DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 High Efficiency Three-Phase Product code: Catalog #: 03018OP3VFP286TS-W40 Locked rotor time Frame : 284/6TS : 39s (cold) 22s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 200/400 V Rated voltage Altitude : 1000 m.a.s.l. Rated current : 81.9/40.9 A Protection degree : IP23 : IC01 - ODP L. R. Amperes : 516/258 A Cooling method **LRC** : 6.3x(Code F) Mounting : F-1 No load current : 25.3/12.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Starting method : Direct On Line Slip : 1.94 % Approx. weight3 : 383 lb Rated torque : 89.3 ft.lb Locked rotor torque : 250 % Breakdown torque : 250 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 3.70 sq.ft.lb Design 25% 100% Output 50% 75% Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.49 0.71 0.80 0.84 Max. compression Drive end Non drive end Bearing type 6311 Z C3 6211 Z C3 Without Bearing Seal Without Bearing Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 18 g 11 g

Mobil Polyrex EM

Notes

Lubricant type

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

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MG-1.

TORQUE AND CURRENT VS SPEED CURVE

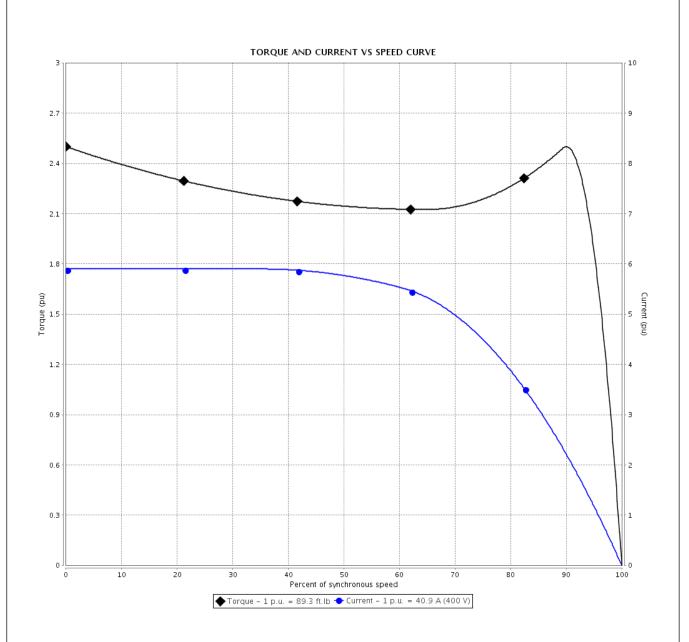
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14490663

Catalog # : 03018OP3VFP286TS-W40



Performance : 200/400 V 60 Hz 4P Rated current : 81.9/40.9 A Moment of inertia (J) : 3.70 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 89.3 ft.lb Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

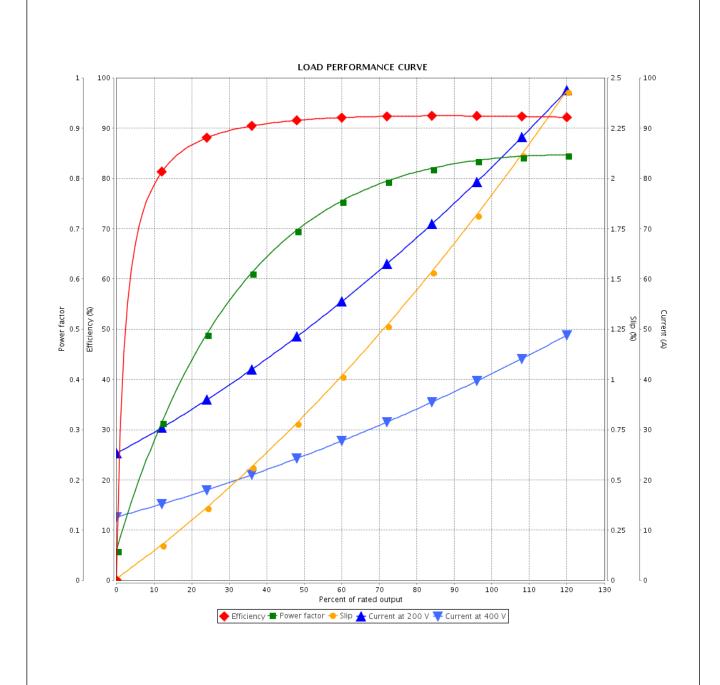
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 High Efficiency Three-Phase Product code : 14490663

