DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:			
Product line		: NEMA P Phase	remium Efficienc	cy Three- Product code : Catalog # :	12712282 04018ET3H324JM-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 324/6JM : 40 HP (30 kW) : 4 : 60 Hz : 575 V : 37.7 A : 230 A : 6.1x(Code G) : 13.6 A : 1770 rpm : 1.67 % : 119 ft.lb : 229 % : 240 % : F : 1.25 : 9.16 sq.ft.lb : B		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 36s (cold) 20s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 66.0 dB(A) : Direct On Line : 576 lb
Output Efficiency (%)	50% 93.6	75% 94.1	100% 94.1	Foundation loads Max. traction	: 805 lb
Power Factor	0.72	0.80	0.85	Max. compression	: 1381 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : :	Drive end 6312 C3 V'Ring 20000 h 21 g	Non drive end 6212 C3 V'Ring 20000 h 13 g Mobil Polyrex EM	<u>I</u>
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	12/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

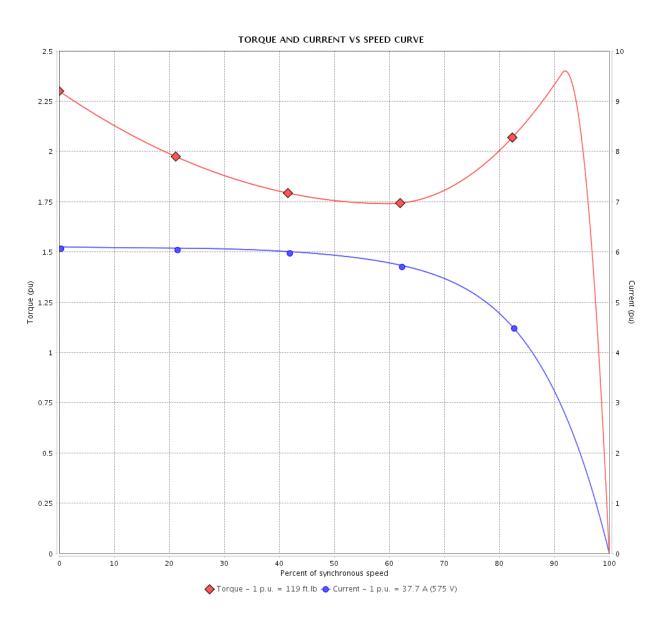


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12712282

Phase

Catalog #: 04018ET3H324JM-W22



Performance	: 575 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.7 A : 6.1 : 119 ft.lb : 229 % : 240 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 36s (cold) 20s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



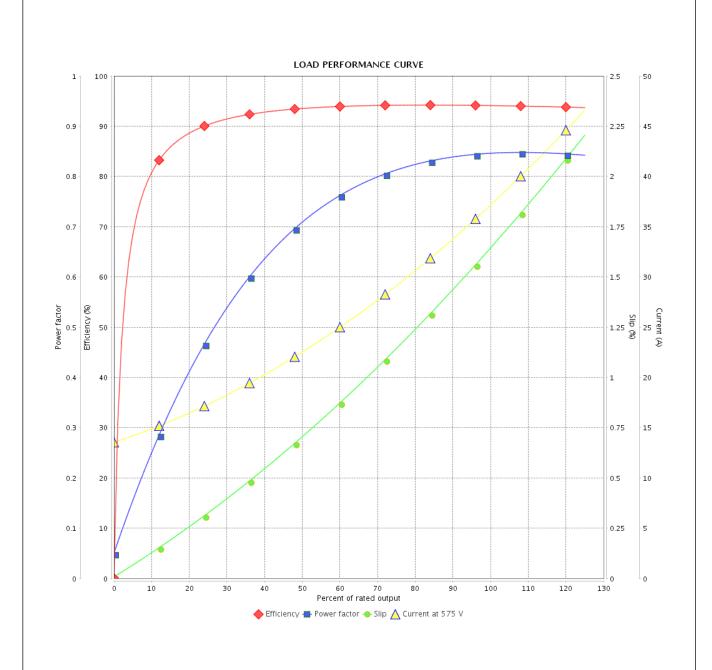
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12712282

Phase

Catalog #: 04018ET3H324JM-W22

3/6



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.7 A : 6.1 : 119 ft.lb : 229 % : 240 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
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12/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



