DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11723870 Three-Phase Catalog #: 00318ET3E182T-W22 Frame : 182/4T Locked rotor time : 41s (cold) 23s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 7.82/3.91 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 63.3/31.7 A LRC : 8.1x(Code K) Mounting : F-1 No load current : 4.00/2.00 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 8.95 ft.lb Approx. weight³ : 93.3 lb Locked rotor torque : 229 % Breakdown torque : 340 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3401 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 87.5 88.5 : 175 lb Efficiency (%) 89.5 Max. traction : 268 lb Power Factor 0.79 0.61 0.73 Max. compression Drive end Non drive end 6206 ZZ Bearing type 6207 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 8.65A SF 1.15 SFA 9.95A

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



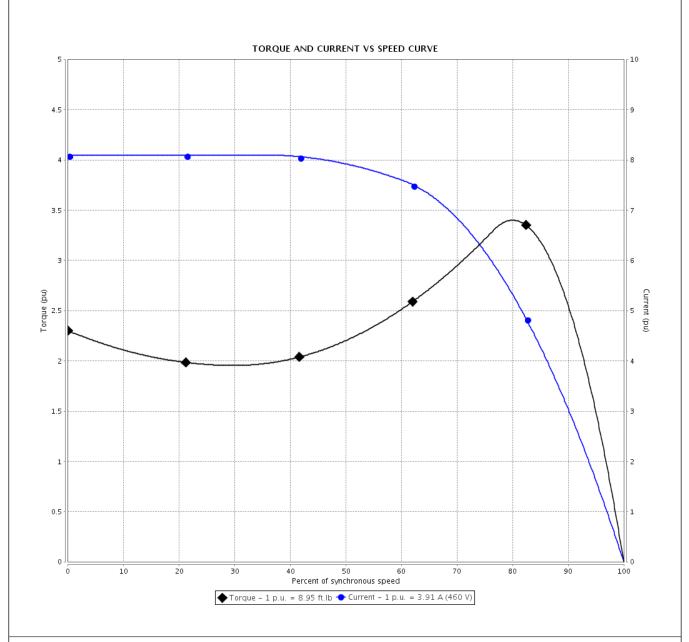
Customer :

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 11723870

Catalog #: 00318ET3E182T-W22



 Performance
 : 230/460 V 60 Hz 4P

 Rated current
 : 7.82/3.91 A
 Moment of inertia (J)
 : 0.3401 sq.ft.lb

 LRC
 : 8.1
 Duty cycle
 : Cont.(S1)

: F : 8.95 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : B : 1760 rpm Design

Locked rotor time : 41s (cold) 23s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



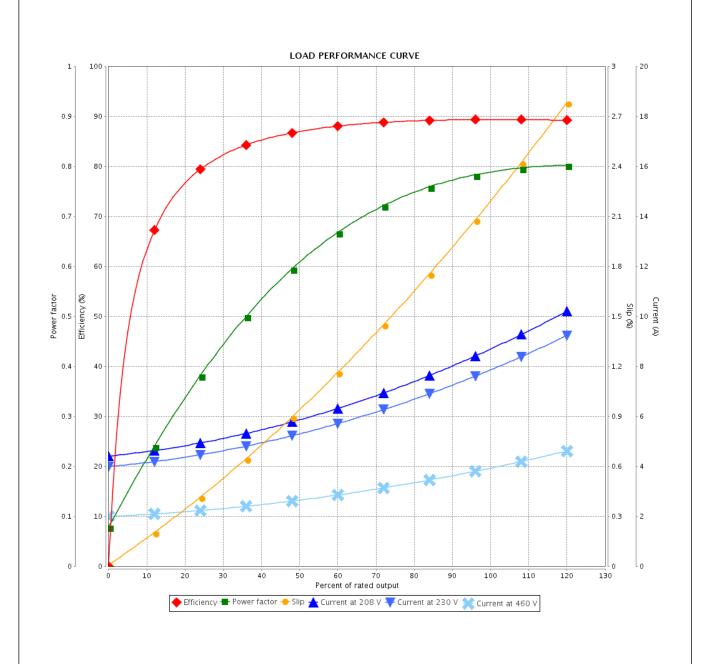
Customer

Product line : W22 NEMA Premium Efficiency F

Three-Phase

Product code: 11723870

Catalog #: 00318ET3E182T-W22



Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 7	: 7.82/3.91 A Moment of ine		inertia (J) : 0.3401 sq.ft.lb		lb		
LRC		3.1	Duty cycle		: Cont.(S1)			
Rated torque	: 8	3.95 ft.lb	Insulation class		: F			
Locked rotor torque	e : 2	229 %	Service factor		: 1.25			
Breakdown torque	: 3			ıre rise	: 80 K			
Rated speed	: '			Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



