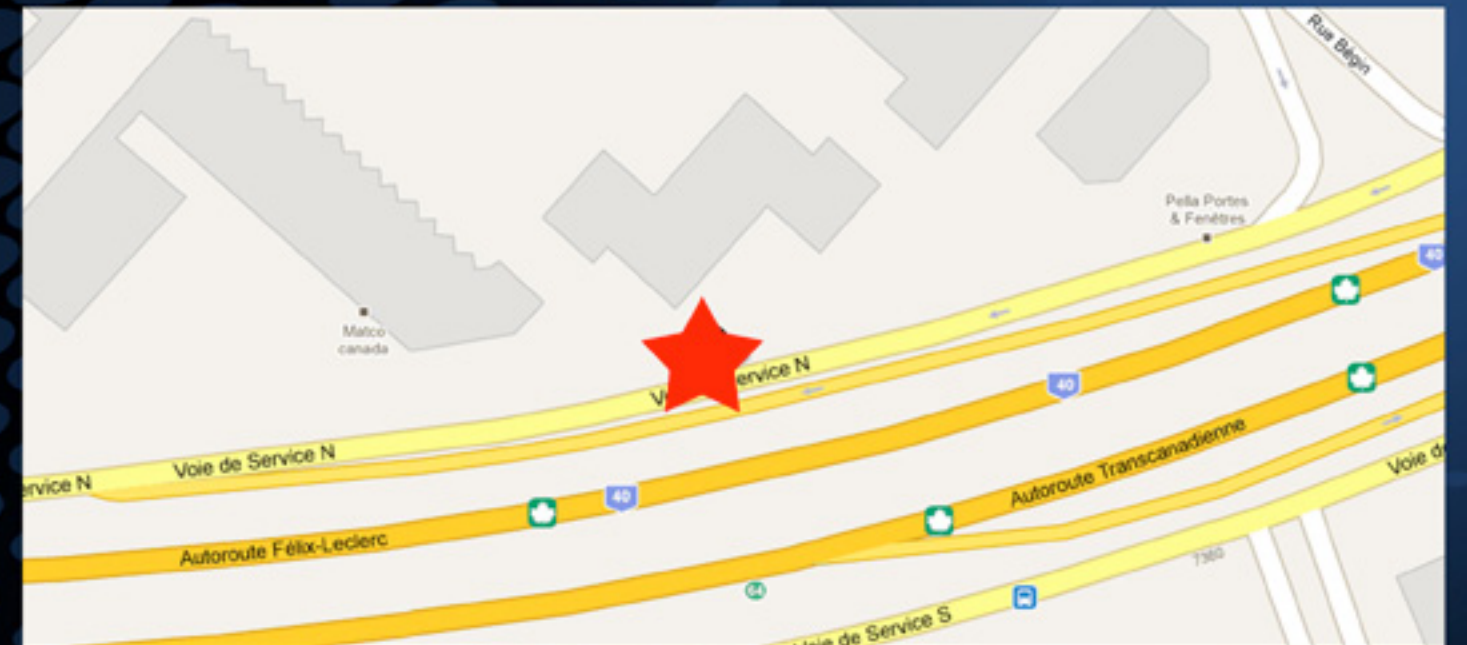
WATTS	VOLTAGE (C - Single Phase)			
	120	208	240	277
	AMPERES			
500	4.2	2.4	2.1	1.8
1000	8.3	4.8	4.2	3.6
1500	12.5	7.2	6.3	5.4
2000	16.7	9.6	8.3	7.2
2500	20.9	12.0	10.4	9.0
3000	25.0	14.4	12.5	10.8
3500	29.2	16.8	14.6	12.6

NOTES



IEM LEBO

110 RONALD DRIVE, MONTRÉAL-WEST, QC, H4X 1M8
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SNOWDON ELECTRIC

7457 TRANSCANADA, SAINT-LAURENT, QC H4T 1T3
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