Catalog # : 03018OP3VFP286TS-W40



Performance	: 2	200/400 V 60 Hz 4P				
Rated current		1.9/40.9 A Moment of inertia (J)		f inertia (J)	: 3.70 sq.ft.lb	
LRC		3.3	Duty cycle		: Cont.(S1)	
Rated torque		39.3 ft.lb	Insulation class		: F ` ´	
Locked rotor torque		250 %	Service factor		: 1.15	
Breakdown torque		250 %	Temperature rise		: 80 K	
Rated speed	: 1	: 1765 rpm		Design		
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THERMAL LIMIT CURVE

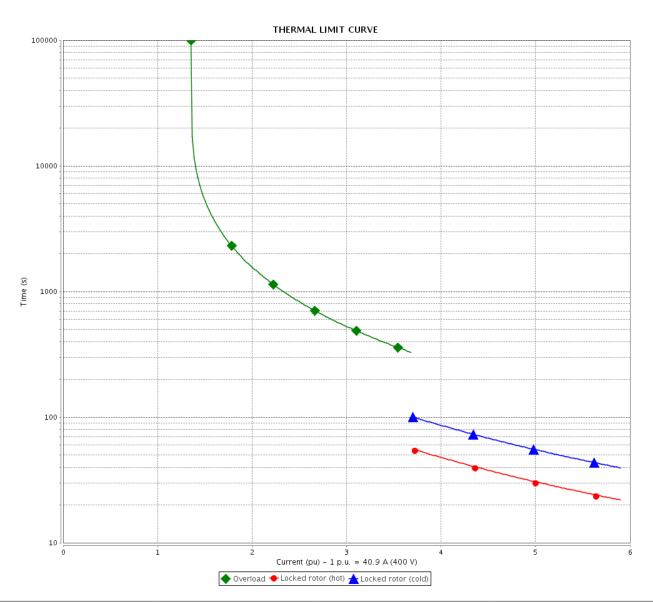
Three Phase Induction Motor - Squirrel Cage



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Product line : W40 High Efficiency Three-Phase Product code : 14490663

Catalog #: 03018OP3VFP286TS-W40



Performance	: 200/400 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.9/40.9 A : 6.3 : 89.3 ft.lb : 250 % : 250 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.70 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B
Heating constant Cooling constant	<u>'</u>		

Cooling constant	ţ				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

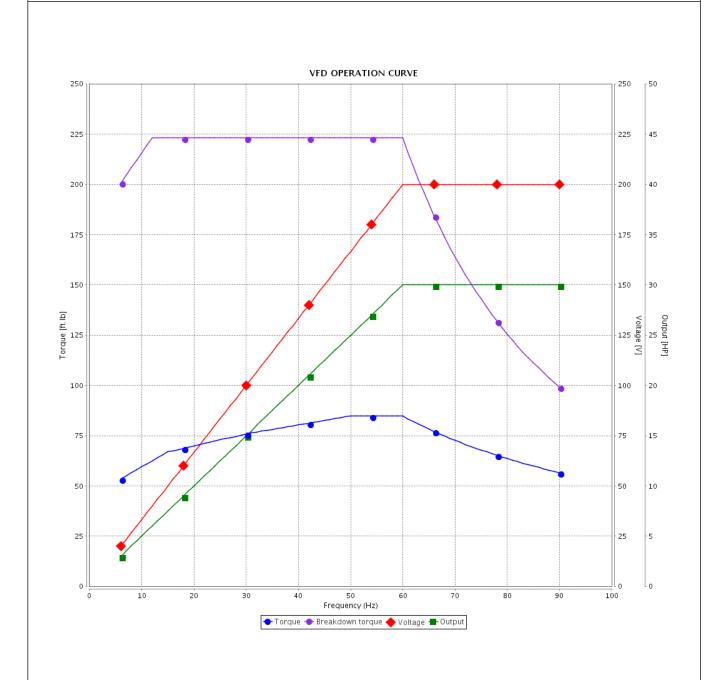
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03018OP3VFP286TS-W40 Catalog #:

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Revision



Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.9/40.9 A : 6.3 : 89.3 ft.lb : 250 % : 250 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.70 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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