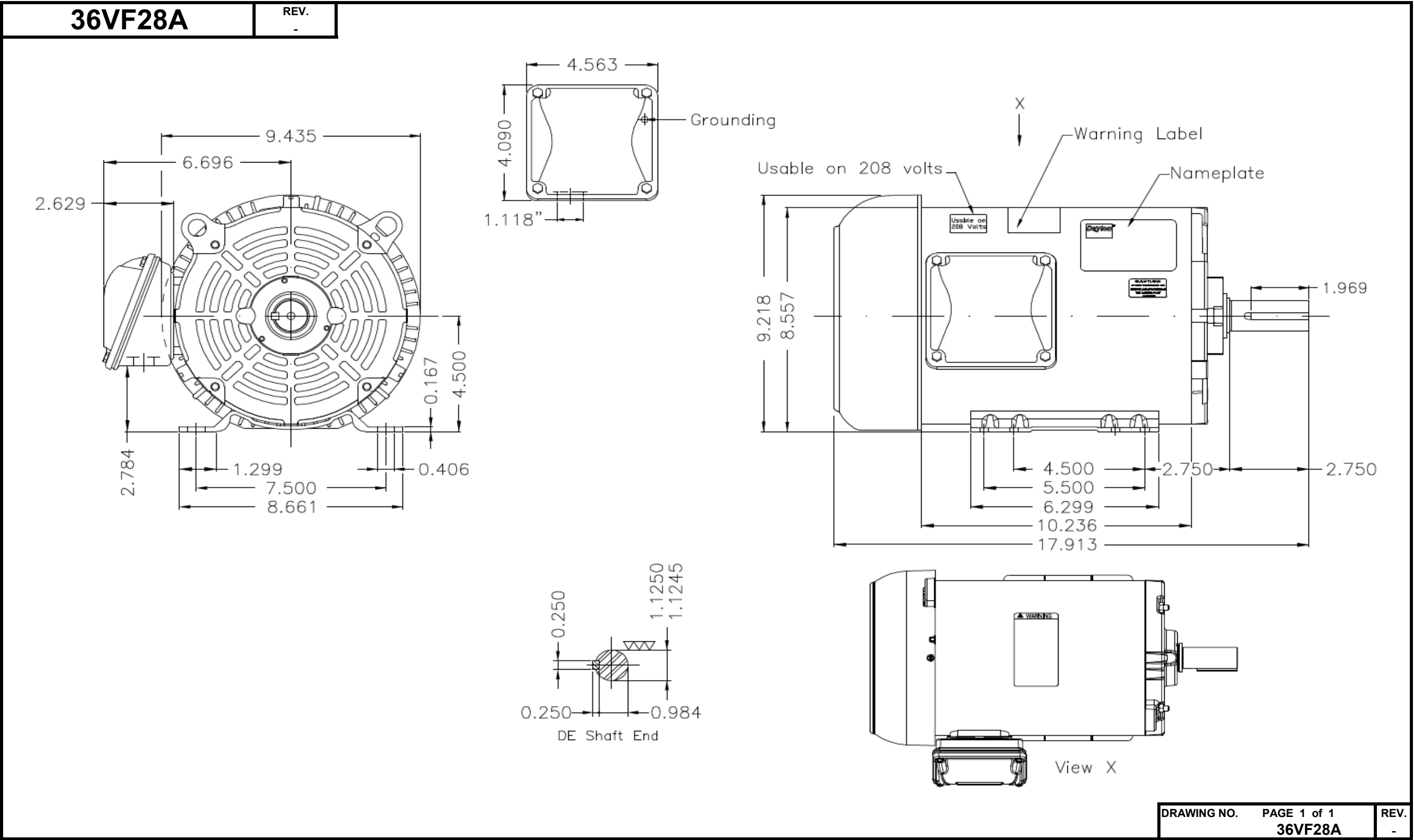


Dimensional Drawing



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

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - TEFC - NEMA Premium Efficiency

Frame	: 182/4T	Locked rotor time	: 18 s (hot) 32 s (cold)
Output	: 3 HP (2.2 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	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	: 7.62/3.81 A	Degree of protection	: IP55
L. R. Amperes	: 67.1/33.5 A	Cooling method	: IC411 - TEFC
LRC (p.u.)	: 8.8 Code K	Mounting	: F-1
No load current	: 4.00/2.00 A	Direct of rotation ¹	: Both
Rated speed	: 1765 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.23 kgfm	Approx. weight ³	: 36.4 kg
Locked rotor torque	: 220 %	Design	: B
Pull up torque	: 185 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0169 kgm ²		

