DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12881325 Catalog #: 02018OT3V256T-S Frame : 254/6T Locked rotor time : 27s (cold) 15s (hot) Output : 20 HP (15 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 : 57.5/28.8 A : IC01 - ODP L. R. Amperes : 362/181 A Mounting : F-1 : Both (CW and CCW) LRC : 6.3x(Code G) Rotation¹ No load current : 26.3/13.1 A Noise level² : 64.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line Slip : 1.67 % Approx. weight³ : 213 lb Rated torque : 59.3 ft.lb Locked rotor torque : 240 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.23 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 93.0 : 719 lb Efficiency (%) 91.7 92.4 92.4 Max. traction Power Factor 0.74 0.81 : 932 lb 0.38 0.63 Max. compression Non drive end Drive end

Bearing type : 6309 Z C3 6208 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 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.	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



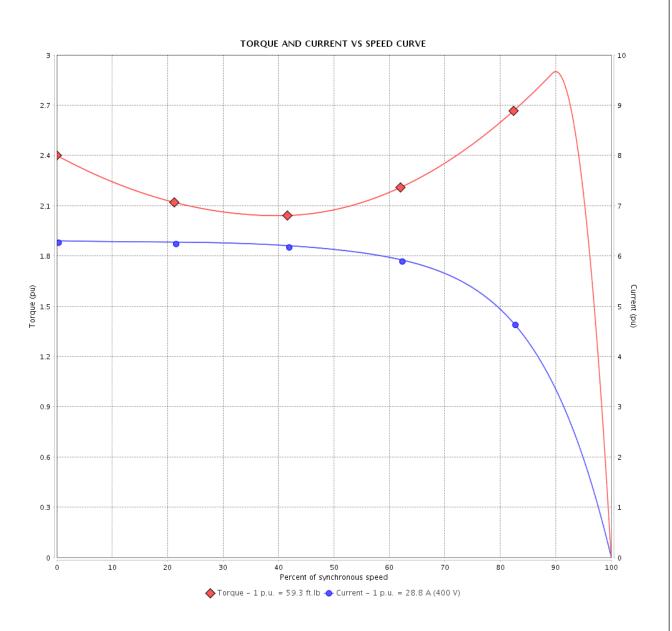
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12881325

Catalog #: 02018OT3V256T-S



Performance : 200/400 V 60 Hz 4P Rated current : 57.5/28.8 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

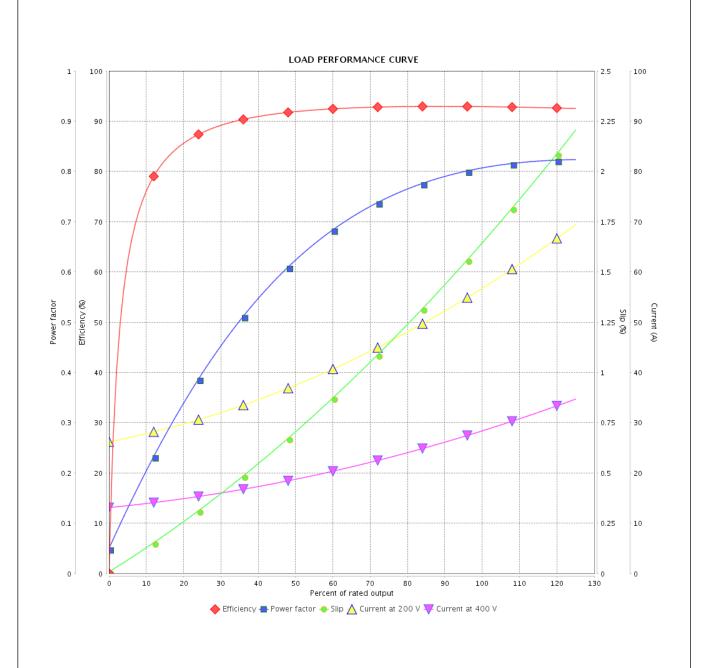
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12881325

