DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11737919 Catalog #: 00218ET3H145TC-W22 Frame : 143/5TC Locked rotor time : 23s (cold) 13s (hot) Output : 2 HP (1.5 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 : 2.21 A Protection degree : IP55 L. R. Amperes : 18.3 A Cooling method : IC411 - TEFC LRC : 8.3x(Code L) Mounting : F-1 No load current : 1.30 A Rotation¹ : Both (CW and CCW) Rated speed : 1750 rpm Noise level² : 51.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 6.00 ft.lb Approx. weight³ : 52.2 lb Locked rotor torque : 270 % Breakdown torque : 320 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1561 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 86.5 86.5 Efficiency (%) 85.2 Max. traction : 141 lb Power Factor 0.57 0.70 0.79 : 193 lb 0.32 Max. compression Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ V'Ring Sealing V'Ring Lubrication interval Lubricant amount 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	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



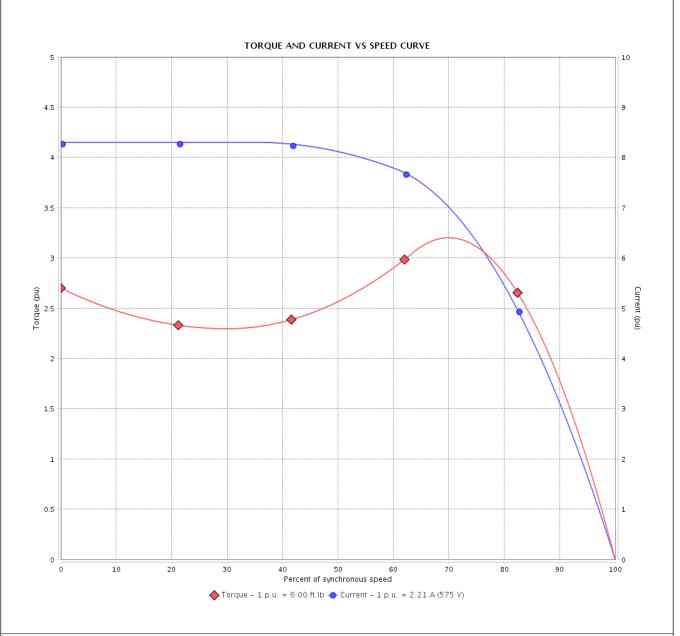
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11737919

Catalog #: 00218ET3H145TC-W22



Performance : 575 V 60 Hz 4P Rated current : 2.21 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



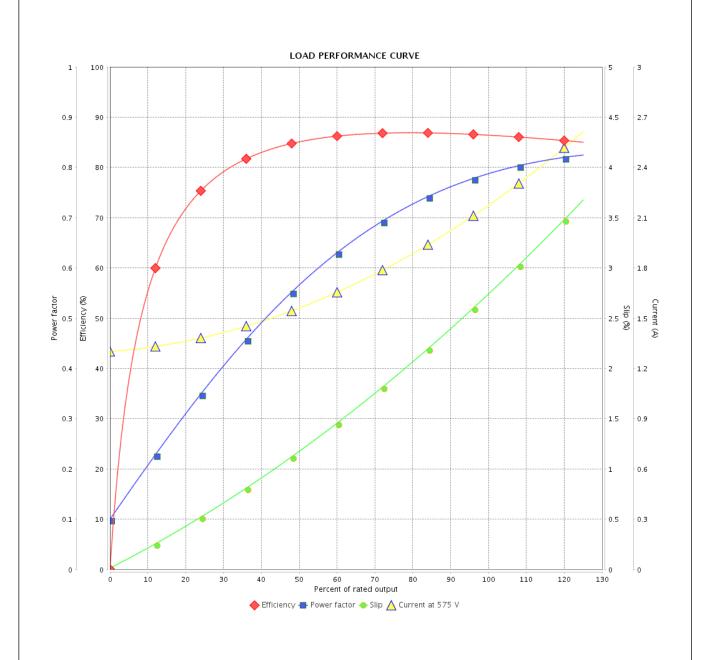
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11737919

Phase

Catalog #: 00218ET3H145TC-W22

3/6



Performance	: 575 V 60 Hz 4P				
Rated current	: 2.21 A	Moment of inertia (J)		: 0.1561 sq.ft.lb	
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 6.00 ft.lb	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Locked rotor torque	: 270 %				
Breakdown torque	: 320 %				
Rated speed	: 1750 rpm	Design	: B		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



