

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:	
Sales document	:	20794403 - 260
Product line	:	W01 - TEFC - Standard Efficiency

Output	: 0.5 HP (0.37 kW)	Locked rotor time	: 20 s (hot) 36 s (cold)
Poles	: 4	Temperature rise ⁴	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20 °C to +40 °C
Rated current	: 1.72/0.862 A	Altitude	: 1000 m.a.s.l
L. R. Amperes	: 12.1/6.03 A	Degree of protection	
LRC (p.u.)	: 7.0 Code L	Cooling method	: 80 K
No load current	: 1.20/0.600 A	Mounting	: F-1
Rated speed	: 1760 rpm	Direct of rotation ¹	: Both
Slip	: 2.22 %	Noise level ²	: 52.0 dB(A)
Rated torque	: 1.49 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 240 %	Coupling	: Direct
Pull up torque	: 200 %	Approx. weight ³	: 20.9 lb
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0593 sq.ft.lb		

Output	Start	50%	75%	100%	Load type: -
Efficiency (%)	-	68.0	74.0	77.0	Load torque: -
Power factor	0.70	0.48	0.61	0.70	Load inertia (J=GD ² /4): -

	Drive end	Non drive end	Foundation loads
Bearing type	6203-ZZ	6202-ZZ	Maximum traction : 44 lb
Lubrication interval	-	-	Maximum compression : 65 lb
Lubricant amount	-	-	
Lubricant type			

Notes:
 * Dayton # 36VF77B
 * 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.

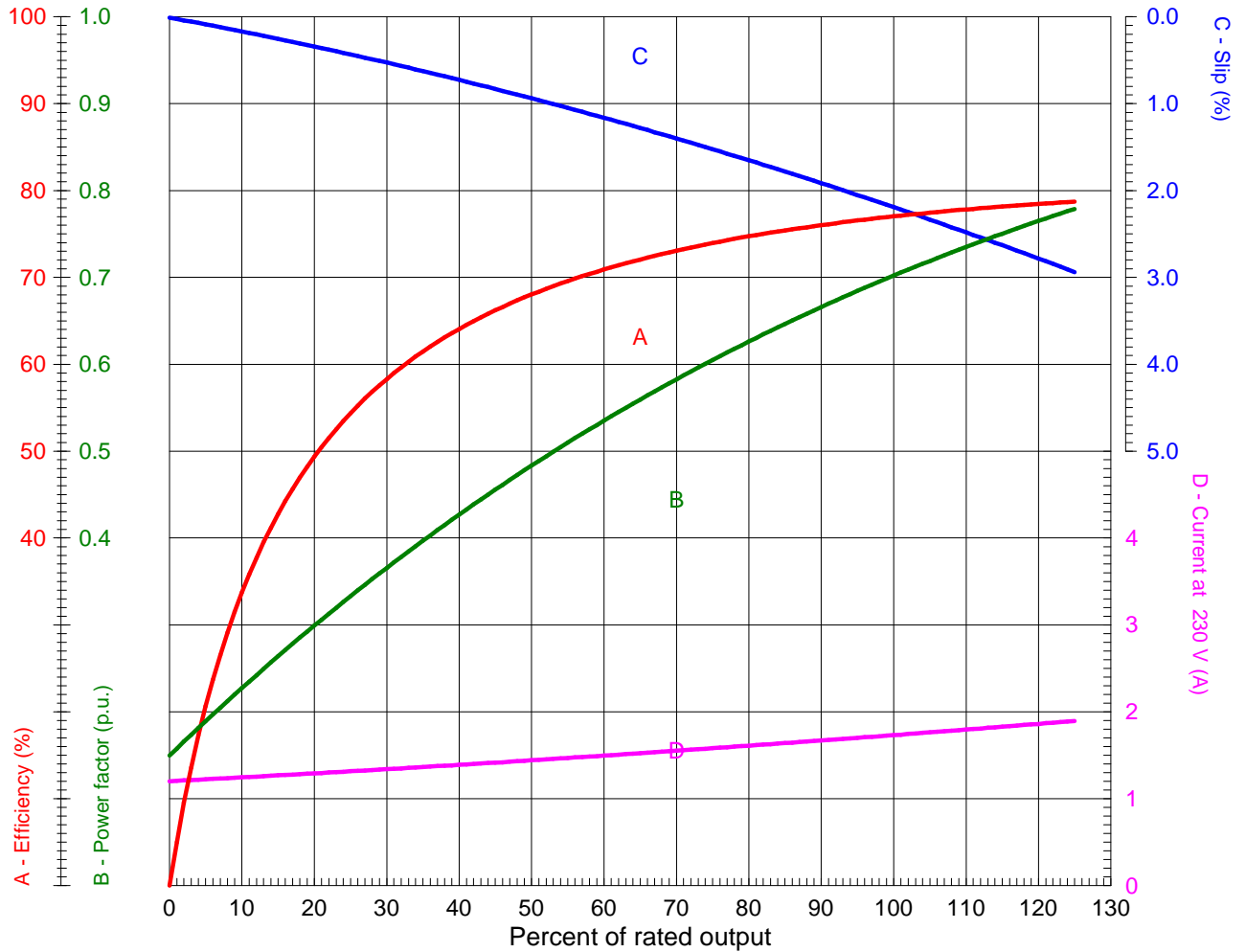
Rev.	Summary of changes	Performed	Checked	Date
Performed by	mrsanchez			172244/2016-A
Checked by	marian			Page Revision
Date	06/09/2017			1/2 2

