DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11458012 Catalog #: 00236ET3H145T-W22 Frame : 143/5T Locked rotor time : 30s (cold) 17s (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 : 2.05 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 18.2 A LRC : 8.9x(Code L) Mounting : F-1 No load current : 0.720 A Rotation¹ : Both (CW and CCW) Rated speed : 3475 rpm Noise level² : 68.0 dB(A) Starting method Slip : 3.47 % : Direct On Line Rated torque : 3.02 ft.lb Approx. weight³ : 49.5 lb Locked rotor torque : 350 % Breakdown torque : 380 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0605 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 85.5 : 75 lb Efficiency (%) 82.0 82.5 Max. traction Power Factor 0.80 0.86 : 124 lb 0.47 0.71 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



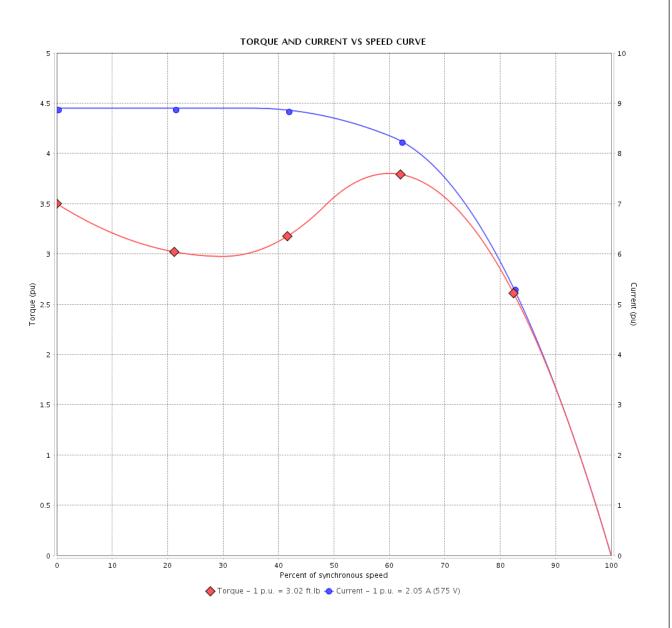
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458012

Catalog #: 00236ET3H145T-W22



Performance : 575 V 60 Hz 2P Rated current : 2.05 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.02 ft.lb Service factor Locked rotor torque : 350 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B

Locked rotor time : 30s (cold) 17s (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

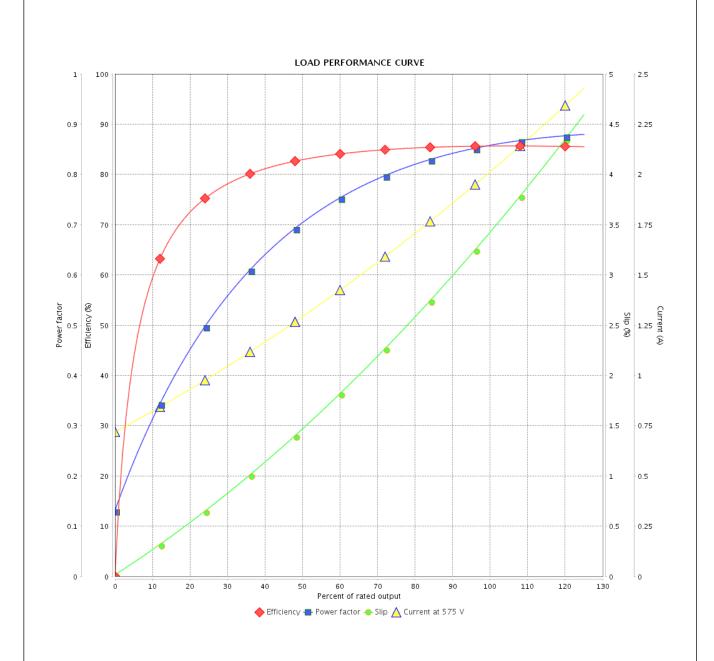


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458012

Phase

Catalog #: 00236ET3H145T-W22



Performance	:	575 V 60 Hz 2P				
Rated current	:	.05 A Moment of inertia (J)		f inertia (J)	: 0.0605 sq.ft.lb	
LRC		8.9	Duty cycle		: Cont.(S1)	
Rated torque		3.02 ft.lb	Insulation class		:F	
Locked rotor torque		350 %	Service factor		: 1.25	
Breakdown torque		380 %	Temperature rise		: 80 K	
Rated speed	:	3475 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



