DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14270552 Efficiency Three-Phase Catalog #: 12518OT3G405JP-W40 Frame : 404/5JP Locked rotor time : 18s (cold) 10s (hot) Output : 125 HP Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 138 A Protection degree : IP23 L. R. Amperes : 952 A Cooling method : IC01 - ODP : 6.9x(Code G) LRC Mounting : F-1 No load current : 47.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 369 ft.lb Approx. weight³ : 1072 lb Locked rotor torque : 270 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 25.5 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.4 : 2869 lb Efficiency (%) 94.9 95.0 95.4 Max. traction Power Factor 0.50 0.86 : 3941 lb 0.75 0.83 Max. compression Non drive end Drive end 6314 C3 Bearing type 6212 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Lubricant amount : 27 g
Lubricant type : 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.

13 g

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



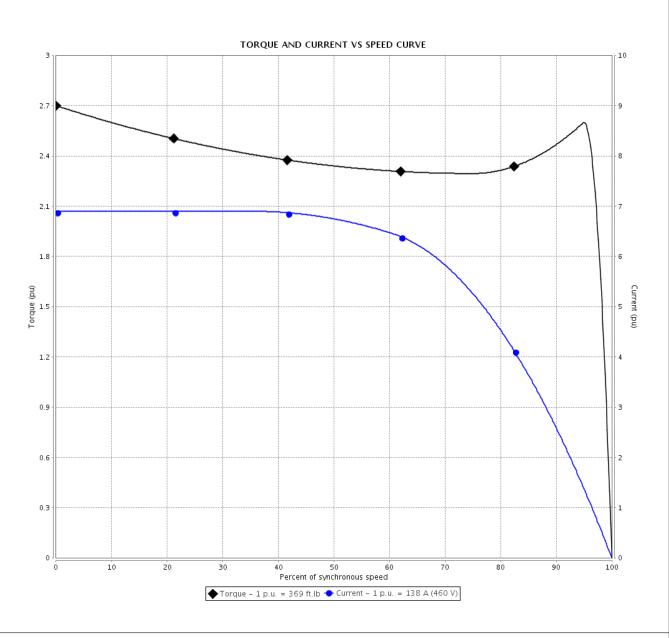
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270552

Catalog #: 12518OT3G405JP-W40



Performance : 460 V 60 Hz 4P Rated current : 138 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 369 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K

Rated speed : 1780 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

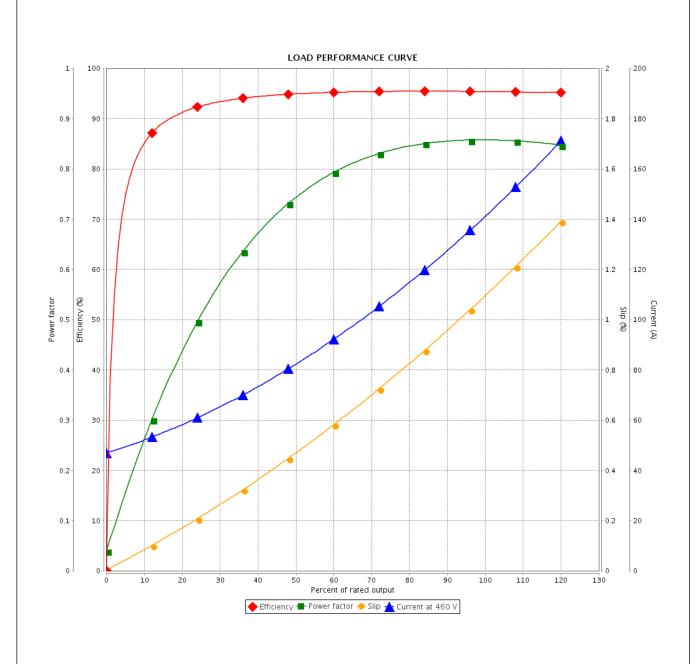
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270552

Catalog #: 12518OT3G405JP-W40

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Performance	: 460 V 60 Hz 4P				
Rated current	: 138 A	Moment of inertia (J)		: 25.5 sq.ft.lb	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 369 ft.lb	Insulation class Service factor Temperature rise Design		: F : 1.25 : 80 K : B	
Locked rotor torque	: 270 %				
Breakdown torque	: 260 %				
Rated speed	: 1780 rpm				
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Checked by				Page	Revision

