DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12744550 Catalog #: 00159ET3H184T-W22 Frame : 182/4T Locked rotor time : 30s (cold) 17s (hot) Output : 1.5 HP (1.1 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 : 2.16 A Protection degree : IP55 L. R. Amperes : 12.7 A Cooling method : IC411 - TEFC LRC : 5.9x(Code K) Mounting : F-1 No load current : 1.60 A Rotation¹ : Both (CW and CCW) Rated speed : 865 rpm Noise level² : 50.0 dB(A) Starting method Slip : 3.89 % : Direct On Line Rated torque : 9.11 ft.lb Approx. weight³ : 97.6 lb Locked rotor torque : 290 % Breakdown torque : 340 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.5766 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 0.08 82.5 82.5 : 149 lb Efficiency (%) 79.6 Max. traction Power Factor 0.54 0.62 0.23 0.43 Max. compression : 246 lb Non drive end Drive end 6206 ZZ Bearing type 6207 ZZ V'Ring Sealing 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



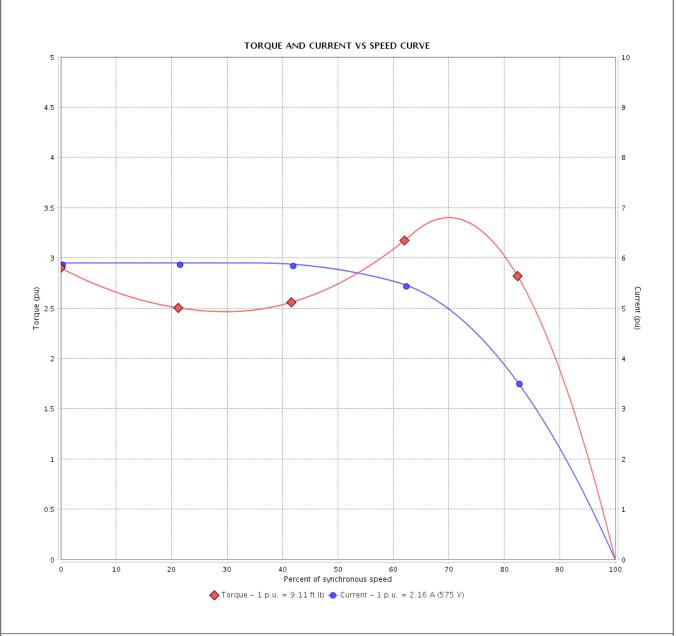
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12744550

Catalog #: 00159ET3H184T-W22



Performance	: 575 V 60 Hz 8P			
Rated current	: 2.16 A	Moment of inertia (J)	: 0.5766 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 9.11 ft.lb	Insulation class	: F	
Locked rotor torque	: 290 %	Service factor	: 1.25	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 865 rpm	Design	: B	
Looked votov time	. 20a (aald) 17a (bat)	<u>'</u>		

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

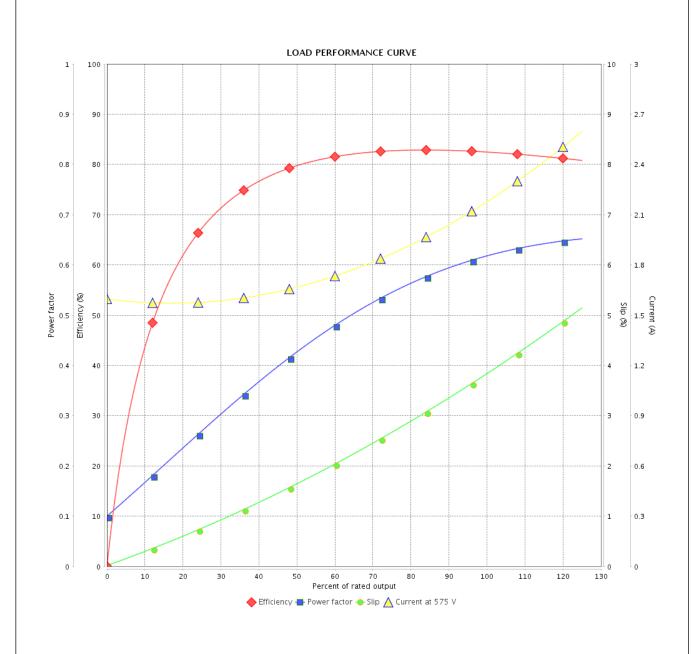


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12744550

Phase

Catalog #: 00159ET3H184T-W22



Performance	: 575 V 60 Hz 8P				
Rated current	: 2.16 A	Moment of inertia (J)		: 0.5766 sq.ft.lb	
LRC	: 5.9	Duty cycle		: Cont.(S1)	
Rated torque	: 9.11 ft.lb	Insulation class		:F	
Locked rotor torque	: 290 %	Service factor Temperature rise		: 1.25 : 80 K : B	
Breakdown torque	: 340 %				
Rated speed	: 865 rpm Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



