DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12881323 Catalog #: 01518OT3V254T-S Frame : 254/6T Locked rotor time : 30s (cold) 17s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Cooling method Rated current : 42.8/21.4 A : IC01 - ODP L. R. Amperes : 287/143 A Mounting : F-1 : Both (CW and CCW) LRC : 6.7x(Code H) Rotation¹ No load current : 21.9/10.9 A Noise level² : 64.0 dB(A) Rated speed : 1775 rpm Starting method : Direct On Line : 188 lb Slip : 1.39 % Approx. weight³ Rated torque : 44.4 ft.lb Locked rotor torque : 240 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.82 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 Efficiency (%) 91.0 91.7 92.4 Max. traction : 544 lb Power Factor 0.80 0.36 0.62 0.73 Max. compression : 733 lb Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval 20000 h 20000 h Lubricant amount 13 g 8 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	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



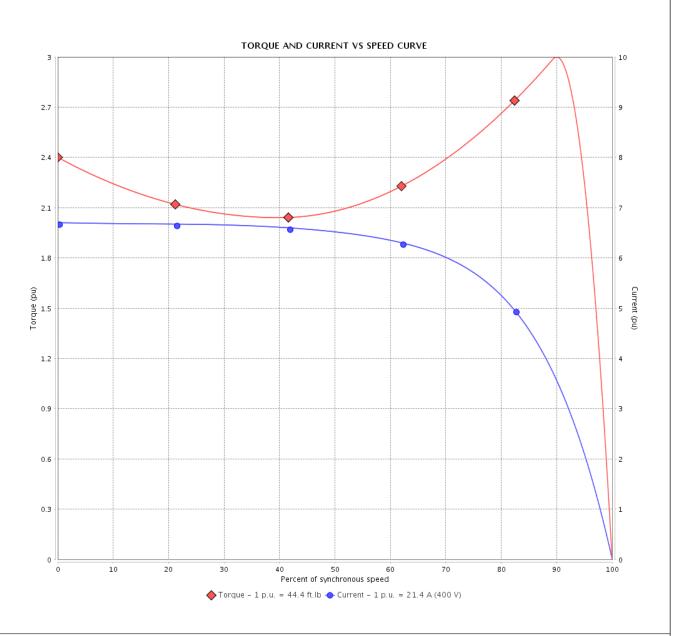
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12881323

Catalog #: 01518OT3V254T-S



Performance : 200/400 V 60 Hz 4P Rated current : 42.8/21.4 A Moment of inertia (J) : 1.82 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1775 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

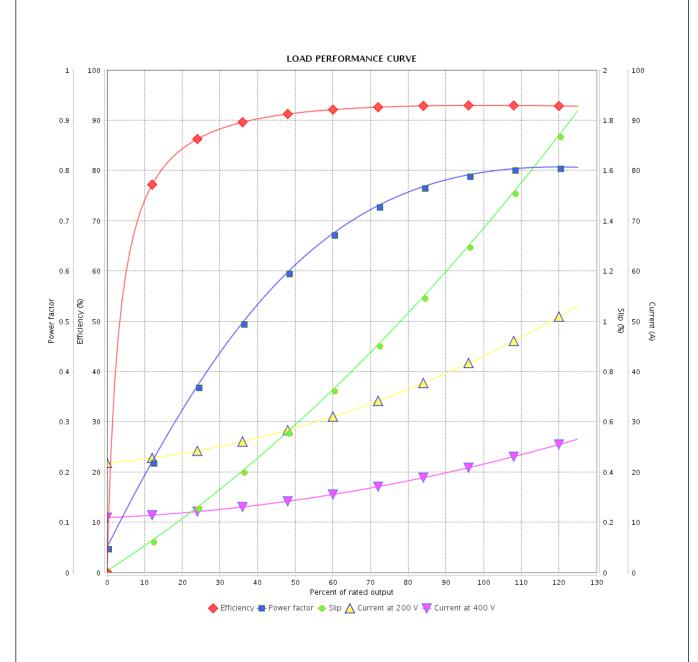


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12881323

Phase

Catalog #: 01518OT3V254T-S



Performance		: 200/400 V 60 Hz 4P					
Rated current :		2.8/21.4 A Moment of inertia (J)		: 1.82 sq.ft.lb			
LRC : 6		.7	Duty cycle		: Cont.(S1)		
Rated torque :		4.4 ft.lb	Insulation class		: F		
Locked rotor torque		40 %	Service factor		: 1.15		
Breakdown torque	: 3	: 300 % : 1775 rpm		Temperature rise Design			
Rated speed	: 1						
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
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Date	13/04/2022				3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