10/04/2020

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



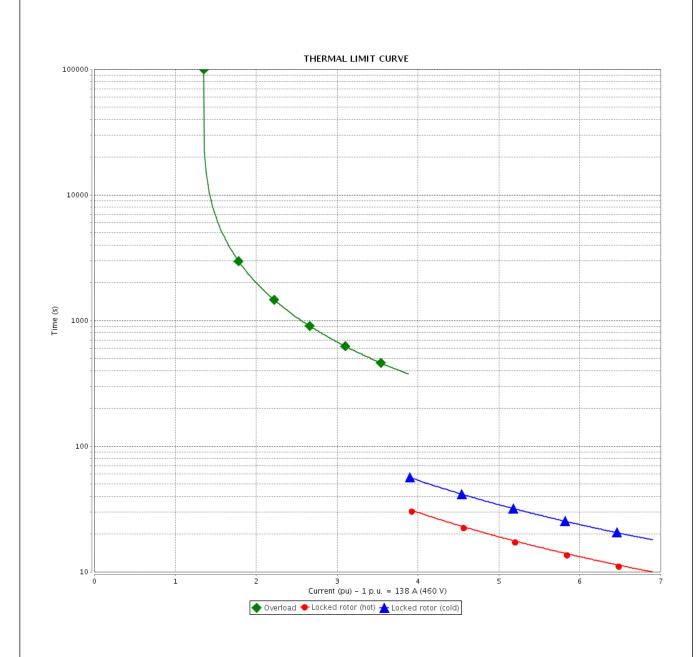
Customer		:					
Product line		· M/40 ID Dump NEMA Drom	ium	Product code :	14270552	44070550	
		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iiuiii	Froduct code .	14270552		
		•		Catalog # :	12518OT3G4	105JP-W40	
Performance	:	460 V 60 Hz 4P					
Rated current		138 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb		
				class	: Cont.(S1) : F	: Cont.(S1) : F	
Locked rotor torque		: 270 % Service		ctor	: 1.25		
Breakdown torque		: 260 % Tempera : 1780 rpm Design		ature rise : 80 K : B			
			- 50,9"		· -		
Heating constant							
Cooling constant Rev.		Changes Summary		Performed	Checked	Date	
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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



Revision

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Customer :

Checked by

Date

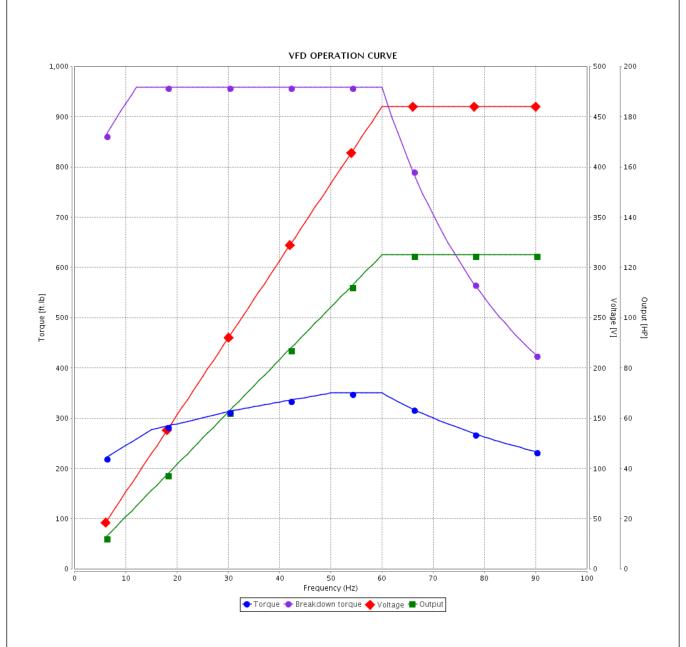
10/04/2020

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14270552

Catalog #: 12518OT3G405JP-W40



Performance : 460 V 60 Hz 4P : 138 A Rated current Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 369 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

