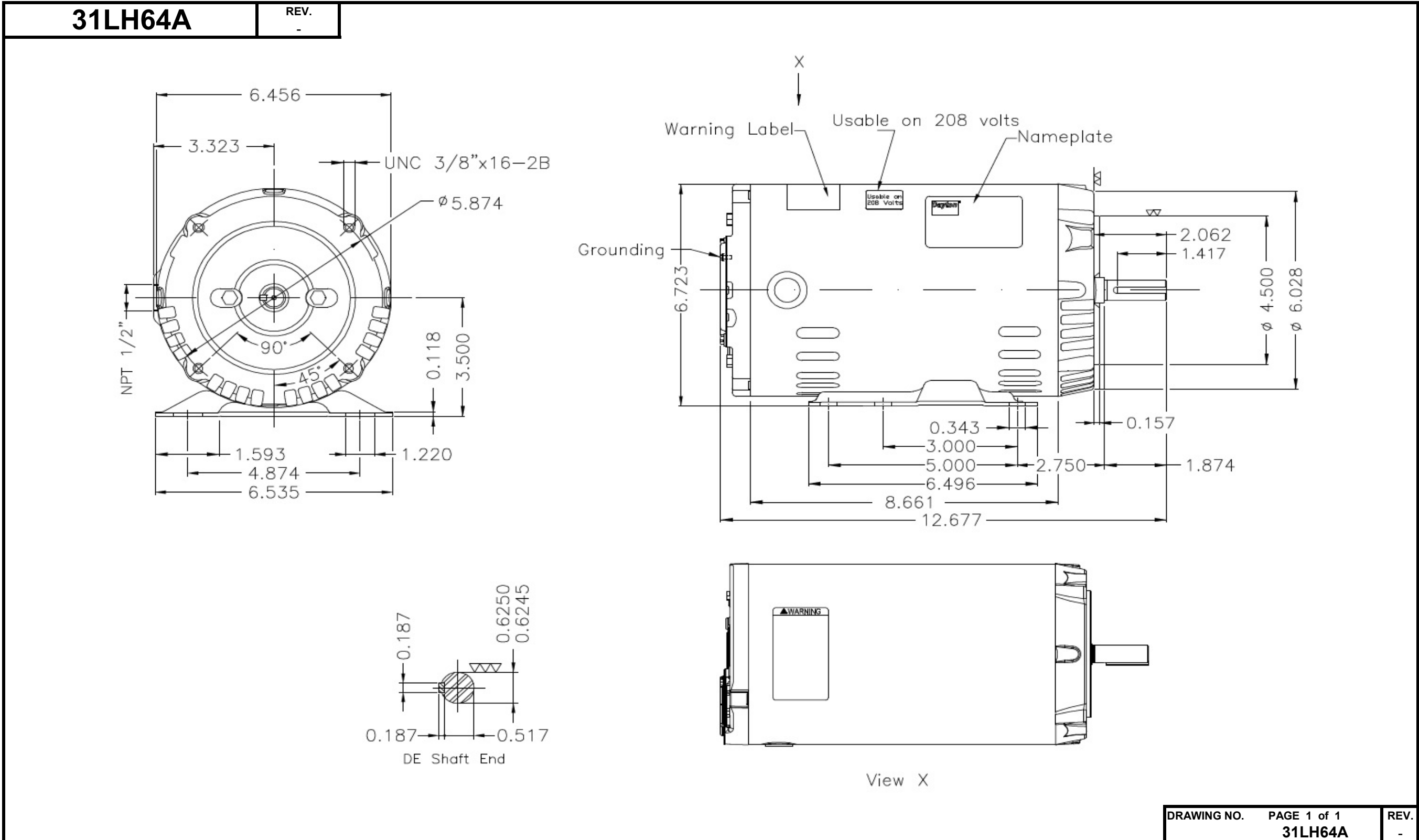


Dimensional Drawing



Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency

Frame	: 56HC	Locked rotor time	: 33 s (hot) 59 s (cold)
Output	: 0.75 HP (0.55 kW)	Temperature rise ⁴	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 2.52/1.26 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 14.9/7.43 A	Mounting	: F-1
LRC (p.u.)	: 5.9 Code J	Direct of rotation ¹	: Both
No load current	: 1.79/0.896 A	Noise level ²	: 50.0 dB(A)
Rated speed	: 1160 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight ³	: 15.6 kg
Rated torque	: 0.469 kgfm	Design	: B
Locked rotor torque	: 220 %		
Pull up torque	: 185 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0071 kgm ²		

