DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:						
Product line		: NEMA Premium Efficiency T Phase			Three- Product code : Catalog # :		11570361 00518ET3H184JM-W22	
Frame Output Poles Frequency Rated voltage Rated current		: 182/4JM : 5 HP (3.7 kW) : 4 : 60 Hz : 575 V : 5.16 A : 38.7 A			Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method		: 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC	
L. R. Amperes LRC No load current Rated speed Slip Rated torque		: 2.56 : 175 : 2.50	: 7.5x(Code J) : 2.56 A : 1755 rpm : 2.50 % : 15.0 ft.lb		Mount Rotation Noise Startin	ting on¹	: F-1 : Both (CW and CCW) : 56.0 dB(A) : Direct On Line : 102 lb	
Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 229 : 320 : F : 1.25 : 0.40 : B	%					
Output	25%	50%	75%	100%	Foundat	tion loads		
Efficiency (%) Power Factor	88.2 0.37	88.5 0.62	89.5 0.74	89.5 0.80	Max. tra Max. co	ction mpression	: 255 lb : 357 lb	
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		Drive end : 6307 ZZ : V'Ring : - : -		Non drive end 6206 ZZ V'Ring Mobil Polyrex EM		<u>d</u>		
Notes								

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.

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TORQUE AND CURRENT VS SPEED CURVE

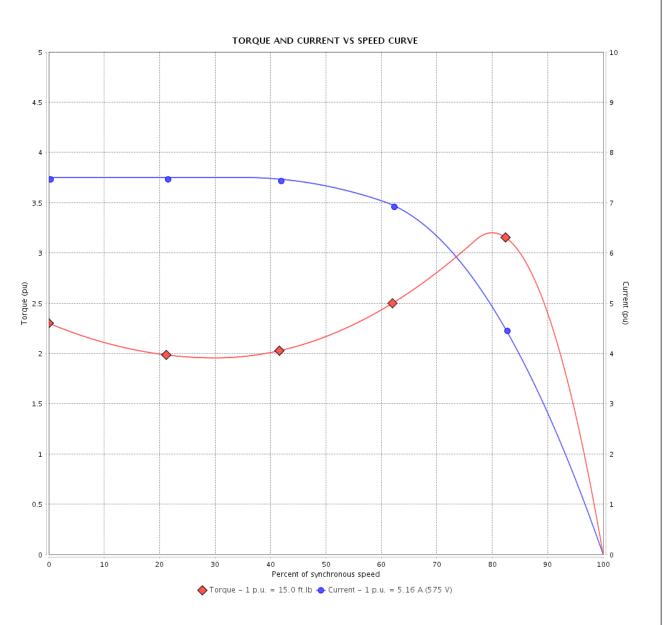
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11570361

Catalog #: 00518ET3H184JM-W22



Performance : 575 V 60 Hz 4P Rated current : 5.16 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 15.0 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

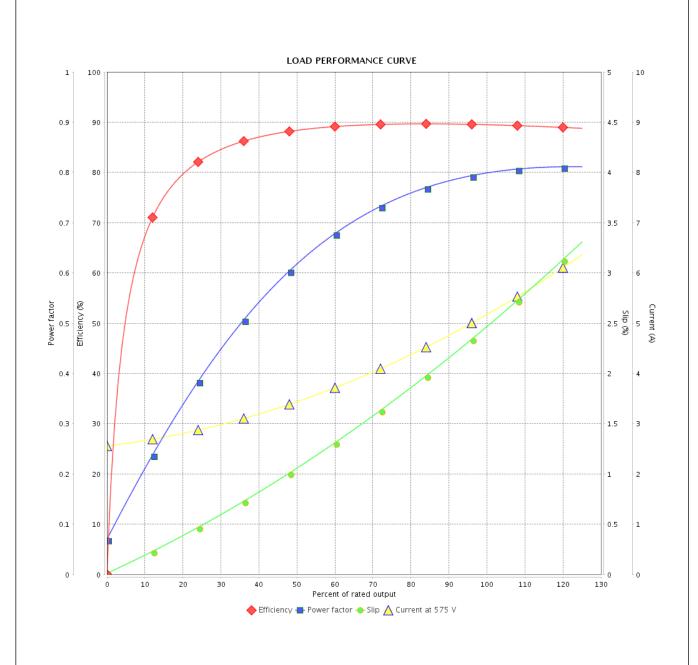
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00518ET3H184JM-W22

11570361

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Performance	: 575 V 60 Hz 4P				
Rated current	: 5.16 A	Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 15.0 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 229 %	Service factor Temperature rise Design		: 1.25 : 80 K : B	
Breakdown torque	: 320 %				
Rated speed	: 1755 rpm				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



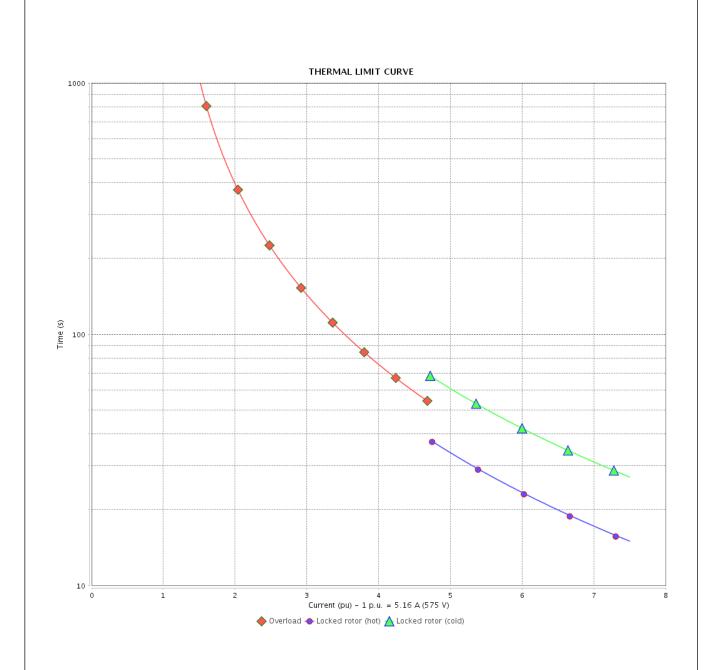
Customer	:			·	
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11570361 00518ET3H1	84JM-W22
Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 575 V 60 H2 4P : 5.16 A : 7.5 : 15.0 ft.lb : 229 % : 320 % : 1755 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4003 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

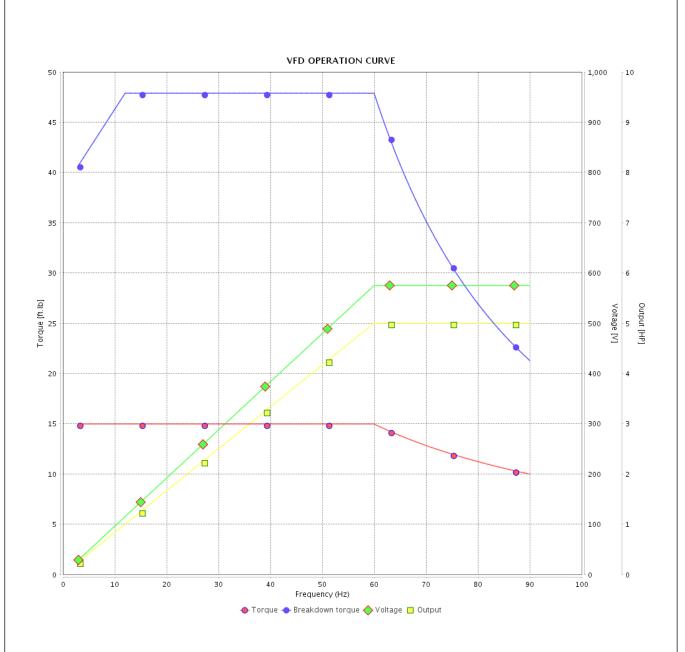
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11570361

Catalog #: 00518ET3H184JM-W22

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Performance		: 575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		16 A 5 5.0 ft.lb 29 % 20 % 755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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