LOAD PERFORMANCE CURVE



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Performance : 0.5 HP (0.37 kW) 230/460 V 60 Hz 4P

Rated current : 1.72/0.862 A	Moment of inertia (J) : 0.0593 sq.ft.lb
LRC (p.u.) : 7.0 Code L	Duty cycle : Cont.(S1)
Rated torque : 1.49 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.15
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 1760 rpm	

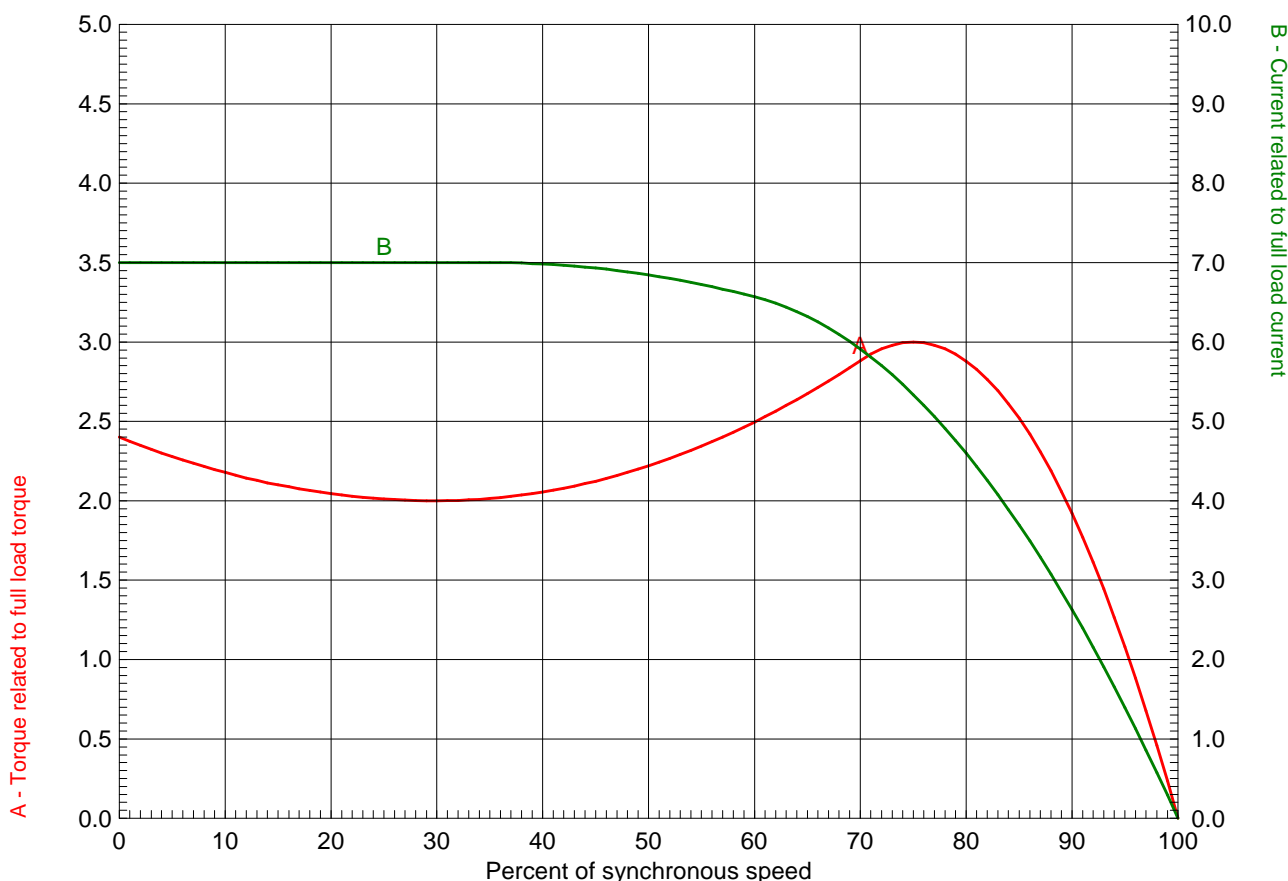
Rev.	Summary of changes	Performed	Checked	Date
Performed by	mrsanchez	Notes:		172244/2016-A1
Checked by	marian	* Dayton # 36VF77B		Page
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TORQUE AND CURRENT X SPEED CURVE



