### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14497316 Three-Phase Catalog #: 05018OT3V326TS-W40 Frame : 324/6TS Locked rotor time : 19s (cold) 11s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 135/67.3 A Protection degree : IP23 L. R. Amperes : 848/424 A Cooling method : IC01 - ODP : 6.3x(Code G) LRC Mounting : F-1 No load current : 53.4/26.7 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight<sup>3</sup> : 510 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 94.5 Efficiency (%) 94.1 94.5 Max. traction Power Factor 0.44 0.70 0.80 0.84 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3 Sealing

Lubricant type

Lubrication interval

Lubricant amount

Without Bearing Seal 20000 h 21 g

Without Bearing Seal 20000 h

11 g

Mobil Polyrex EM

Notes

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

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

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

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



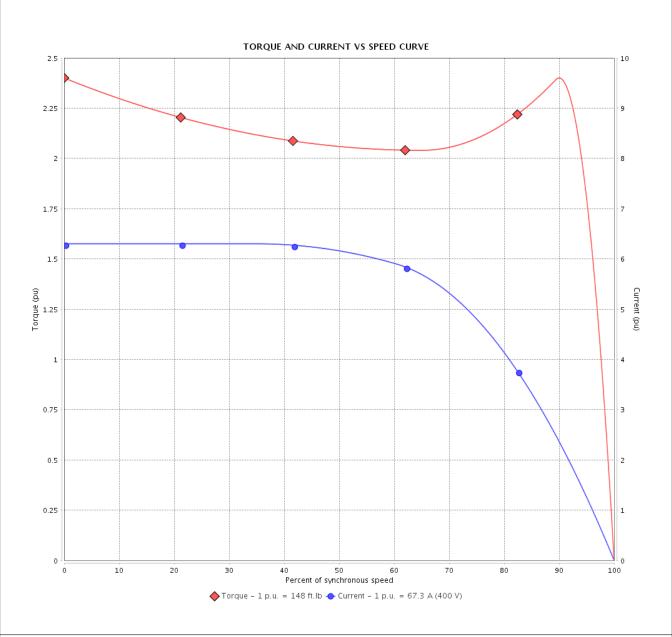
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497316

Catalog #: 05018OT3V326TS-W40



Performance : 200/400 V 60 Hz 4P Rated current : 135/67.3 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

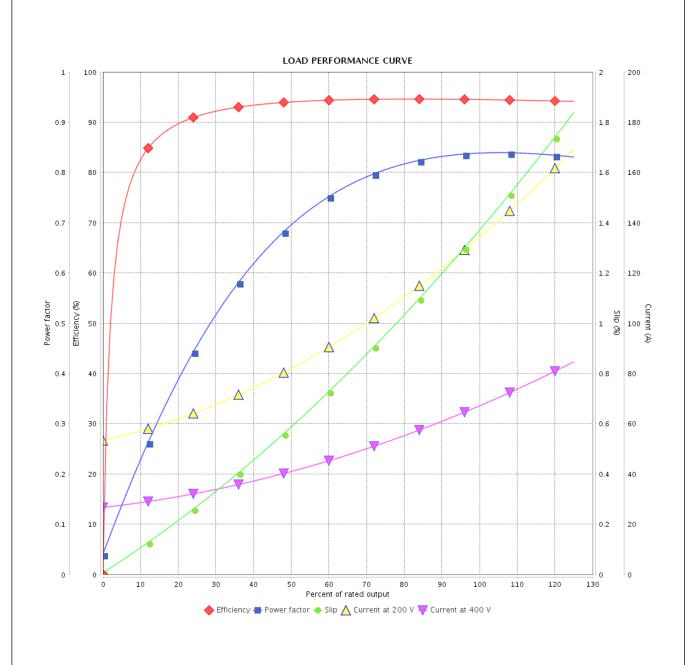


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14497316

Three-Phase

Catalog #: 05018OT3V326TS-W40



Performance		: 200/400 V 60 Hz 4P						
Rated current :		35/67.3 A	7.3 A Moment of inertia (J)		: 7.08 sq.ft.lb			
LRC	: 6	5.3	Duty cycle		: Cont.(S1)			
Rated torque : 1		48 ft.lb	Insulation class		: F			
Locked rotor torque		240 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	240 %	7 % Temperature rise		: 80 K			
Rated speed	: 1	775 rpm	Design	Design				
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



