DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14331207 Catalog #: 02036ET3H256T-SG Frame : 254/6T Locked rotor time : 21s (cold) 12s (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 : 18.2 A Protection degree : IP55 L. R. Amperes : 120 A Cooling method : IC411 - TEFC : 6.6x(Code G) LRC Mounting : F-1 No load current : 5.50 A Rotation¹ : Both (CW and CCW) Rated speed : 3515 rpm Noise level² : 75.0 dB(A) Starting method Slip : 2.36 % : Direct On Line Rated torque : 29.9 ft.lb Approx. weight³ : 211 lb Locked rotor torque : 200 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.22 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 91.0 : 310 lb Efficiency (%) 89.7 90.0 91.0 Max. traction Power Factor 0.88 0.91 0.55 0.81 Max. compression : 521 lb Non drive end Drive end 6309 Z C3 Bearing type 6208 Z C3 V'Ring Sealing Without Bearing Seal Lubrication interval 15797 h 20000 h Lubricant amount 8 g 13 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



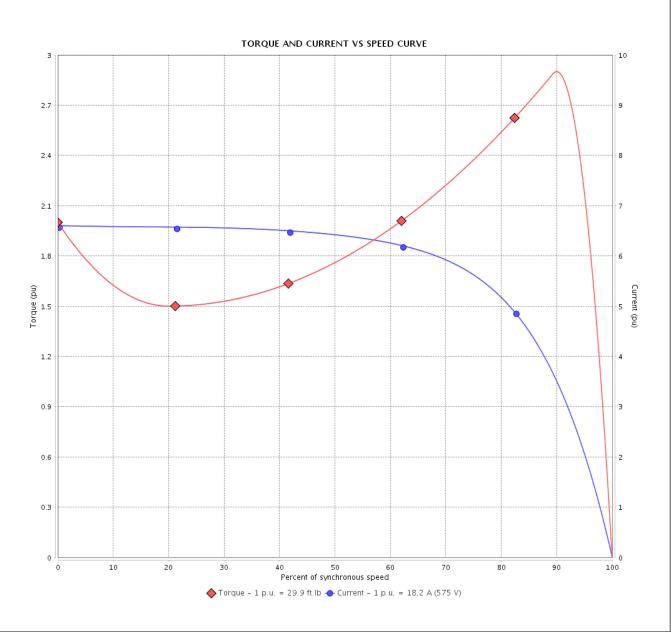
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14331207

Catalog #: 02036ET3H256T-SG



Performance : 575 V 60 Hz 2P Rated current : 18.2 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.9 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



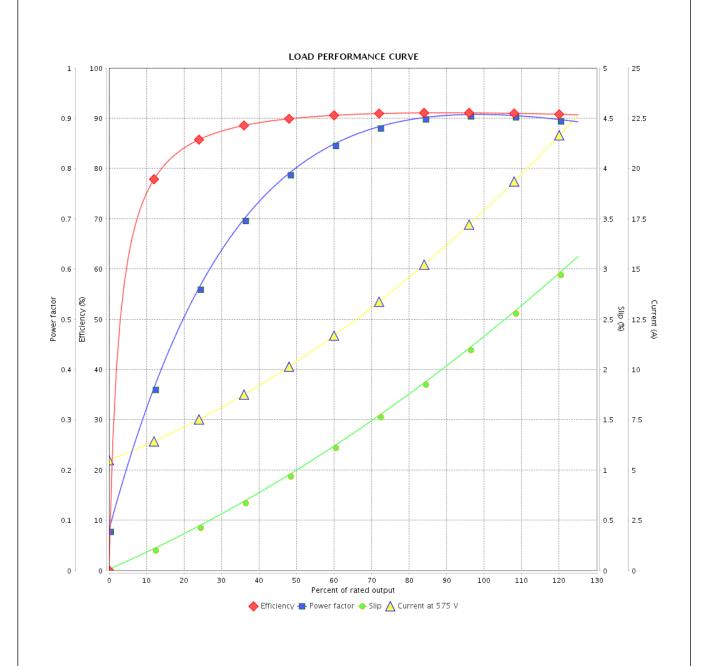
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ET3H256T-SG

14331207



Performance	:	575 V 60 Hz 2P				
Rated current	: .	18.2 A	Moment of inertia (J)		: 1.22 sq.ft.lb	
LRC		6.6	Duty cycle	Duty cycle		
Rated torque	: 2	29.9 ft.lb	Insulation class		:F	
Locked rotor torque	e : 2	200 %	Service factor		: 1.15	
Breakdown torque	: 2	290 %	Temperature rise		: 80 K	
Rated speed	: ;	3515 rpm	Design		: B	
Rev. Changes Summary		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	7			3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



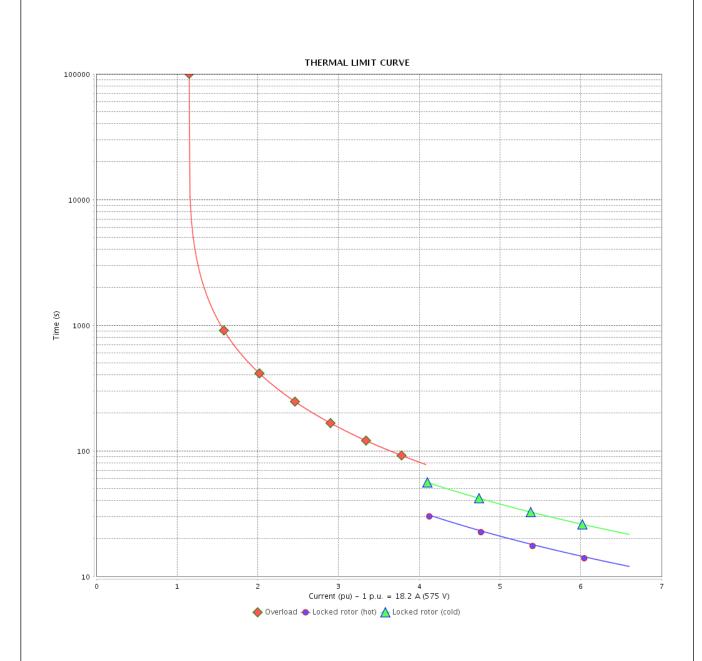
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14331207	
	Pl	hase		Catalog # :	02036ET3H25	56T-SG
Performance	. 5	75 V 60 Hz 2P				
Rated current		3.2 A	Moment o	f inertia (J)	: 1.22 sq.ft.lb	
LRC	: 6.	6	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torq		9.9 ft.lb 90 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	e : 29	90 %	Temperatu		: 80 K	
Rated speed	: 35	515 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
rev.		Changes Summary		renomea	Спескей	Date
Performed by						
Checked by					Page	Revision
- ·	4.4/0.4/0.000	1			1 1	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					1
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



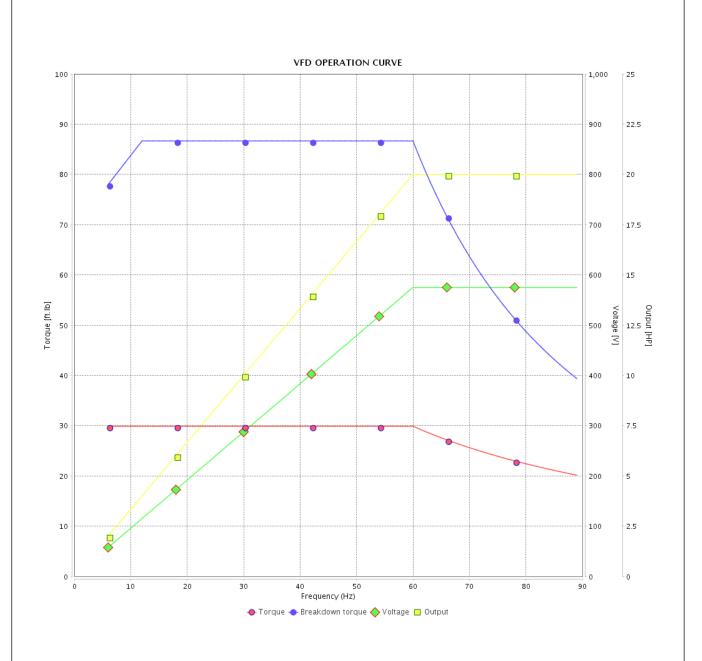
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02036ET3H256T-SG

14331207



Performance : 57		75 V 60 Hz 2P				
Rated current : 18		8.2 A	Moment of	Moment of inertia (J)		
LRC : 6.6		.6	Duty cycle	Duty cycle		
Rated torque : 29		9.9 ft.lb	Insulation	Insulation class		
Locked rotor torque : 20		00 %	Service fa	Service factor		
Breakdown torque		90 %	Temperat	Temperature rise		
Rated speed		515 rpm	Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			6/6	

