DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 High Efficiency Three-Phase Product code: 14281212 Catalog #: 06018OP3HFP364TS-W40 Frame : 364/5TS Locked rotor time : 39s (cold) 22s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 56.8 A Protection degree : IP23 L. R. Amperes : 346 A Cooling method : IC01 - ODP LRC : 6.1x(Code G) Mounting : F-1 No load current : 18.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1777 rpm Starting method : Direct On Line : 658 lb Slip : 1.28 % Approx. weight³ Rated torque : 177 ft.lb Locked rotor torque : 180 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 12.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads : 1068 lb Efficiency (%) 92.9 93.0 93.6 93.6 Max. traction

Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3SealingWithout Bearing Seal
Lubrication intervalWithout Bearing Seal
20000 hWithout Bearing Seal

0.85

Lubricant amount : 27 g 13 g

0.82

Lubricant type : Mobil Polyrex EM

0.73

Notes

Power Factor

0.49

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.

: 1726 lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

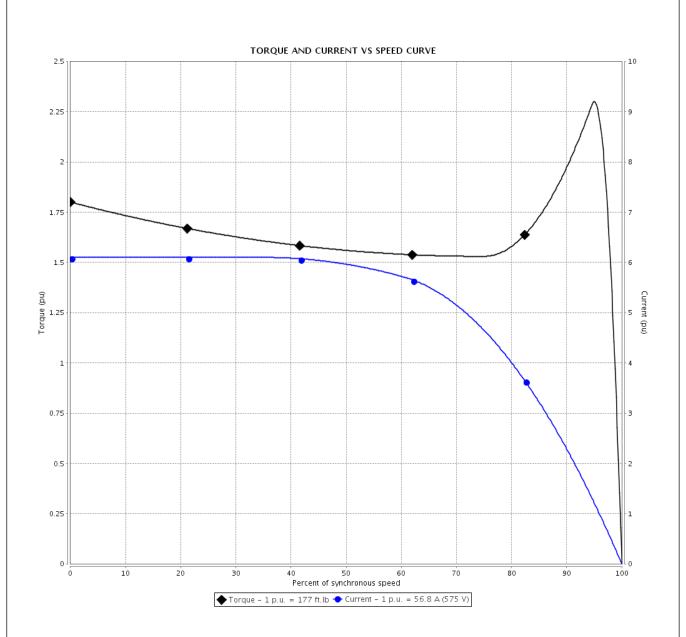


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14281212

Catalog #: 06018OP3HFP364TS-

W40



: 575 V 60 Hz 4P Performance Rated current : 56.8 A Moment of inertia (J) : 12.8 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 180 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1777 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

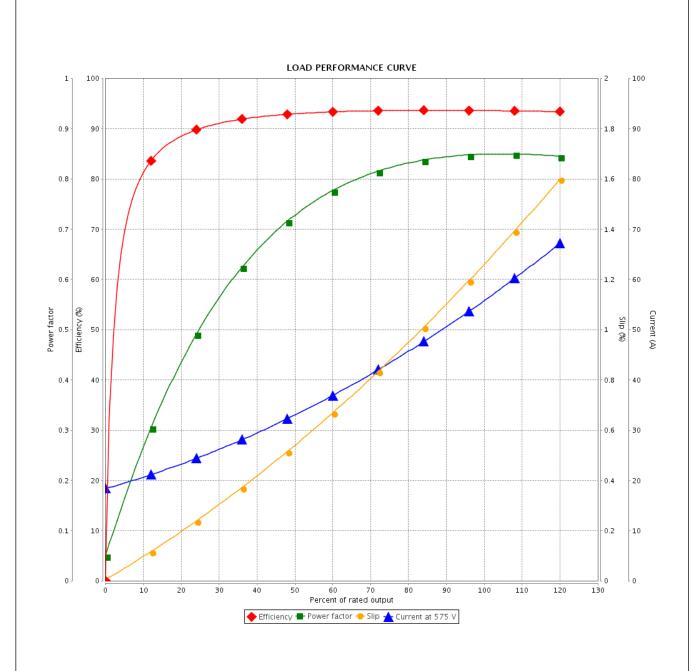


Customer

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Catalog #: 06018OP3HFP364TS-