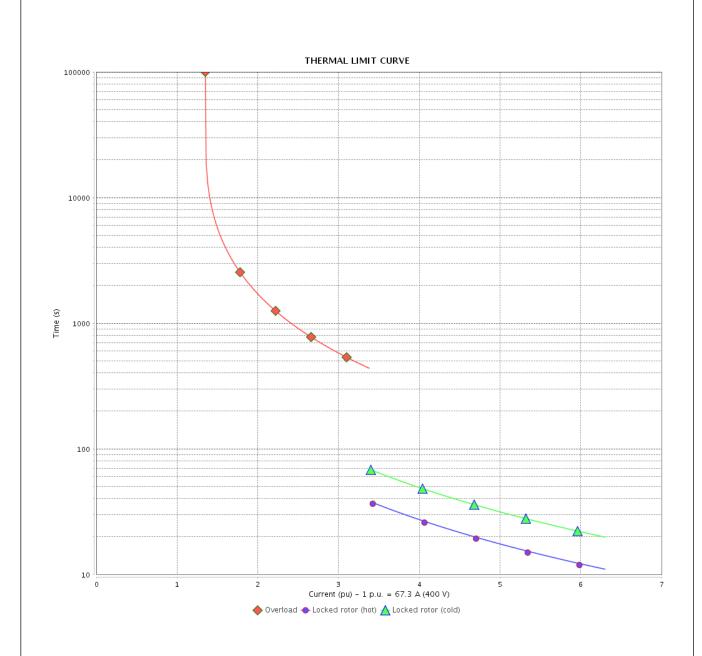
Customer		:				
Product line		· M/40 NICMA Dromium Effici	2001	Product code :	14497316	
Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Froduct code .	14497310	
				Catalog # :	05018OT3V3	26TS-W40
Performance		200/400 V 60 Hz 4P				
Rated current LRC		135/67.3 A 6.3	Moment of Duty cycle	f inertia (J)	: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque		148 ft.lb	Insulation		: F	
Locked rotor torc	jue :	240 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		240 %	Temperati	ure rise	: 80 K : B	
		1775 rpm	Design		. D	
Heating constant						
Cooling constant		Observe O		Devit 1	Ob. 1	
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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

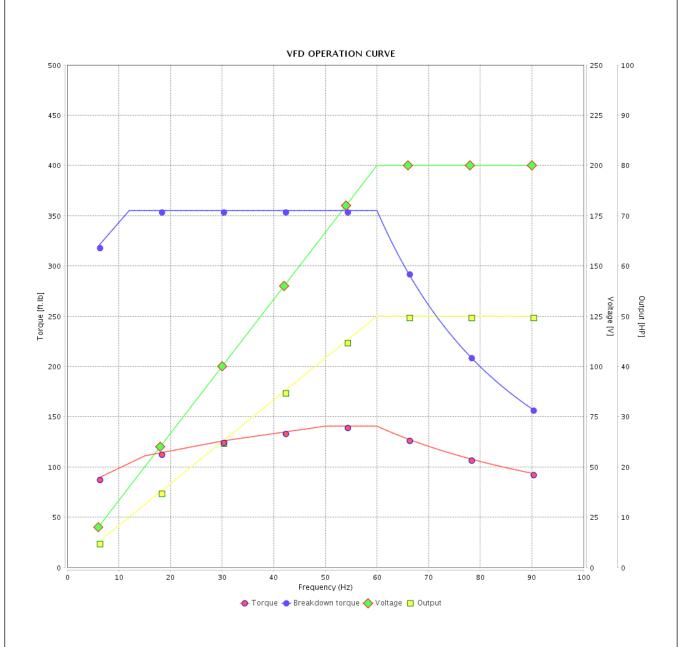
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497316

Catalog #: 05018OT3V326TS-W40

6/6



Performance		: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 14 que : 24 ue : 24	35/67.3 A 3 48 ft.lb 40 % 40 % 775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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Checked by					Page	Revision		

12/04/2022

Date

