### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12712077 Catalog #: 02018ET3H256JP-W22 Frame : 254/6JP Locked rotor time : 54s (cold) 30s (hot) Output : 20 HP (15 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 : 19.3 A Protection degree : IP55 L. R. Amperes : 133 A Cooling method : IC411 - TEFC LRC : 6.9x(Code H) Mounting : F-1 No load current : 7.68 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1770 rpm Noise level<sup>2</sup> : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight<sup>3</sup> : 341 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.10 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 92.4 : 569 lb Efficiency (%) 91.7 93.0 Max. traction Power Factor 0.79 0.84 0.68 Max. compression : 910 lb Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

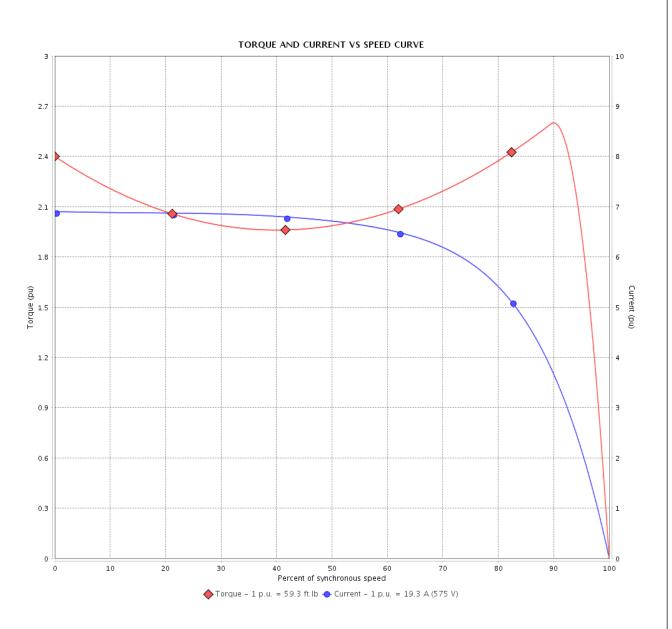


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02018ET3H256JP-W22

12712077



Performance : 575 V 60 Hz 4P Rated current : 19.3 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Locked rotor time : 54s (cold) 30s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

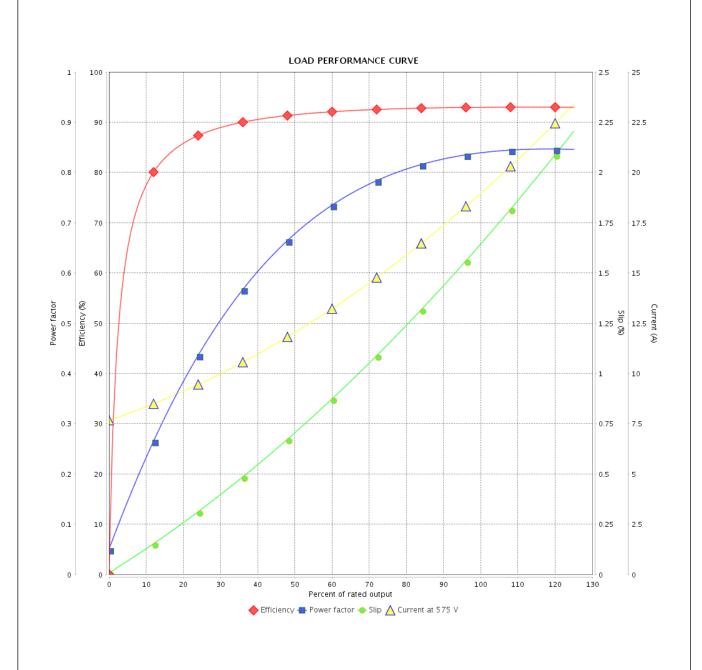


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12712077

Phase

Catalog #: 02018ET3H256JP-W22



Performance	: :	: 575 V 60 Hz 4P						
Rated current	:	19.3 A	Moment of inertia (J)		: 3.10 sq.ft.lb			
LRC	: (	6.9	Duty cycle		: Cont.(S1)			
Rated torque	: :	59.3 ft.lb	Insulation class		: F ` ´			
Locked rotor torque	e ::	240 %	Service factor		: 1.25			
Breakdown torque	: :	260 %	Temperature rise		: 80 K			
Rated speed	:	1770 rpm	Design		: B			
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



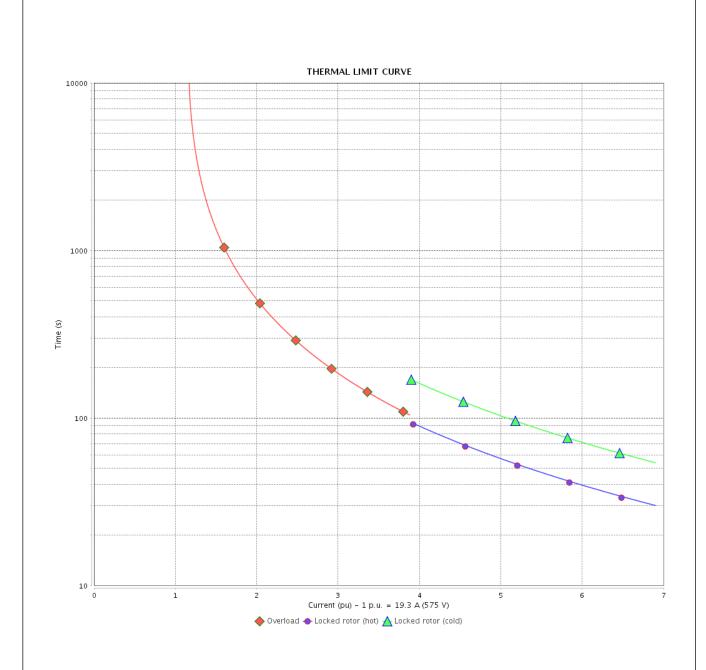
Customer	:					
Product line	: NEMA Pi Phase	remium Efficiency Thre	e- F	Product code:	12712077	
	i ilase		(	Catalog # :	02018ET3H2	256JP-W22
Performance	: 575 V 60 I					
Rated current LRC	: 19.3 A : 6.9	Mo	ment of ty cycle	inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque	: 59.3 ft.lb	Ins	ulation		: F	
Locked rotor torque Breakdown torque	: 240 % : 260 %		rvice fac nperatu		: 1.25 : 80 K	
Rated speed	: 1770 rpm		sign	10 1100	: B	
Heating constant						
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



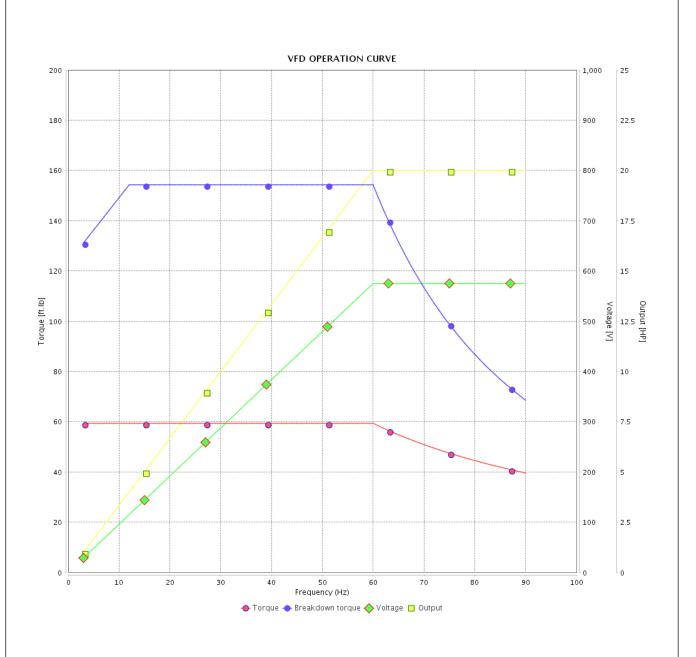
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712077

Catalog #: 02018ET3H256JP-W22



Performance	: 5	575 V 60 Hz 4P					
Rated current		9.3 A	Moment of	Moment of inertia (J)			
LRC : 6		6.9	Duty cycle	Duty cycle			
Rated torque		9.3 ft.lb	Insulation class		: Cont.(S1) : F		
Locked rotor torq	ue : 2	240 %	Service fa	Service factor		: 1.25	
Breakdown torqu	e : 2	260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	770 rpm	Design		: B		
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