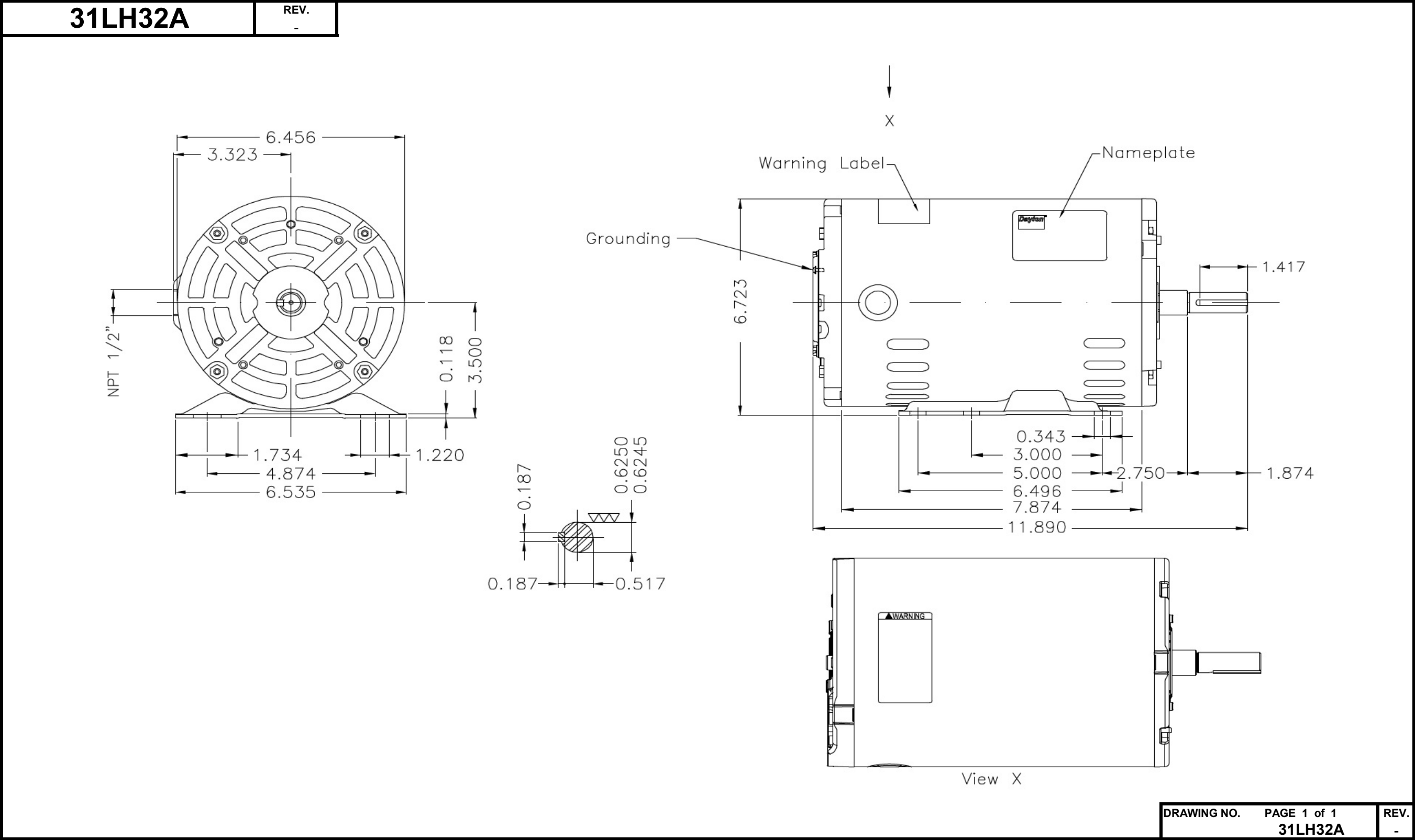


Dimensional Drawing



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DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency

Frame	: 56H	Locked rotor time	: 20 s (hot) 36 s (cold)
Output	: 1.5 HP (1.1 kW)	Temperature rise ⁴	: 80 K
Poles	: 2	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	: 3.70/1.85 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 31.8/15.9 A	Mounting	: F-1
LRC (p.u.)	: 8.6 Code K	Direct of rotation ¹	: Both
No load current	: 1.62/0.809 A	Noise level ²	: 62.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 11.8 kg
Rated torque	: 3.04 Nm	Design	: B
Locked rotor torque	: 210 %		
Pull up torque	: 175 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0035 kgm ²		

Output	Start	50%	75%	100%	Load type: -
Efficiency (%)	-	81.5	84.0	84.0	Load torque: -
Power factor	0.65	0.73	0.83	0.89	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 # 31LH32A
 * 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				181318/2016-A
Checked by	marian				Page Revision
Date	21/12/2017				1/2 1

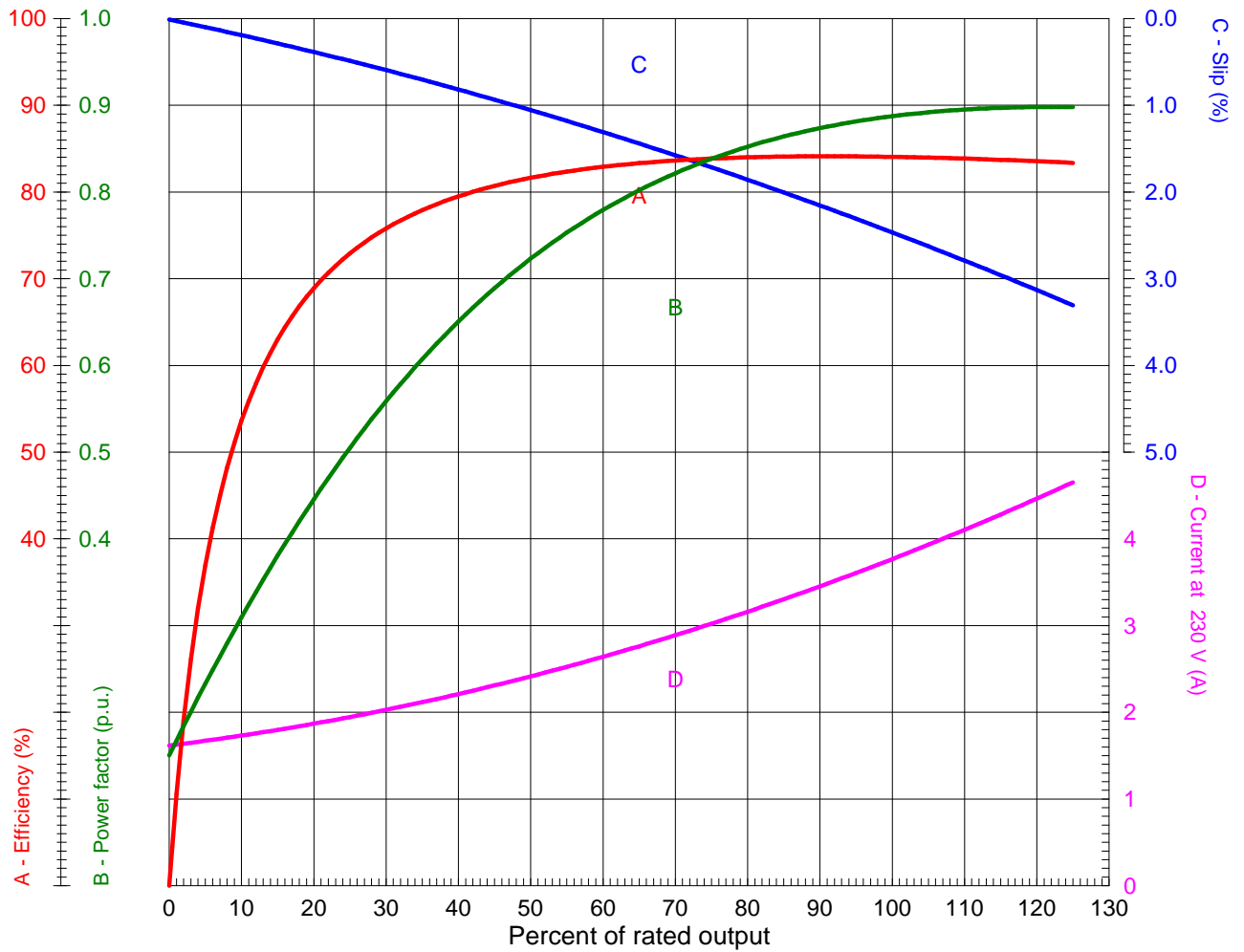
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency