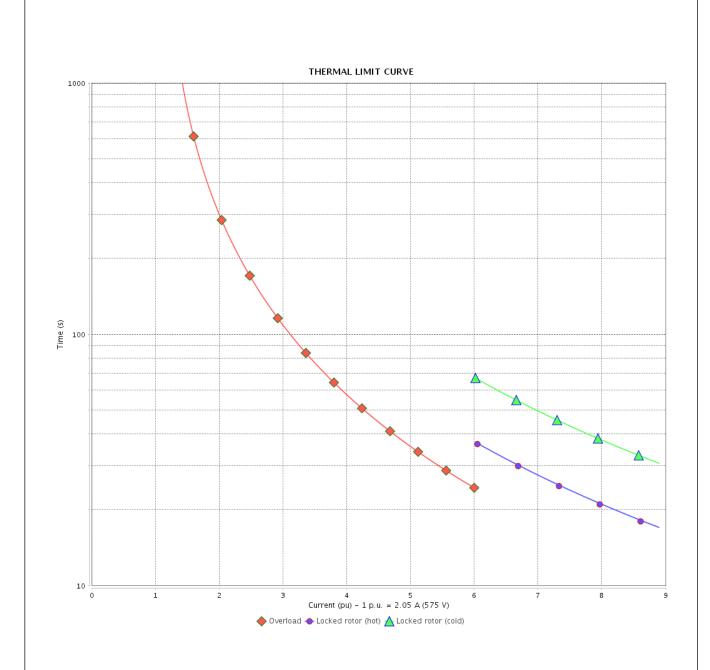
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11458012	
				Catalog # :	00236ET3H1	45T-W22
Performance		: 575 V 60 Hz 2P	N 4	6	0.0005 (1.1	1
Rated current LRC		: 2.05 A : 8.9	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	υ
Rated torque		: 3.02 ft.lb : 350 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 380 %	Temperat		: 80 K	
Rated speed		: 3475 rpm	Design		: B	
Heating constan						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			,		1
Checked by		1		Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

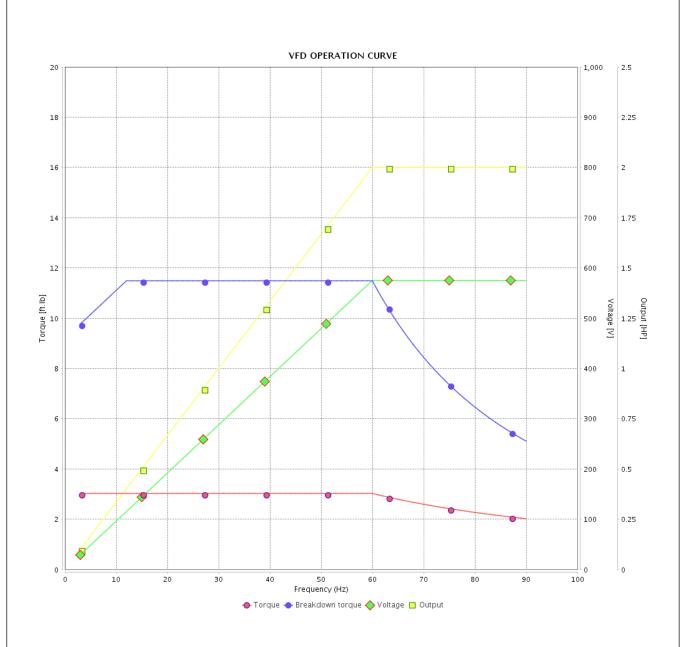


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11458012

Phase

Catalog #: 00236ET3H145T-W22



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.05 A : 8.9 : 3.02 ft.lb : 350 % : 380 % : 3475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev. Changes Summary		1	Performed	Checked	Date
Performed by Checked by				Page	Revision

6/6

13/04/2022

Date