Output	50%	75%	100%	Load type: -
Efficiency (%)	87.5	88.5	89.5	Load torque: -
Power factor	0.61	0.74	0.81	Load inertia (J=GD ² /4): -

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

* Dayton # 36VF28B

* Connection TT/T - Document 10003174770

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			230844/2014-A	
Checked by	mmoctezuma			Page	Revision
Date	20/02/2018			1/2	2

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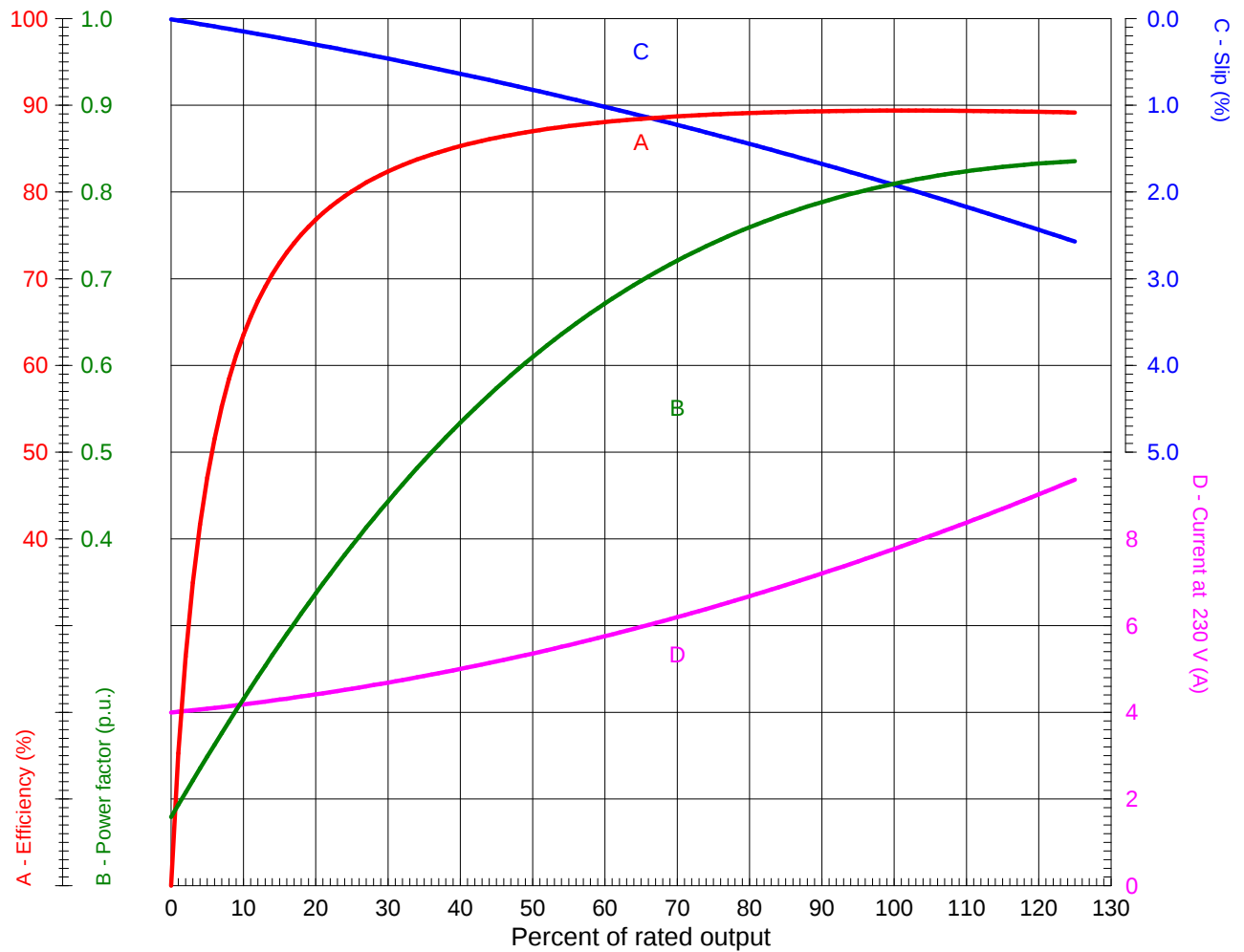
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - TEFC - NEMA Premium Efficiency



Performance : 3 HP (2.2 kW) 230/460 V 60 Hz 4P 182/4T

Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm ²
LRC (p.u.)	: 8.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez		230844/2014-A1 Page 1/1 Revision 2		
Checked by	mmoctezuma				
Date	20/02/2018				