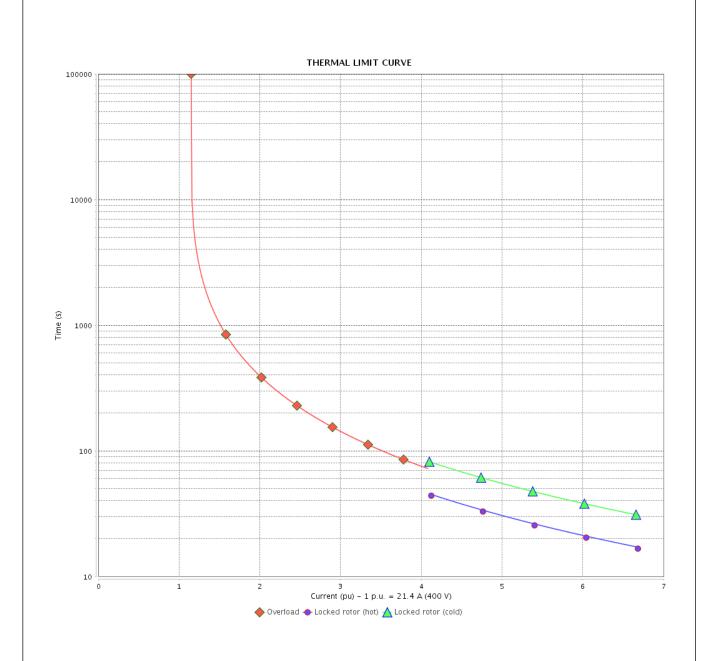
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Product line	: NEMA Premium Efficienc Phase	y Three-	Product code :	12881323	
	Filase		Catalog # :	01518OT3V2	54T-S
Porformanco	: 200/400 V 60 Hz 4P				
Performance Rated current	: 42.8/21.4 A	Moment o	f inertia (J)	: 1.82 sq.ft.lb	
LRC Rated torque	: 6.7 : 44.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa		. г : 1.15	
Breakdown torque	: 300 %	Temperati		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Heating constant					
Cooling constant					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

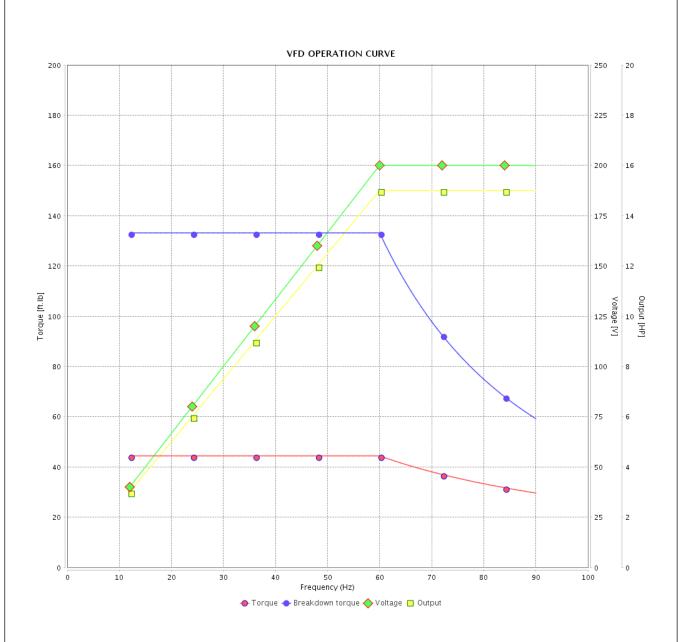
13/04/2022

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12881323

Catalog #: 01518OT3V254T-S



Performance : 200/400 V 60 Hz 4P Rated current : 42.8/21.4 A Moment of inertia (J) : 1.82 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision

Page 6 / 6