W40



Performance		: 575 V 60 Hz 4P					
Rated current		6.8 A Moment of inert		f inertia (J)	: 12.8 sq.ft.lb		
LRC :		5.1	Duty cycle		: Cont.(S1)		
Rated torque		77 ft.lb	b Insulation class		:F		
Locked rotor torque		80 %	Service factor		: 1.15		
Breakdown torque	: 2	: 229 % : 1777 rpm		Temperature rise Design			
Rated speed	: 1						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



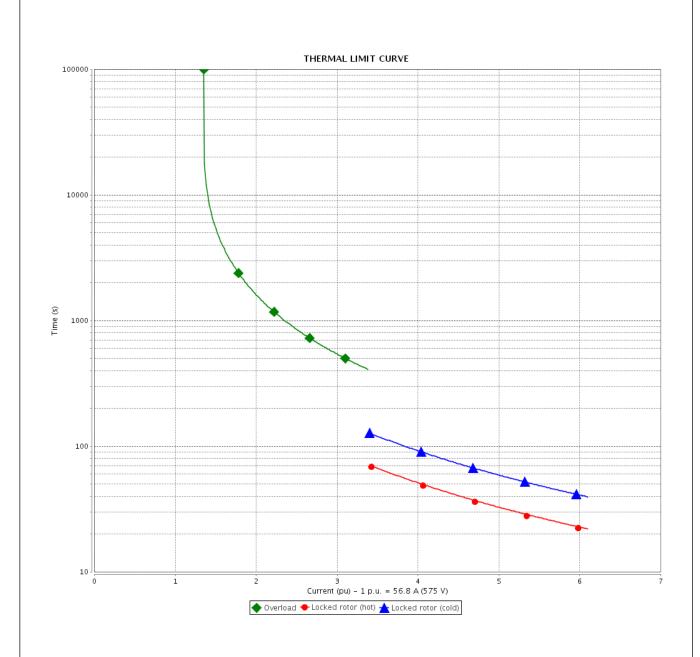
Customer	:	:				
Product line	:	: W40 High Efficiency	Three-Phase	Product code : Catalog # :	14281212 06018OP3H W40	FP364TS-
Performance	: :	575 V 60 Hz 4P				
Rated current		56.8 A	Momen	t of inertia (J)	: 12.8 sq.ft.lb	
LRC Rated torque		6.1 177 ft.lb	Duty cy Insulation	cle on class	: Cont.(S1) : F	
Locked rotor tord	que :	180 %	Service	factor	: 1.15	
Breakdown torqu Rated speed		229 % 1777 rpm	Temper Design	ature rise	: 80 K : B	
Heating constan			Design		. <u> </u>	
Cooling constant						
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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 :

Date

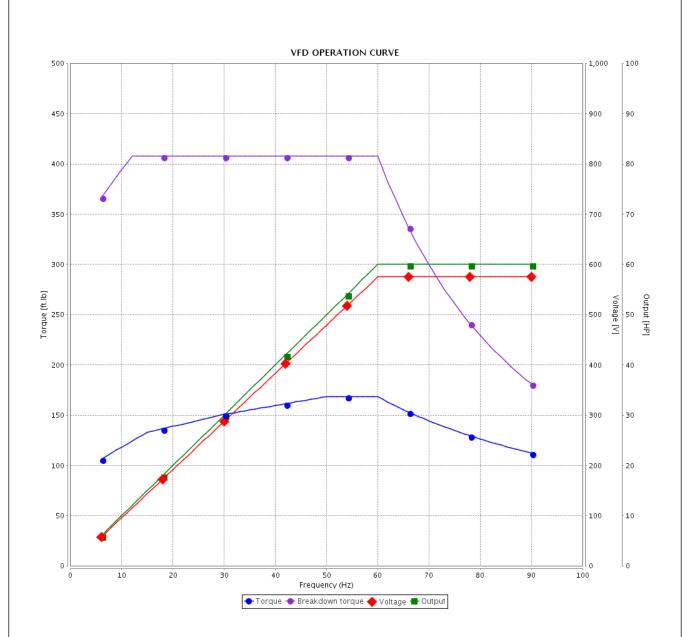
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Product line : W40 High Efficiency Three-Phase Product code : 14281212

Catalog #: 06018OP3HFP364TS-

W40

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Performance : 575 V 60 Hz 4P Rated current : 56.8 A Moment of inertia (J) : 12.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1777 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