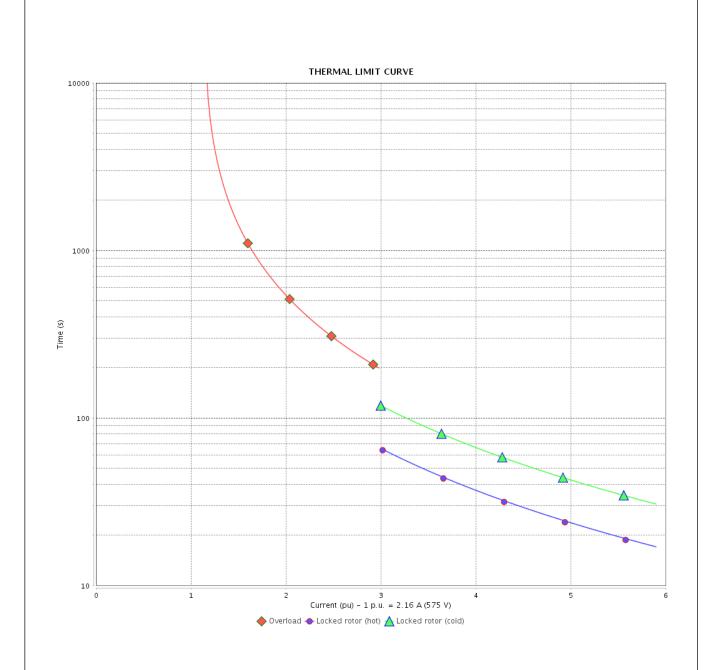
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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12744550 00159ET3H1	84T-W22
Performance		: 575 V 60 Hz 8P				
Rated current LRC		: 2.16 A : 5.9	Moment of Duty cycle	of inertia (J)	: 0.5766 sq.ft.l : Cont.(S1)	b
Rated torque		: 9.11 ft.lb : 290 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 340 %	Temperati		: 80 K	
Rated speed		: 865 rpm	Design		: B	
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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

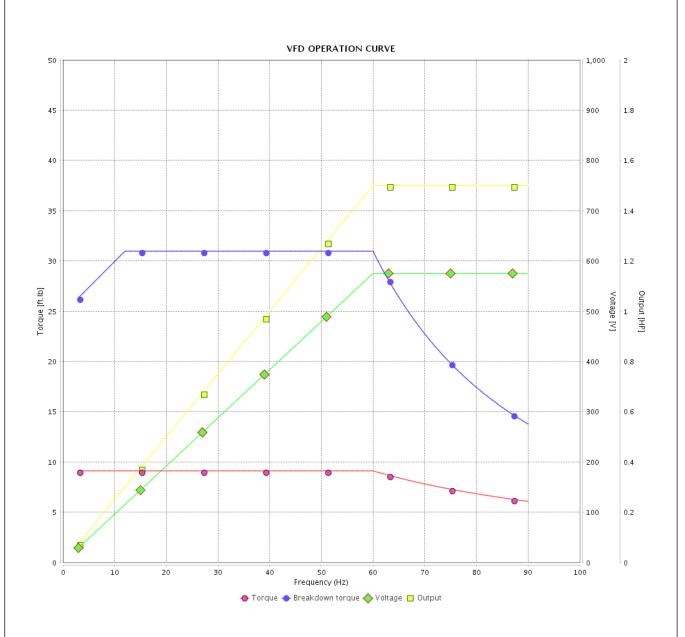


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12744550

Catalog #: 00159ET3H184T-W22



Performance	: 5	75 V 60 Hz 8P				
Rated current	: 2.	.16 A	Moment of inertia (J)		: 0.5766 sq.ft.lb	
LRC	: 5.	.9	Duty cycle	Duty cycle		
Rated torque		.11 ft.lb	Insulation class		:F	
Locked rotor tord	que : 29	90 %	Service factor		: 1.25	
Breakdown torqu	ue : 34	40 %	Temperature rise		: 80 K	
Rated speed	: 865 rpm		Design		: B	
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