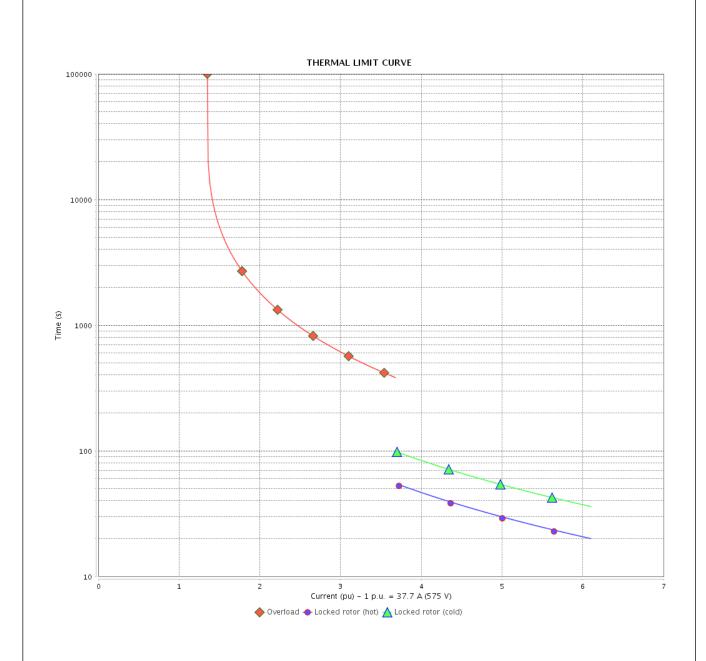
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Product line	: NEMA Premium Effic	iencv Three-	Product code :	12712282	
	Phase				0.4.18.4.18.00
			Catalog # :	04018ET3H3	24JM-W22
Performance	: 575 V 60 Hz 4P				
Rated current	: 37.7 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6.1 : 119 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 240 % : 1770 rpm	Temperat	ure rise	: 80 K : B	
	: 1770 rpm	Design		. Б	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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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	12/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

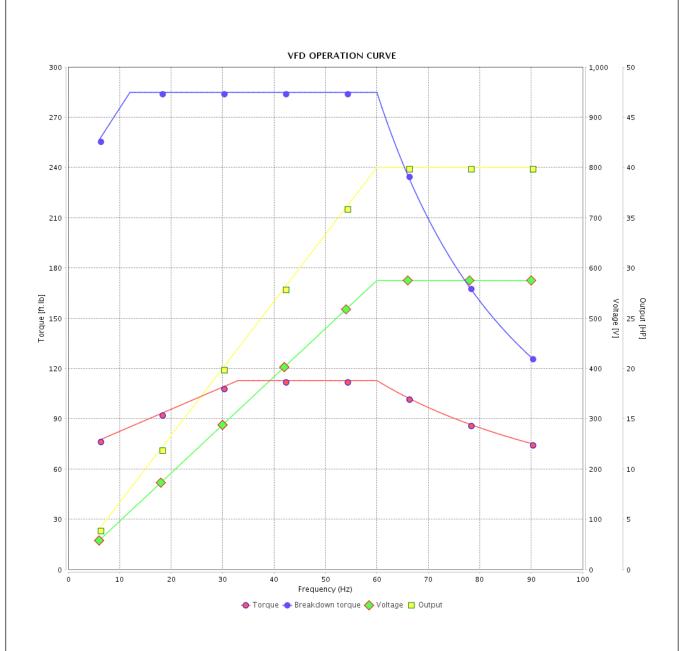
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712282

Catalog #: 04018ET3H324JM-W22

6/6



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Performance	: 57	: 575 V 60 Hz 4P						
Rated current		7.7 A	Moment o	Moment of inertia (J)				
LRC : 6		.1	Duty cycle	Duty cycle				
Rated torque :		19 ft.lb	Insulation	Insulation class				
•		29 %	Service fa	Service factor				
Breakdown torqu	ie : 24	40 %	Temperati	Temperature rise				
Rated speed	: 17	770 rpm	Design	Design				
Rev.	Rev. Changes Summary		/	Performed	Checked	Date		
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12/04/2022

Date