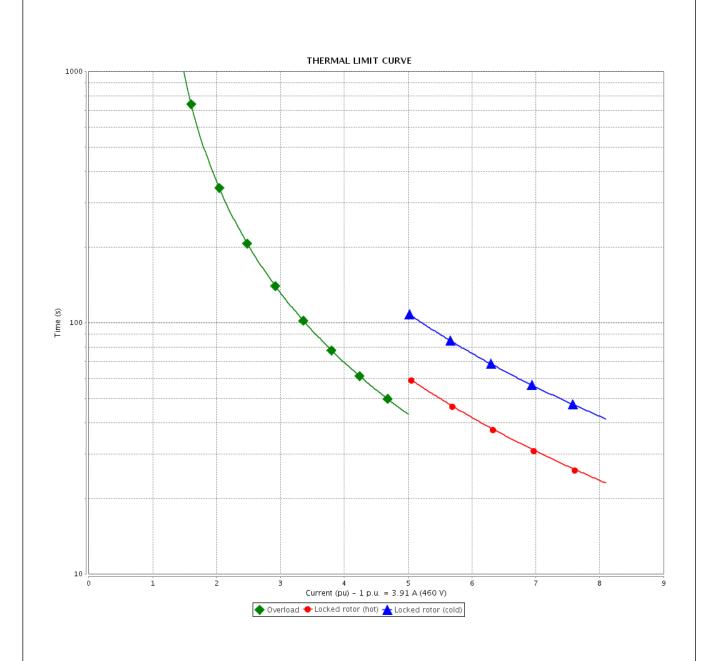
Customer	:					
Product line		N22 NEMA Premium Effici	ency I	Product code :	11723870	
		Three-Phase		Catalog # :	00318ET3E1	82T-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 7.	82/3.91 A	Moment of	f inertia (J)	: 0.3401 sq.ft.l	b
LRC Rated torque	: 8. · 8	1 95 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 22	29 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		10 % 760 rpm	Temperatu	ıre rise	: 80 K : B	
	. 1	760 rpm	Design		. u	
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



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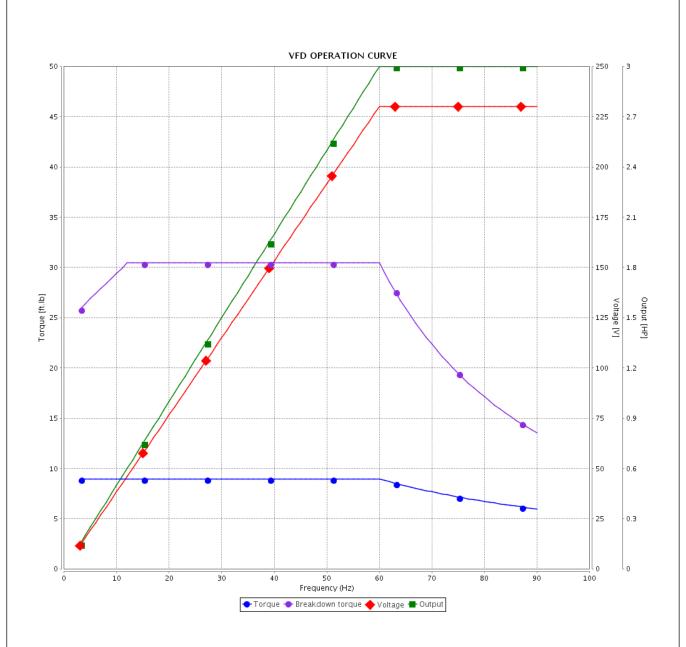
30/01/2021

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723870

Catalog #: 00318ET3E182T-W22



Performance : 230/460 V 60 Hz 4P : 7.82/3.91 A Rated current Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 Insulation class : 8.95 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