Performance : 1.5 HP (1.1 kW) 230/460 V 60 Hz 2P 56H

Rated current	: 3.70/1.85 A	Moment of inertia (J)	: 0.0035 kgm ²
LRC (p.u.)	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 3.04 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez			181318/2016-A1	
Checked by	marian			Page	Revision
Date	21/12/2017			1/1	1

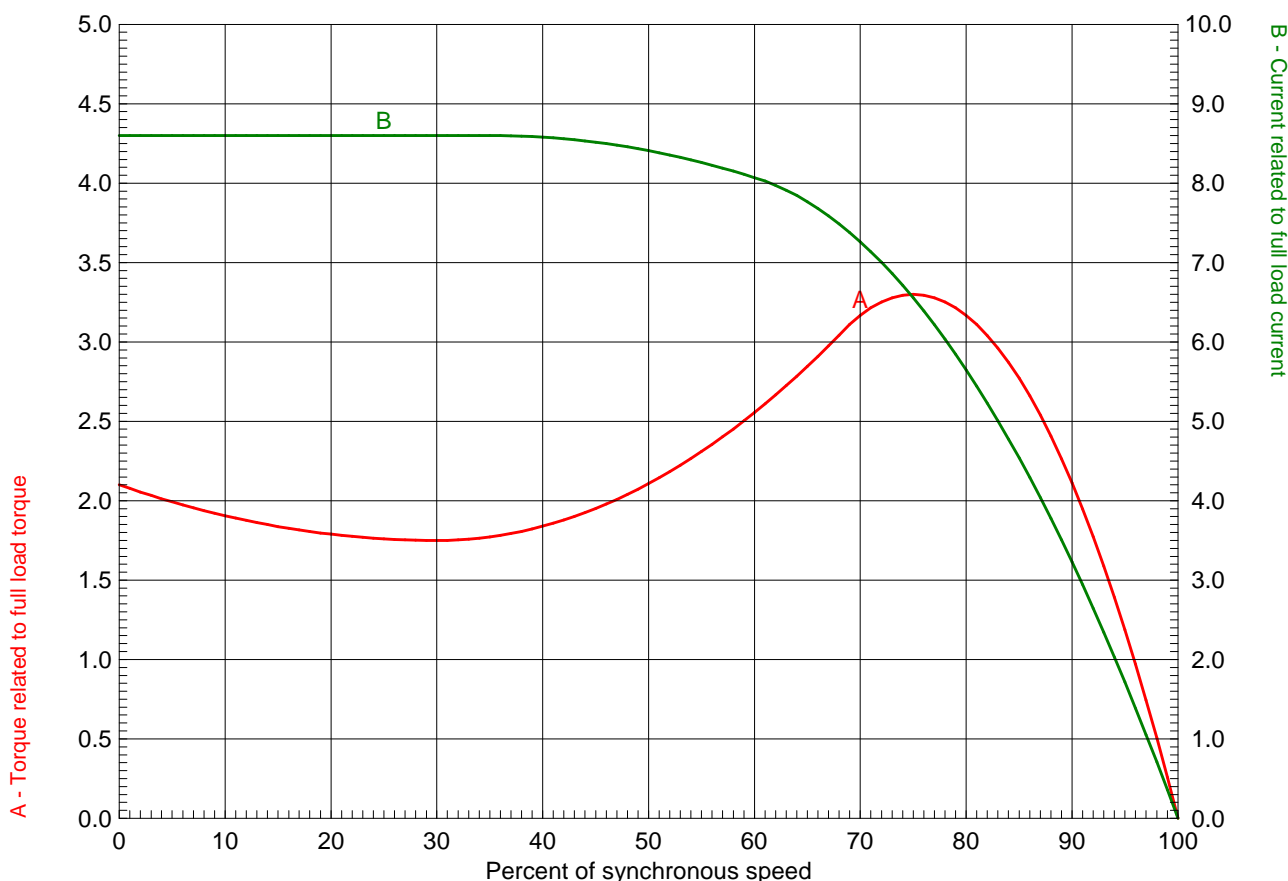
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer

Product line : W01 - ODP - Premium Efficiency



Performance : 1.5 HP (1.1 kW) 230/460 V 60 Hz 2P 56H

Rated current	: 3.70/1.85 A	Moment of inertia (J)	: 0.0035 kgm ²
LRC (p.u.)	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 3.04 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time 100% : 20 s (hot) 36 s (cold)
 Load inertia (J=GD²/4) : 0.0035 kgm²

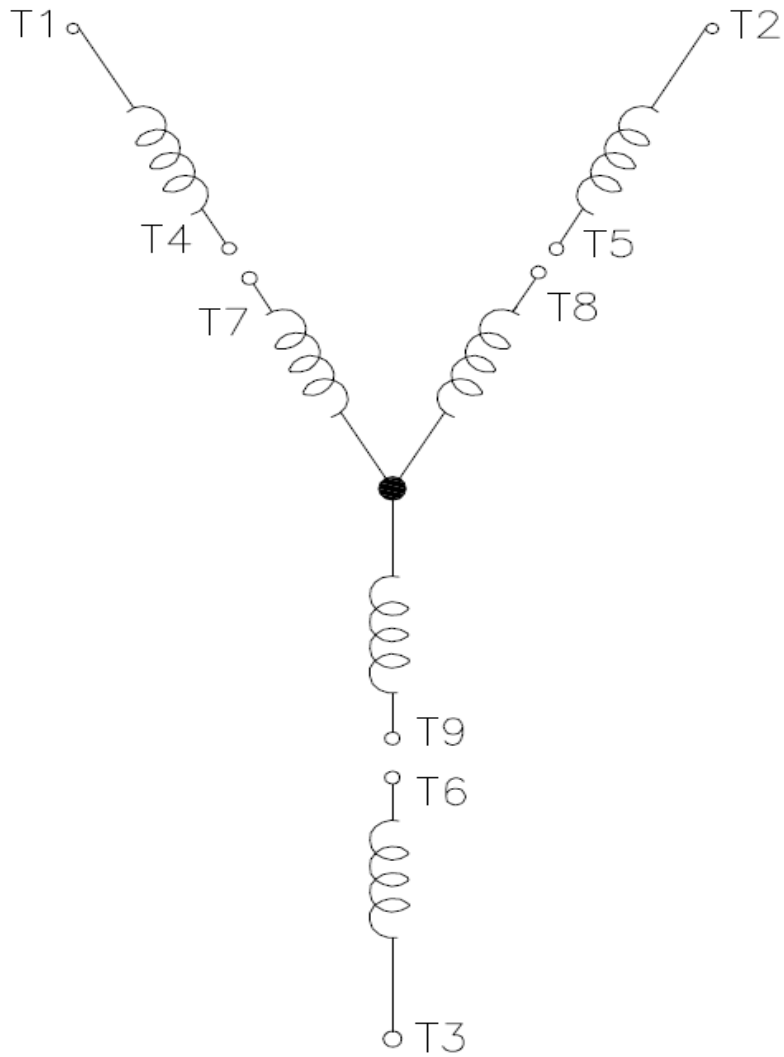
Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez			181318/2016-A1	
Checked by	marian			Page	Revision
Date	21/12/2017			1/1	1