Output	Start	50%	75%	100%	Load type: -
Efficiency (%)	-	75.5	80.0	81.7	Load torque: -
Power factor	0.62	0.45	0.58	0.67	Load inertia (J=GD ² /4): -

	Drive end	Non drive end
Bearing type	6204-ZZ	6202-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

- * Dayton # 31LH64A
- * Connection YY/Y - Document 10003174687

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Tests	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez			181294/2016-A	
Checked by	mmoctezuma			Page	Revision
Date	21/02/2018			1/2	0

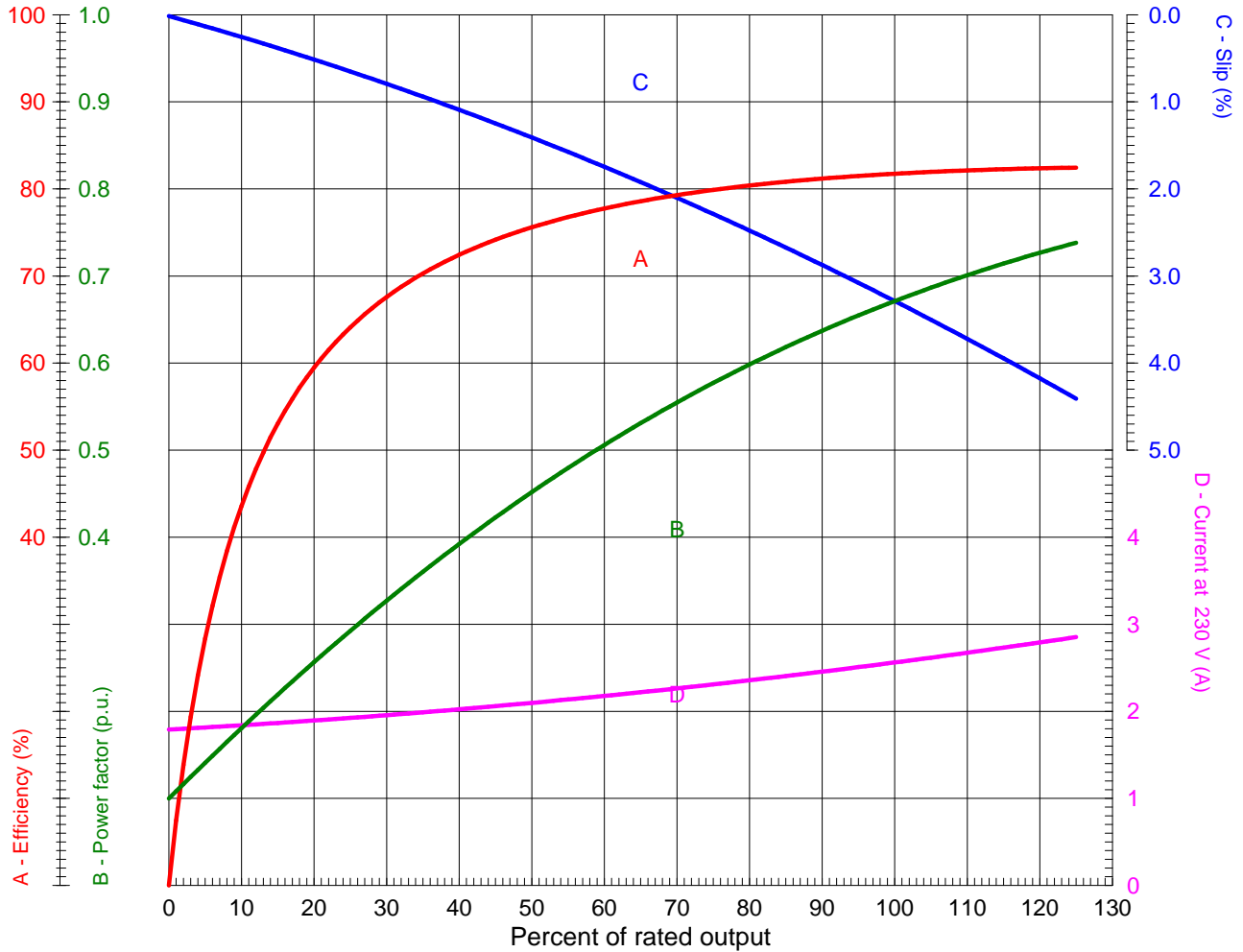
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency



Performance : 0.75 HP (0.55 kW) 230/460 V 60 Hz 6P 56HC

Rated current	: 2.52/1.26 A	Moment of inertia (J)	: 0.0071 kgm ²
LRC (p.u.)	: 5.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.469 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1160 rpm	Design	: B

Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez			181294/2016-A1	
Checked by	mmoctezuma			Page	Revision
Date	21/02/2018			1/1	0

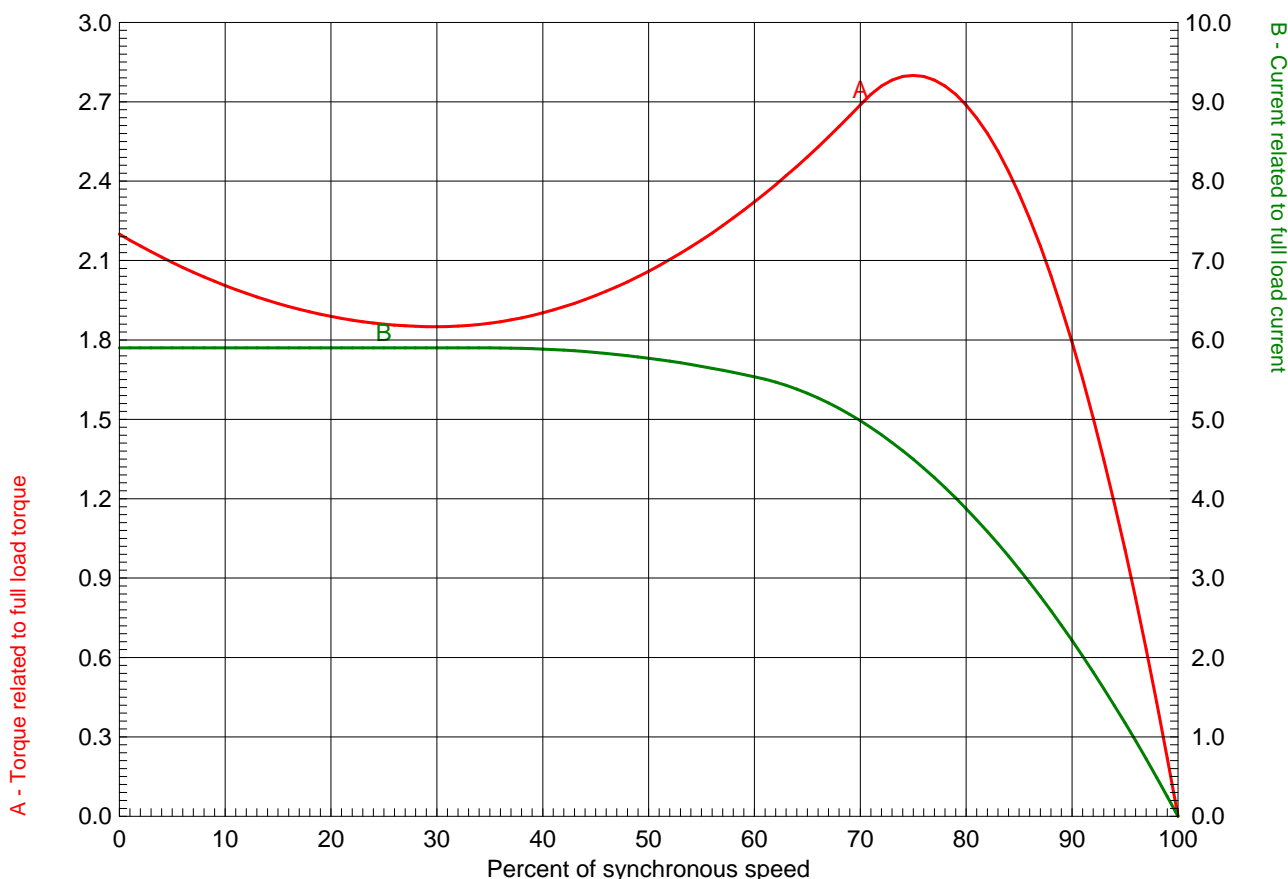
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency



Performance : 0.75 HP (0.55 kW) 230/460 V 60 Hz 6P 56HC

Rated current : 2.52/1.26 A	Moment of inertia (J) : 0.0071 kgm ²
LRC (p.u.) : 5.9 Code J	Duty cycle : Cont.(S1)
Rated torque : 0.469 kgfm	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.15
Breakdown torque : 280 %	Temperature rise : 80 K
Rated speed : 1160 rpm	Design : B

Locked rotor time 100% : 33 s (hot) 59 s (cold)
 Load inertia (J=GD²/4) : 0.0071 kgm²

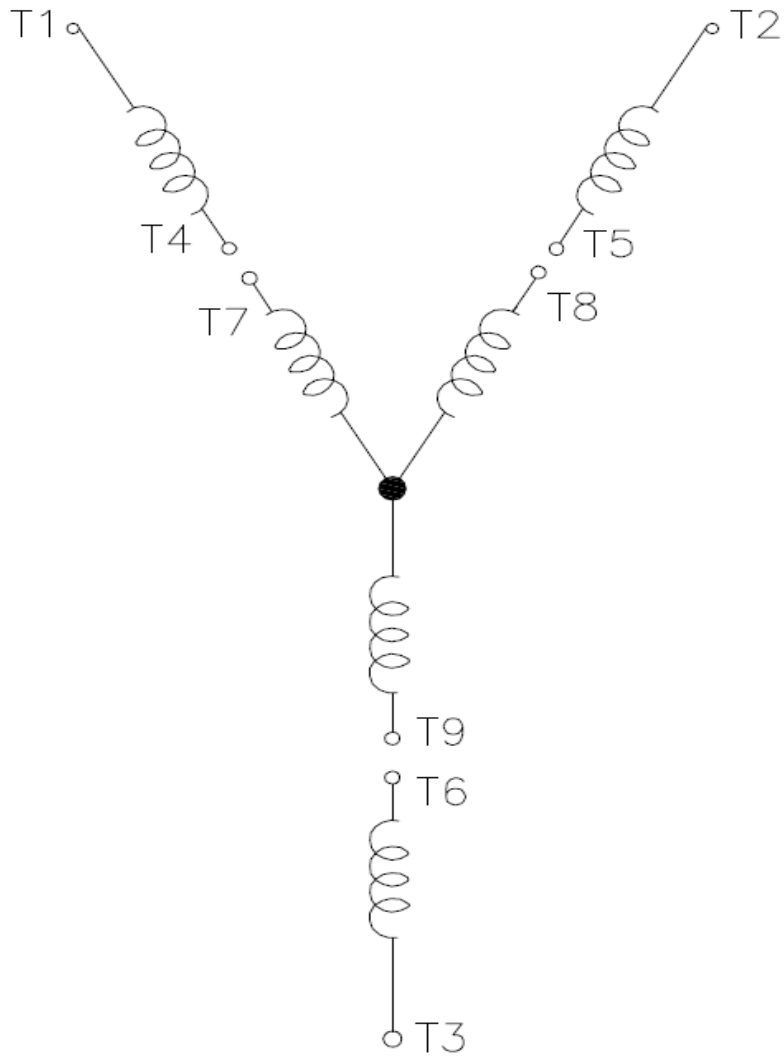
Rev.	Summary of changes	Performed	Checked	Date
Performed by	mrsanchez	181294/2016-A1		
Checked by	mmoctezuma	Page	Revision	
Date	21/02/2018	1/1	0	

Wiring Diagram

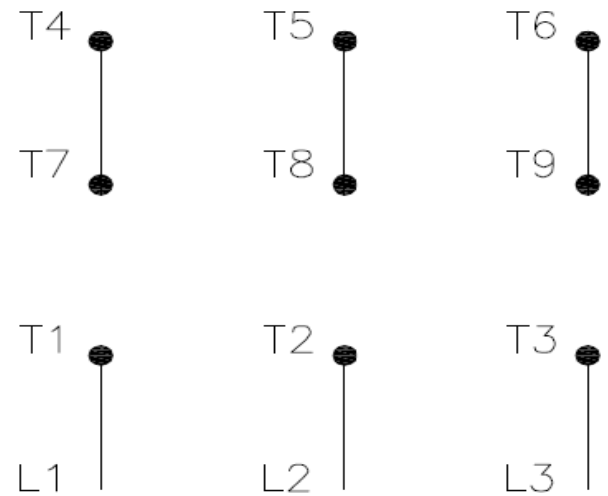


31LH64A

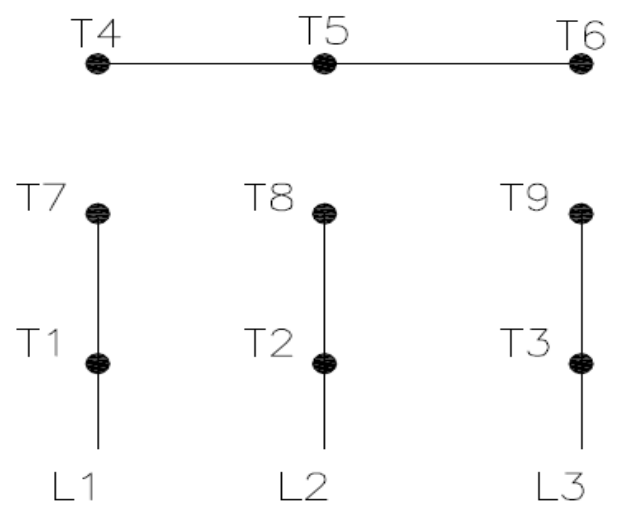
REV.
0



High Voltage (Y)



Low Voltage (YY)



- T1 — Blue
- T2 — White
- T3 — Orange
- T4 — Yellow
- T5 — Black
- T6 — Gray
- T7 — Pink
- T8 — Red
- T9 — Brick Red

Interchange any two line wires to reverse rotation.

DRAWING NO.	PAGE 1 of 1	REV.
31LH64A		0

20MAR18

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NEMA
Premium®

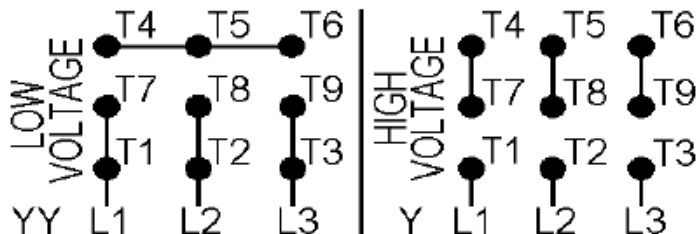
MODEL NO.

CEC® **US****CE****SA**®
C **US****31LH64A**

TO0IC0X0X0000900437

MAT: 13827735

PH 3	HP (kW) 0.75(0.55)
HZ 60	V 230/460
RPM 1160	A 2.52/1.26
FR 56HC	DES B
IP 21	ENCL ODP
AMB 40 °C	CODE J
SF 1.15	INS F ΔT 80 K
SFA 2.9/1.4 A	PF 0.67
DUTY CONT	
AVG F.L. EFF.	81.7%



T1-BLU T2-WHT T3-ORG T4-YEL T5-BLK
T6-GRY T7-PNK T8-RED T9-BRK RED

INTERCHANGE ANY TWO LINE WIRES TO REVERSE ROTATION

ALT. RATING: 190-220/380-415V 50Hz
0.75HP 2.86-2.62/1.43-1.39 A 945 RPM S.F.1.15

S/N:

Mfd. for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA