DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12799394 Catalog #: 00312OT3H213T-SG Frame : 213/5T Locked rotor time : 70s (cold) 39s (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 : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 3.33 A : IC01 - ODP L. R. Amperes : 19.6 A Mounting : F-1 : Both (CW and CCW) LRC : 5.9x(Code H) Rotation¹ No load current : 1.83 A Noise level² : 55.0 dB(A) Rated speed : 1175 rpm Starting method : Direct On Line Slip : 2.08 % Approx. weight³ : 98.3 lb Rated torque : 13.4 ft.lb Locked rotor torque : 210 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.8104 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 86.5 87.5 88.5 : 147 lb Efficiency (%) 85.4 Max. traction Power Factor 0.33 0.56 0.68 : 245 lb 0.75 Max. compression Drive end Non drive end

Bearing type : 6208 ZZ 6206 ZZ
Sealing : Without Bearing Seal Without Bearing Seal
Lubrication interval : - -

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	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



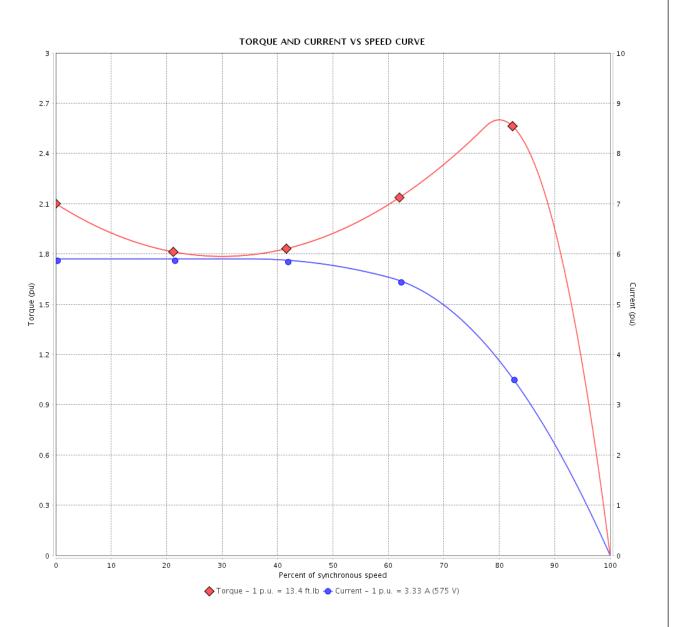
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00312OT3H213T-SG

12799394



Performance : 575 V 60 Hz 6P Rated current : 3.33 A Moment of inertia (J) : 0.8104 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 13.4 ft.lb Service factor Locked rotor torque : 210 % : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 70s (cold) 39s (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

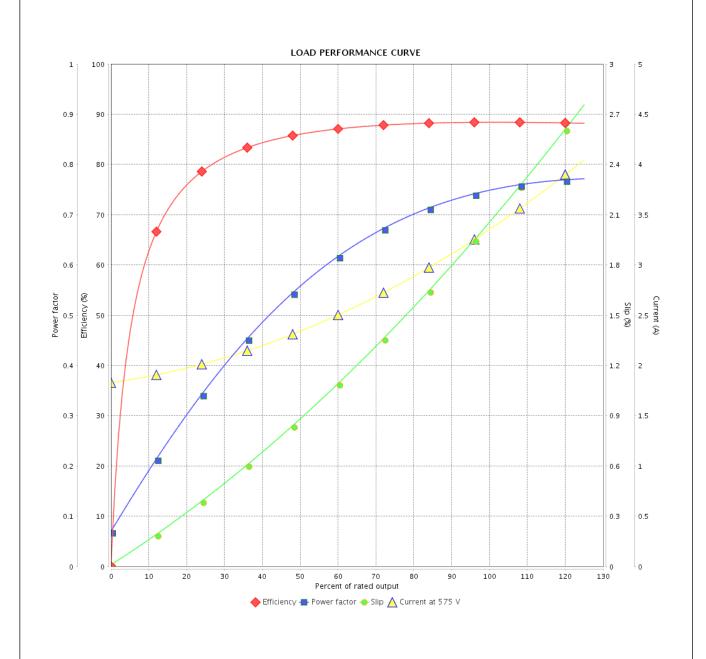


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12799394

Phase

Catalog #: 00312OT3H213T-SG



Performance		: 575 V 60 Hz 6P						
Rated current		.33 A Moment of inertia (J)		: 0.8104 sq.ft.lb				
LRC :		5.9	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque	: 1	3.4 ft.lb	Insulation	Insulation class		: F		
Locked rotor torque	e : 2	210 %	Service fa	Service factor		: 1.15		
Breakdown torque	: 2	260 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 1	175 rpm	Design		: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	14/04/2022				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