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Rated current : 1.72/0.862 A	Moment of inertia (J) : 0.0593 sq.ft.lb
LRC (p.u.) : 7.0 Code L	Duty cycle : Cont.(S1)
Rated torque : 1.49 ft.lb	Insulation class : F
Locked rotor torque : 240 %	Service factor : 1.15
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 1760 rpm	

Locked rotor time 100% : 20 s (hot) 36 s (cold)
 Load inertia (J=GD²/4) : 0.0593 sq.ft.lb

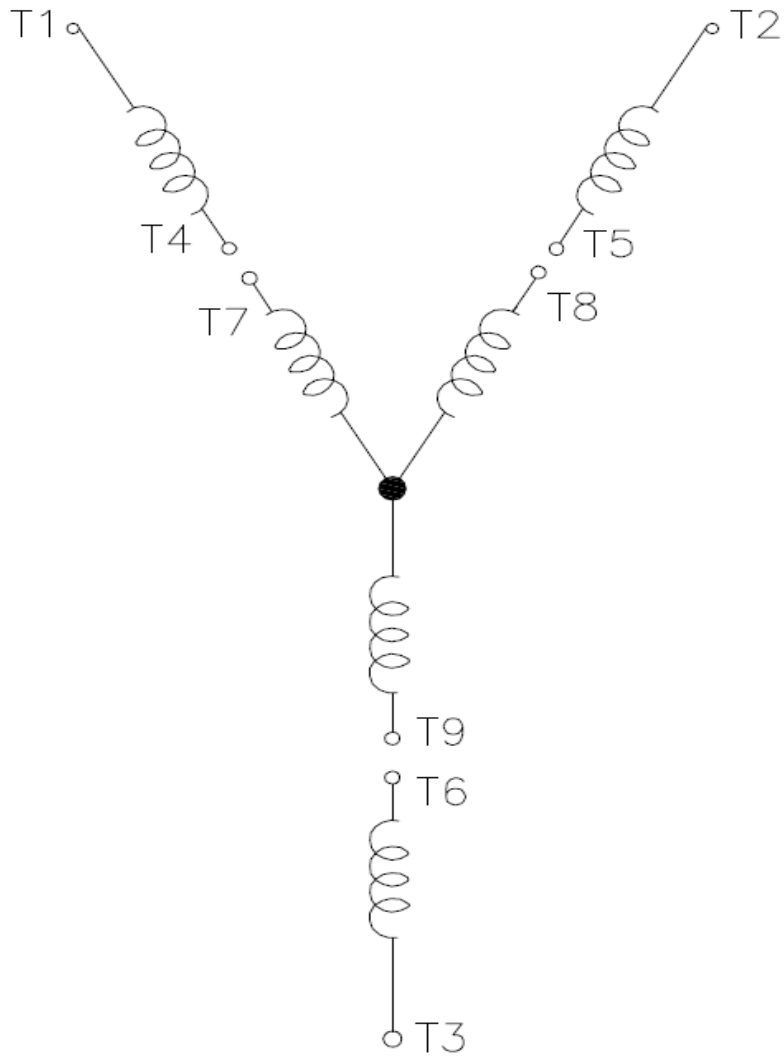
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Performed by	mrsanchez	Notes: * Dayton # 36VF77B * Connection YY/Y - Document 10003174687	172244/2016-A1		
Checked by	marian		Page	Revision	
Date	06/09/2017		1/1	2	