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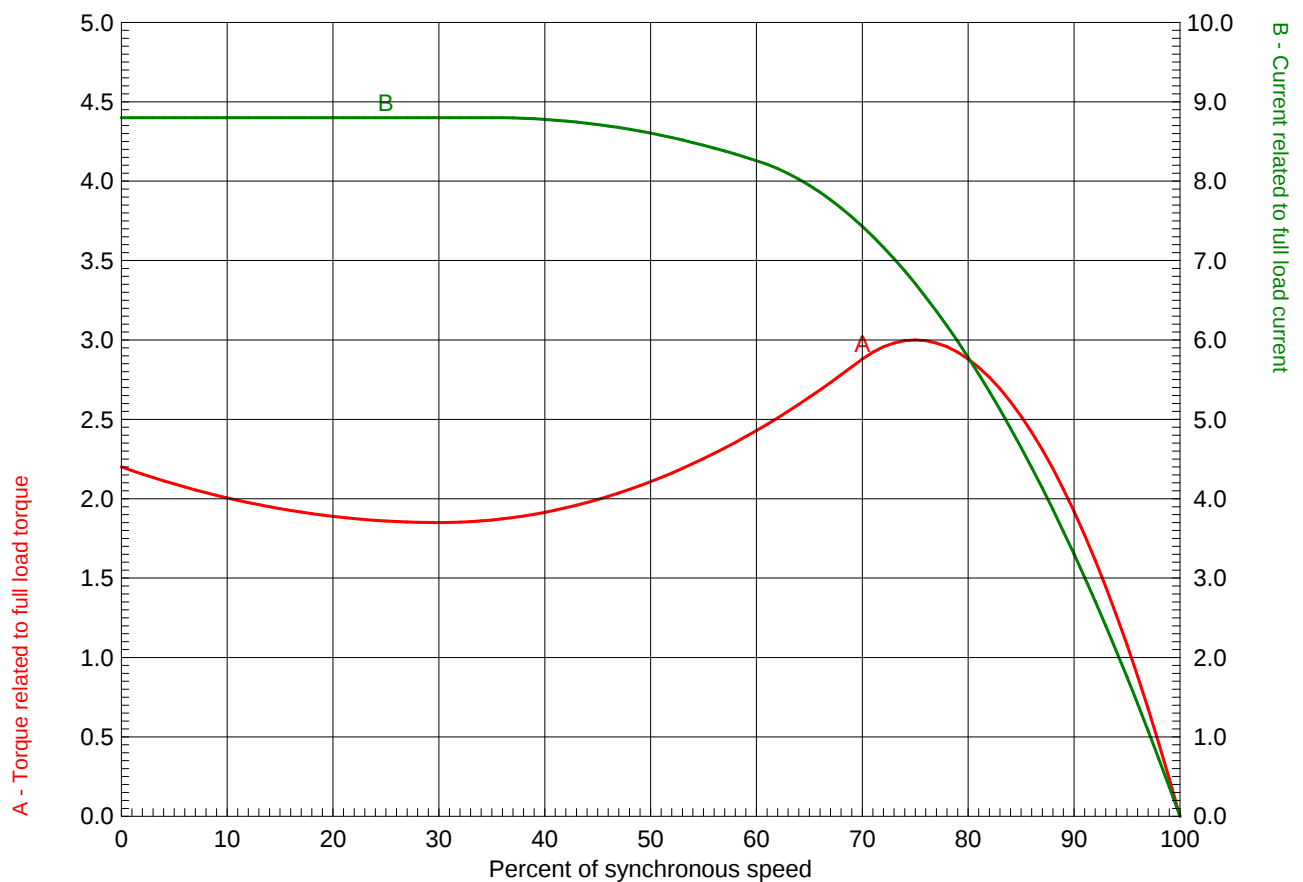
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - TEFC - NEMA Premium Efficiency



Performance : 3 HP (2.2 kW) 230/460 V 60 Hz 4P 182/4T

Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm ²
LRC (p.u.)	: 8.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time 100%	: 18 s (hot) 32 s (cold)
Load inertia (J=GD ² /4)	: 0.0169 kgm ²

Rev.	Summary of changes		Performed	Checked	Date
Performed by	mrsanchez		230844/2014-A1		
Checked by	mmoctezuma		Page	Revision	
Date	20/02/2018		1/1	2	

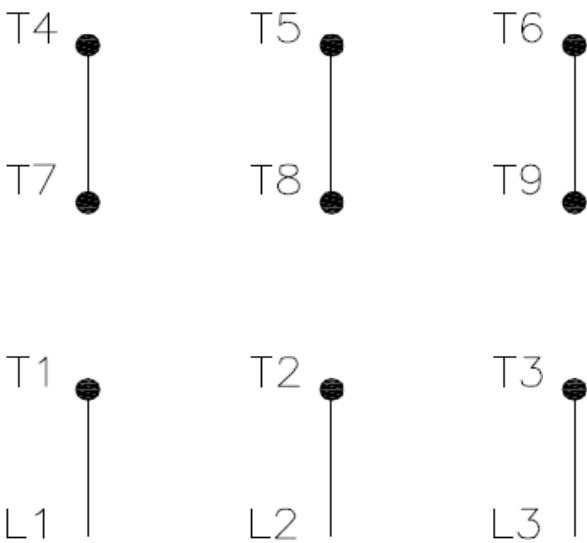
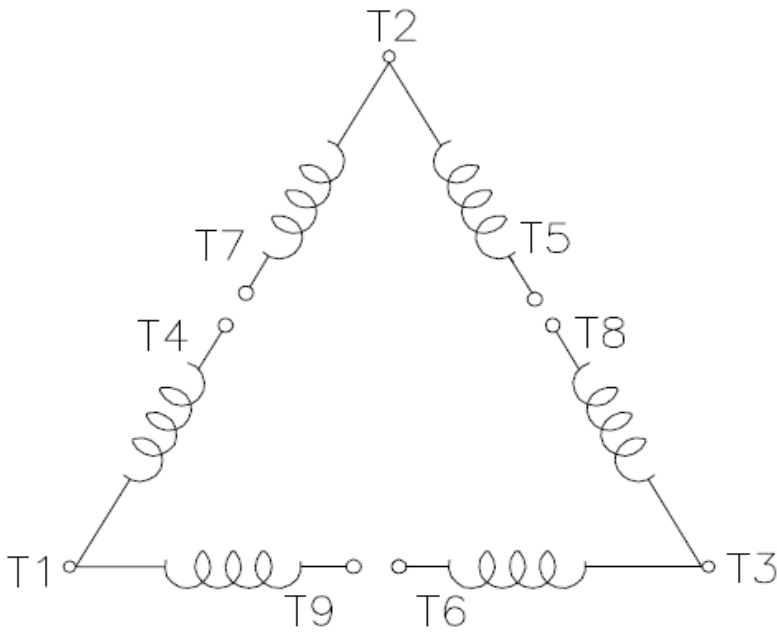
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Wiring Diagram

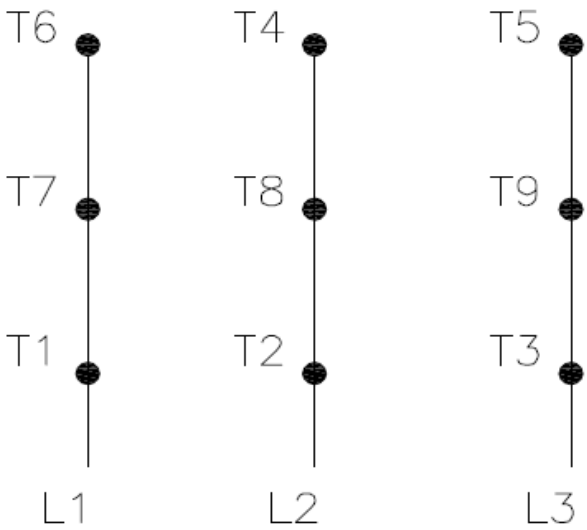


36VF28B

REV.
0



Low Voltage ($\Delta\Delta$)



- 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.

20MAR18

MAT: 13123411

S/N:

Dayton®

MADE IN MEXICO

NEMA®
Premium

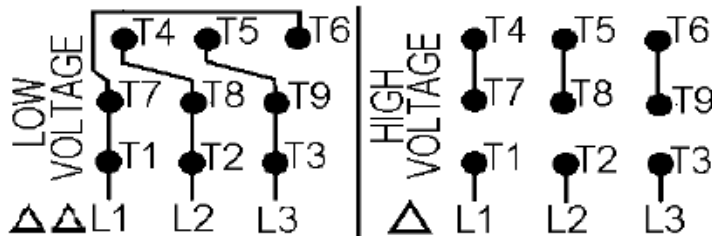
CC029A

MODEL NO.

36VF28B**UL**® **US****CE** **US**
Energy Verified

TE01C0X0N0000302084

PH 3 HP (kW) **3.00(2.20)**
 HZ **60** V **230/460**
 RPM **1765** A **7.62/3.81**
 FR **182/4T** DES **B**
 IP **55** ENCL **TEFC**
 AMB **40 °C** CODE **K**
 SF **1.15** INS **F** ΔT **80 K**
 SFA **8.7/4.3 A** PF **0.81**
 DUTY **CONT**
 NEMA NOM. EFF. **89.5%**



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
3HP 9.08-8.15/4.54-4.32 A 1455 RPM S.F.1.15

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