Wiring Diagram

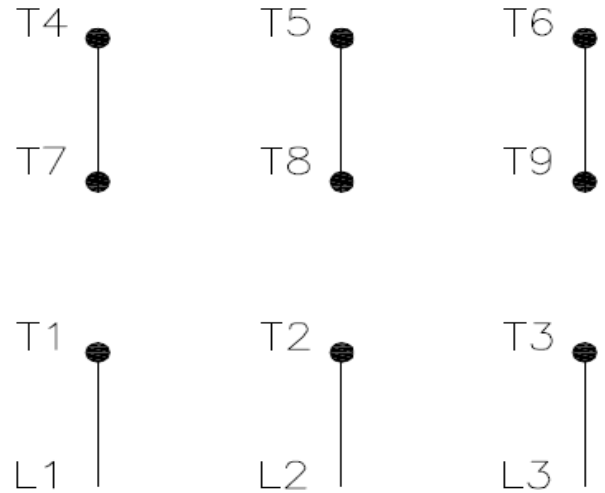


31LH32A

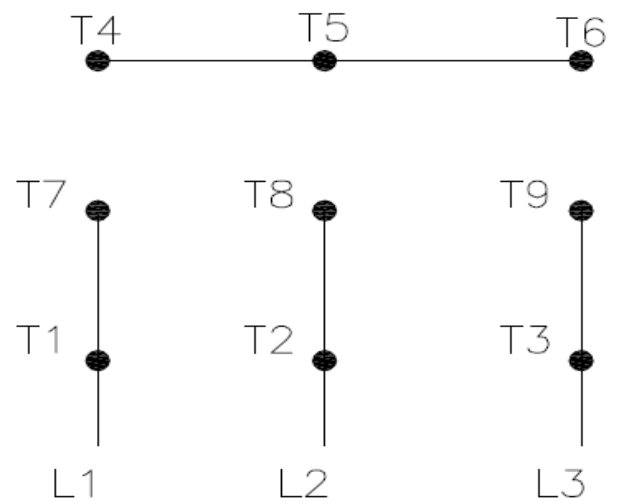
REV.
0



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.
31LH32A		0

16MAR18

Dayton

MADE IN MEXICO

NEMA
Premium

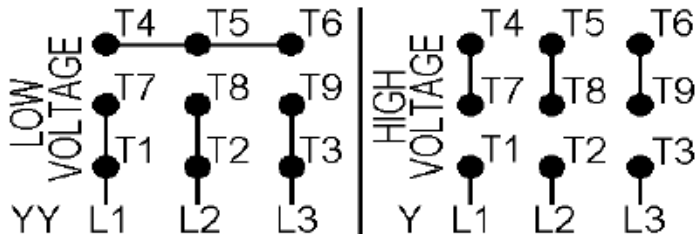
MODEL NO.

UL US**CE****SP**
US
Energy Verified**31LH32A**

TO0IC0X0X0000100646

MAT: 13827732

PH 3 HP (kW) 1.5(1.1)
 HZ 60 V 230/460
 RPM 3510 A 3.70/1.85
 FR 56H DES B
 IP 21 ENCL ODP
 AMB 40 °C CODE K
 SF 1.15 INS F ΔT 80 K
 SFA 4.2/2.1 A PF 0.89
 DUTY CONT
 AVG F.L. EFF. 84.0%



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
 1.5HP 4.42-3.94/2.21-2.09 A 2890 RPM S.F. 1.15

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

S/N: