DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12598385 Catalog #: 00118ET3H143JM-W22 Frame : 143/5JM Locked rotor time : 32s (cold) 18s (hot) Output : 1 HP (0.75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 1.18 A Protection degree : IP55 L. R. Amperes : 10.1 A Cooling method : IC411 - TEFC : 8.6x(Code M) LRC Mounting : F-1 No load current : 0.752 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 51.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 2.98 ft.lb Approx. weight³ : 48.5 lb Locked rotor torque : 290 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1172 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 80.0 84.0 85.5 : 66 lb Efficiency (%) 78.4 Max. traction Power Factor 0.31 0.55 0.68 0.75 : 115 lb Max. compression Drive end Non drive end Bearing type 6206 ZZ 6204 ZZ Sealing V'Ring V'Ring 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



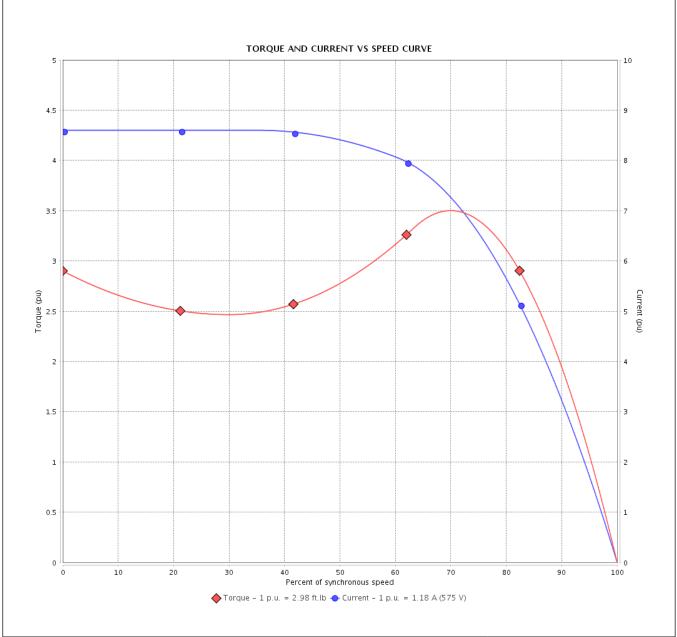
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118ET3H143JM-W22

12598385



Performance : 575 V 60 Hz 4P Rated current : 1.18 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.98 ft.lb : F Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



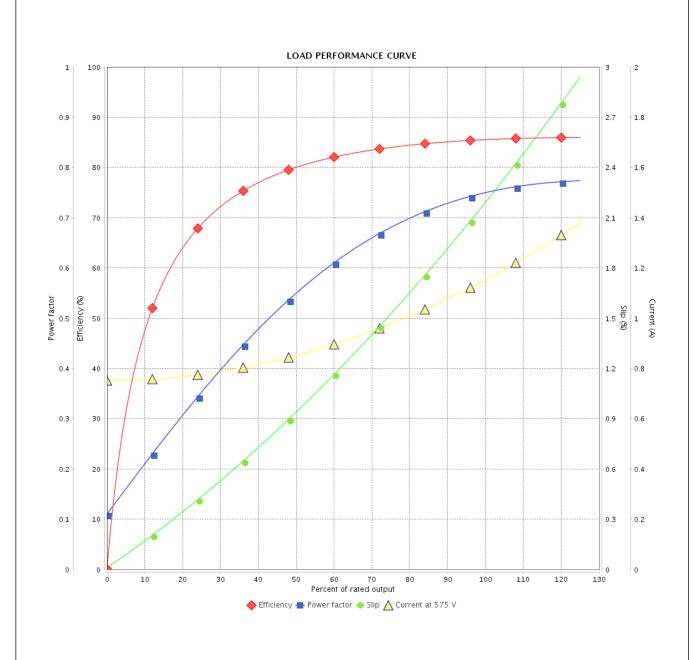
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598385

Phase

Catalog #: 00118ET3H143JM-W22

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.18 A : 8.6 : 2.98 ft.lb : 290 % : 350 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1172 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