Wiring Diagram

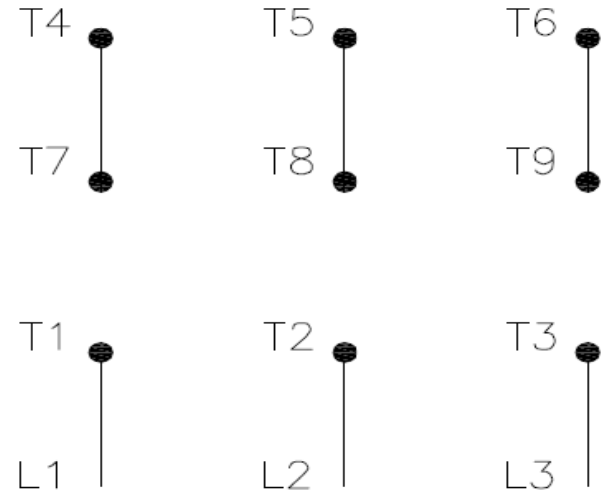


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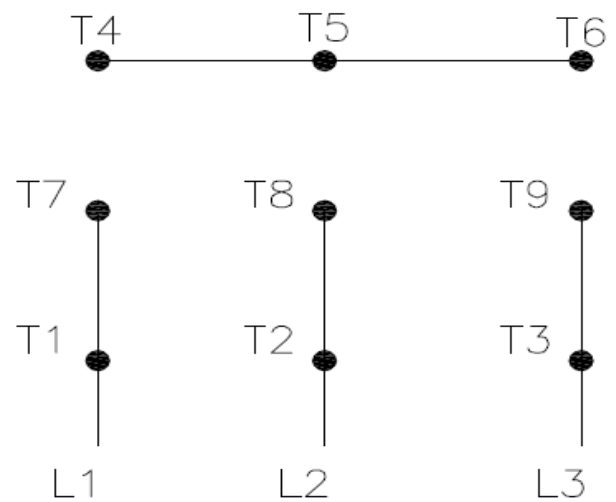
REV.
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High Voltage (Y)



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.
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Dayton®

MADE IN MEXICO

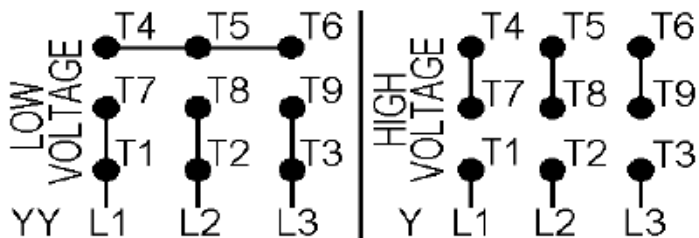
MODEL NO.

36VF77B

TE01C0X0X0000300355

MAT: 13846769

PH 3 HP (kW) 0.5(0.37)
 HZ 60 V 230/460
 RPM 1760 A 1.72/0.86
 FR 56C DESA
 IP 55 ENCL TEFC
 AMB 40 °C CODE L
 SF 1.15 INS F ΔT 80 K
 SFA 1.9/0.9A PF 0.70
 DUTY CONT
 NEMA NOM. EFF. 77.0%



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
 0.5HP 1.90-1.81/0.95-0.96 A 1445 RPM S.F. 1.15

S/N:

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