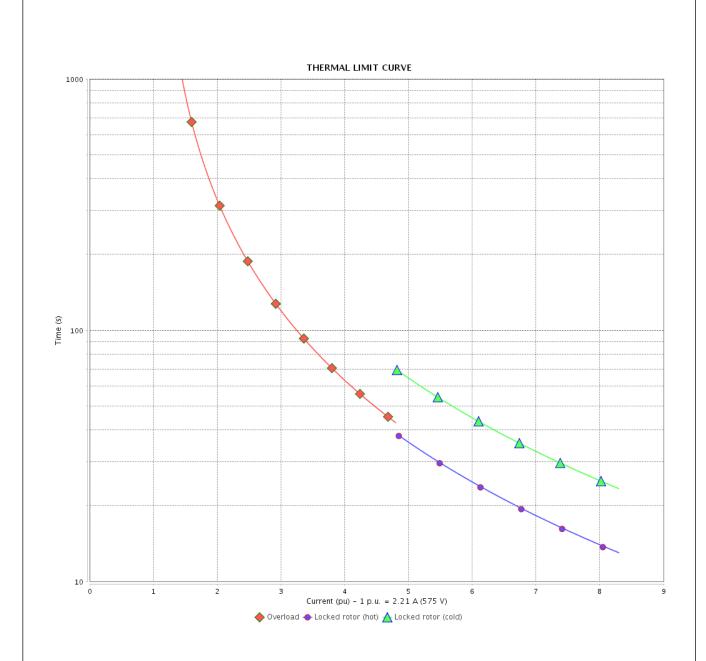
Customer	:			·	
Product line	: NEMA Premium Efficiency	Three-	Product code :	11737919	
	Phase		Catalog # :	00218ET3H1	45TC-\M22
			Catalog # .	00216E13H1	4510-442
Performance	: 575 V 60 Hz 4P	Г			
Rated current LRC	: 2.21 A : 8.3	Moment o Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque	: 6.00 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 % : 320 %	Service fa		: 1.25 : 80 K	
Breakdown torque Rated speed	: 320 % : 1750 rpm	Temperatu Design	116 119 6	: 80 K : B	
Heating constant		-			
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

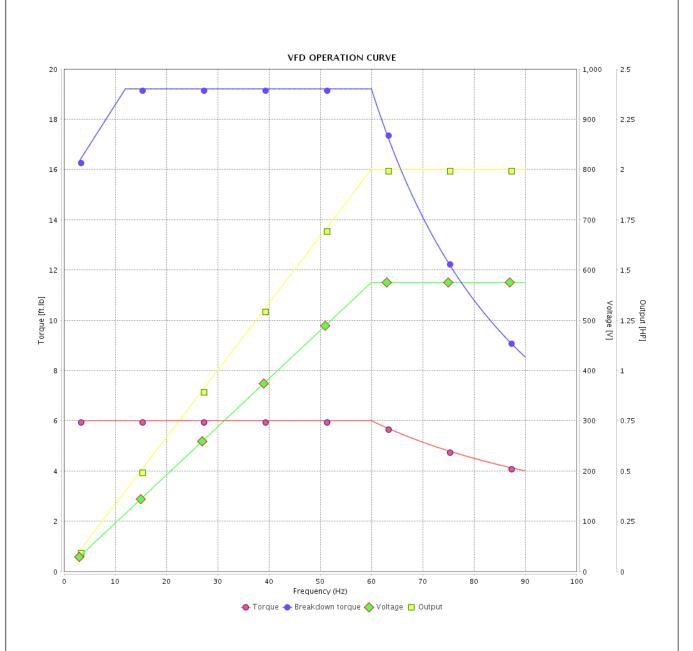
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11737919

Catalog #: 00218ET3H145TC-W22

6/6



Performance	: 575 V 60 Hz 4P	: 575 V 60 Hz 4P							
Rated current	: 2.21 A Moment of		of inertia (J)	: 0.1561 sq.ft.lb					
LRC	: 8.3	Duty cycle		: Cont.(S1)					
Rated torque	: 6.00 ft.lb	Insulation class		: F					
Locked rotor torque	e : 270 %	Service factor		: 1.25					
Breakdown torque	: 320 %	Temperature rise		: 80 K					
Rated speed	: 1750 rpm	Design	Design						
Rev.	Changes Summary		Performed	Checked	Date				
Performed by									
Checked by				Page	Revision				

13/04/2022

Date