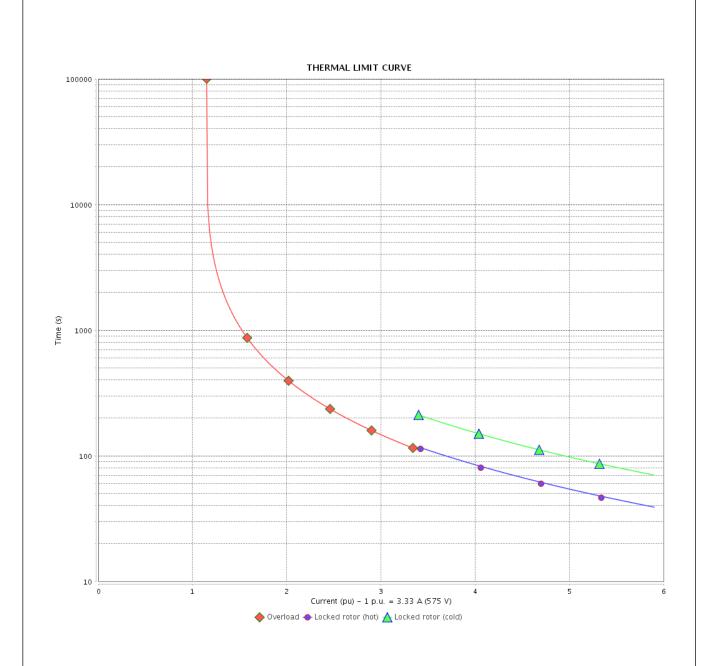
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12799394 00312OT3H	213T-SG
Performance	: 575 V 60 Hz 6P				
Rated current LRC	: 3.33 A : 5.9 : 13.4 ft.lb	Duty cycle		: 0.8104 sq.ft. : Cont.(S1) : F	lb
Rated torque Locked rotor torque	: 210 %	Insulation Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 260 % : 1175 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by		l			
Checked by	2			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	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12799394

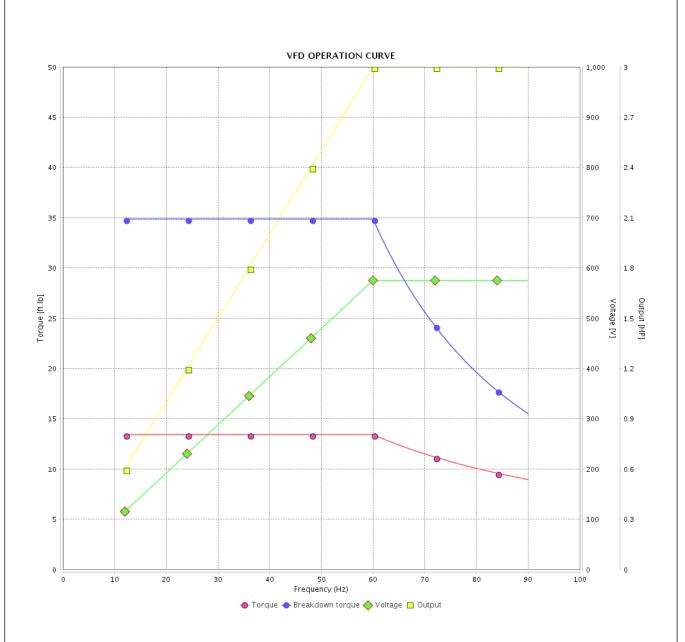
Phase

Catalog #: 00312OT3H213T-SG

Page

6/6

Revision



Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.33 A : 5.9 : 13.4 ft.lb : 210 % : 260 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.8104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

