DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12712075 Catalog #: 02036ET3H256JP-W22 Frame : 254/6JP Locked rotor time : 37s (cold) 21s (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 : 18.6 A Protection degree : IP55 L. R. Amperes : 113 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 5.20 A Rotation¹ : Both (CW and CCW) Rated speed : 3525 rpm Noise level² : 72.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 29.8 ft.lb Approx. weight³ : 331 lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.54 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.0 : 177 lb Efficiency (%) 91.4 91.0 91.7 Max. traction : 508 lb Power Factor 0.87 0.89 0.57 0.82 Max. compression Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 19000 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



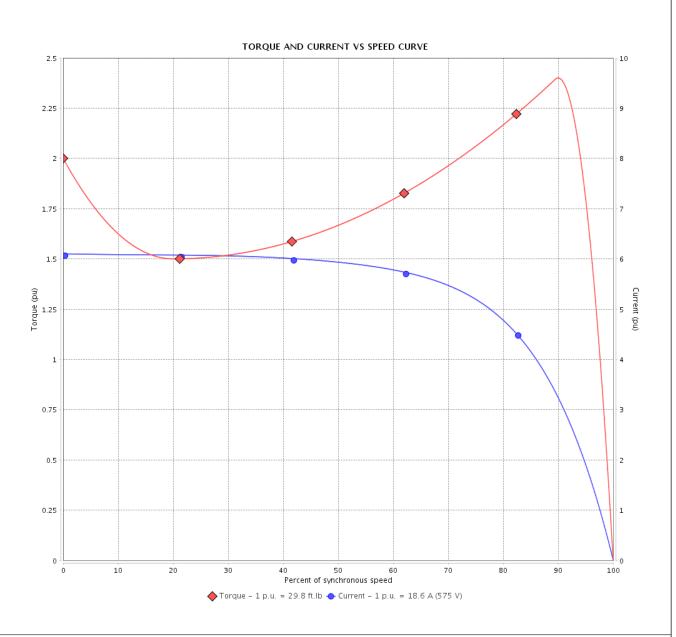
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ET3H256JP-W22

12712075



Performance	: 575 V 60 Hz 2P			
Rated current	: 18.6 A	Moment of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 29.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 3525 rpm	Design	: B	
Laster durate a time a	. 07- (1-1) 04- (14)	'		

Locked rotor time : 37s (cold) 21s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

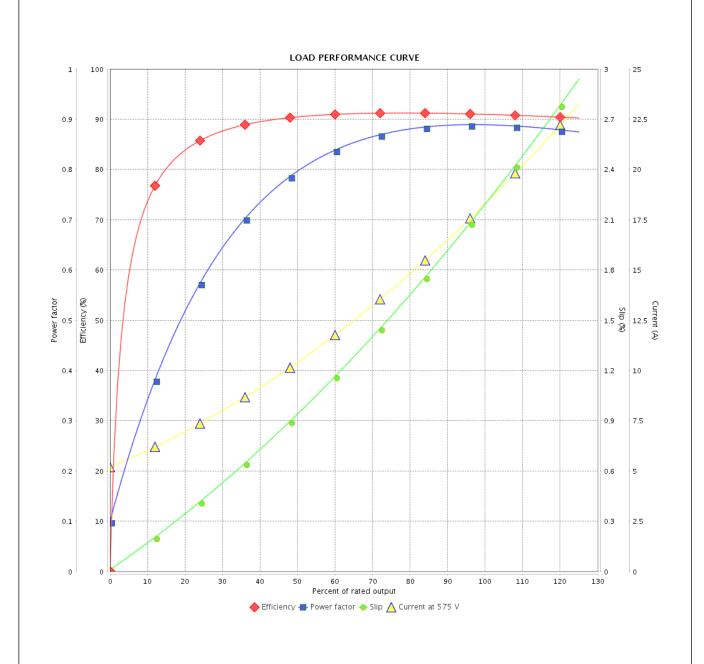


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12712075

Phase

Catalog #: 02036ET3H256JP-W22



Performance		: 575 V 60 Hz 2P					
Rated current	: '	: 18.6 A Moment of		f inertia (J)	: 1.54 sq.ft.lb		
LRC	: 6	6.1	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 2	29.8 ft.lb	Insulation	Insulation class			
Locked rotor torqu	e :2	200 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K		
Rated speed	: 3	3525 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



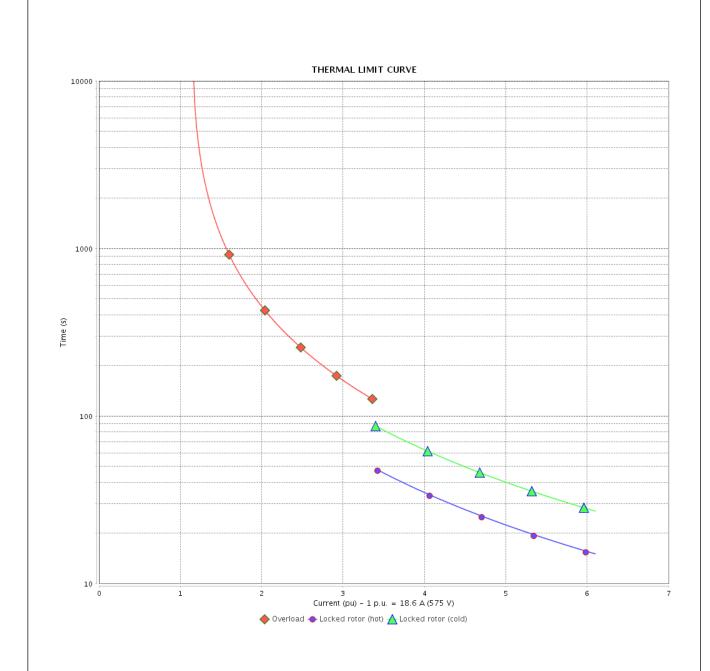
Customer	:					
Product line	: 1	NEMA Premium Efficienc	cy Three-	Product code :	12712075	
	PI	hase		Catalog # :	02036ET3H2	56JP-W22
Performance	· 57	75 V 60 Hz 2P				
Rated current		3.6 A	Moment o	of inertia (J)	: 1.54 sq.ft.lb	
LRC	: 6.	1	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		9.8 ft.lb 90 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 24	40 %	Temperati		: 80 K	
Rated speed	: 35	525 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
				· chamba	20000	24.0
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Б.	4.4/0.4/0.000	1			4.40	

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

14/04/2022

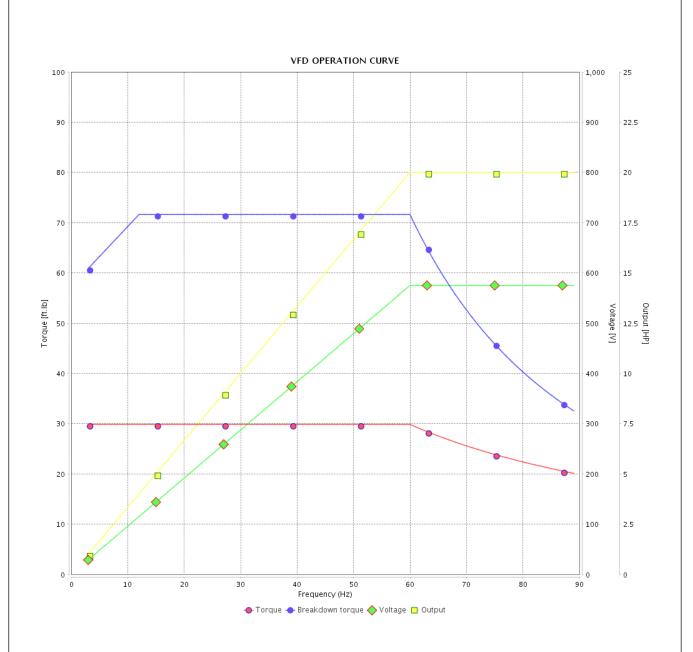
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12712075

Catalog #: 02036ET3H256JP-W22

6/6



Performance : 575 V 60 Hz 2P : 18.6 A Rated current Moment of inertia (J) : 1.54 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 29.8 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