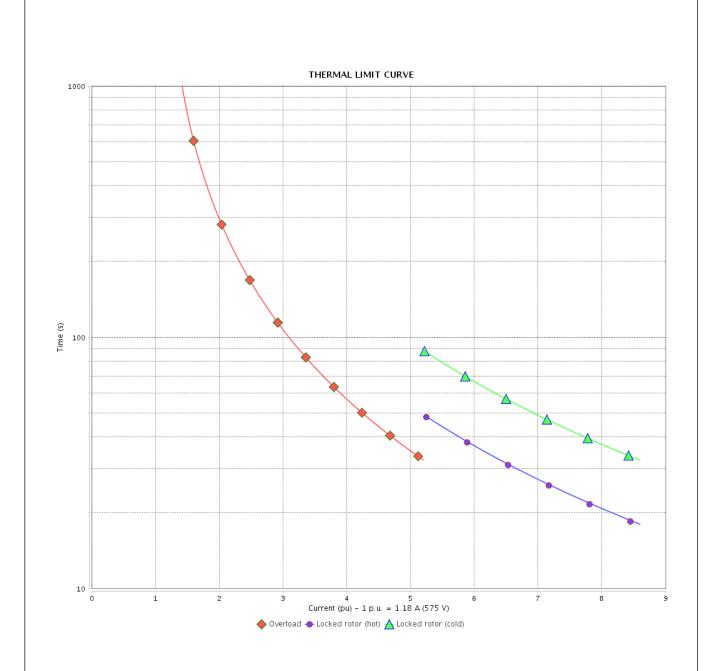
Customer	:	:					
Product line		: NEMA Premium Efficiency Thre		Product code :	12598385		
1 Toddot IIIIc		Phase					
				Catalog # :	00118ET3H1	43JM-W22	
Performance	: :	575 V 60 Hz 4P					
Rated current				f inertia (J)	: 0.1172 sq.ft.lb		
LRC	: 8	: 8.6 Duty cy		;	: Cont.(S1)		
Rated torque Locked rotor tore		2.98 ft.lb 290 %	Insulation Service fa		: F : 1.25		
Breakdown torqu	ue : C	350 %	Temperati		: 80 K		
Rated speed		1760 rpm	Design		: B		
Heating constan	t						
Cooling constan							
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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 :

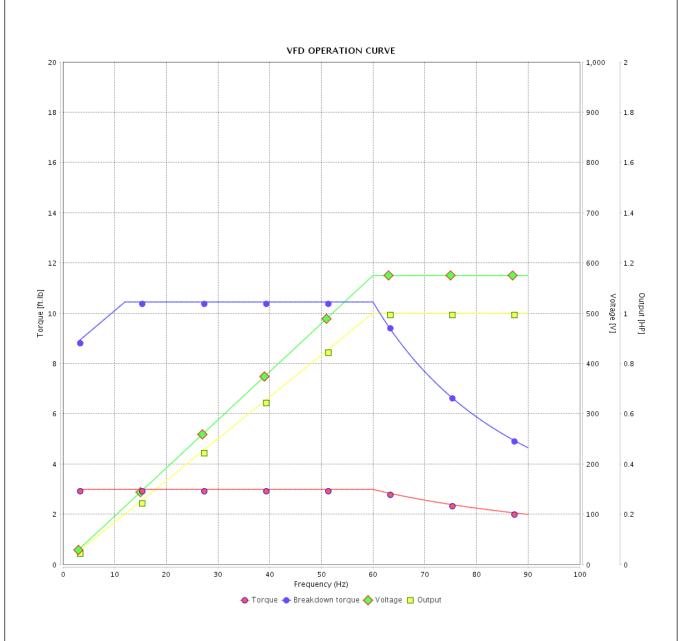
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598385

Catalog #: 00118ET3H143JM-W22

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Performance	: 575 V 60 Hz 4P						
Rated current	: 1.18 A	1.18 A Moment of inertia (J)		: 0.1172 sq.ft.lb			
LRC	: 8.6	Duty cycle		: Cont.(S1)			
Rated torque	: 2.98 ft.lb Insulation class		class	: F : 1.25			
Locked rotor torque	: 290 %	Service factor Temperature rise					
Breakdown torque	: 350 %			: 80 K			
Rated speed	: 1760 rpm	Design		: B			
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