Catalog #: 02018OT3V256T-S



Performance	: 20	00/400 V 60 Hz 4P				
Rated current	_			of inertia (J)	: 2.23 sq.ft.lb : Cont.(S1)	
LRC	: 6.	.3	Duty cycle	Duty cycle		
Rated torque	: 59	9.3 ft.lb	Insulation class		: F	
Locked rotor torqu	ue : 24			ictor	: 1.15	
Breakdown torque	e : 29			Temperature rise Design		
Rated speed	: 1770 rpm		Design			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



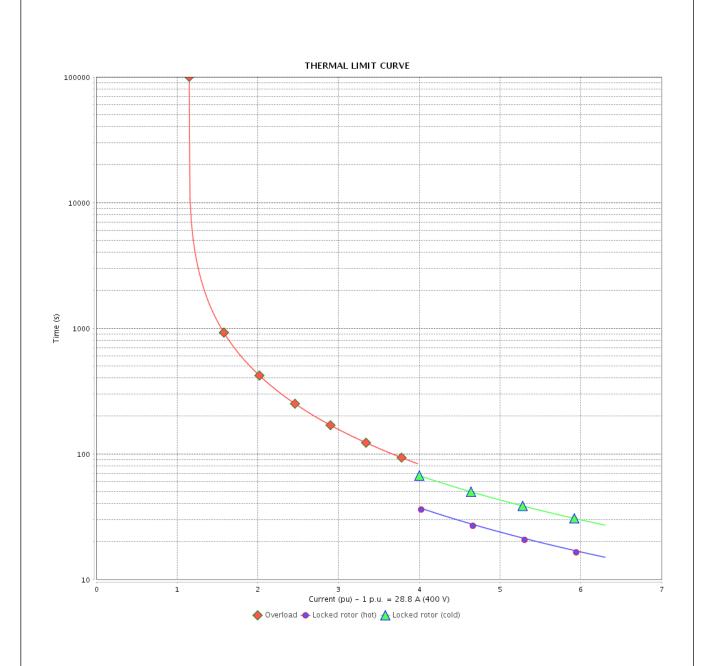
Customer	:					
Customer	•					
Product line		NEMA Premium Efficiency nase	Three-	Product code :	12881325	
	PI	lase	(Catalog # :	02018OT3V2	56T-S
Performance	: 20	00/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		7.5/28.8 A 3 9.3 ft.lb 40 % 90 % 770 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
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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

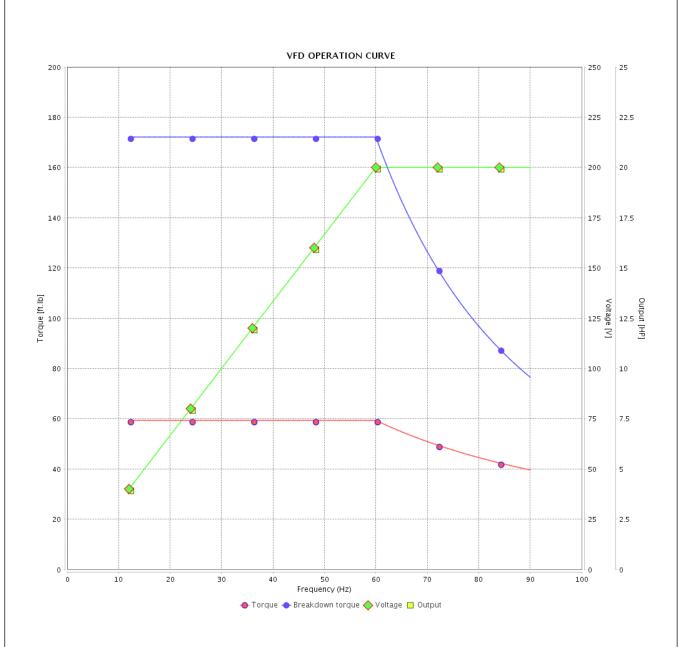
14/04/2022

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12881325

Catalog #: 02018OT3V256T-S



Performance		: 200/400 V 60 H	Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 57.5/28.8 A Moment of inertial : 6.3 Duty cycle : 59.3 ft.lb Insulation class : 240 % Service factor : 290 % Temperature rise : 1770 rpm Design		class ctor	: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.		Changes Summary			Performed	Checked	Date
Performed by							

Page

6/6

Revision

