DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line			: NEMA Premium Efficiency T Phase			Product code : Catalog # :	12199325 15012ET3H447T-W22
						Catalog # .	1301213114471-W22
Frame		: 445	/7T		Locked rotor time		: 36s (cold) 20s (hot)
Output		: 150	HP (110 k	W)		erature rise	: 80 K
Poles		: 6			Duty		: Cont.(S1)
Frequency		: 60 l	Ηz		Ambi	ent temperature	: -20°C to +40°C
Rated voltage		: 575	V		Altitu		: 1000 m.a.s.l.
Rated current		: 141	Α			ction degree	: IP55
L. R. Amperes		: 873				ng method	: IC411 - TEFC
LRC			(Code G)		Mour		: F-1
No load current			: 56.0 A			tion¹	: Both (CW and CCW)
Rated speed		: 1187 rpm				e level²	: 69.0 dB(A)
Slip		: 1.08 %				ng method	: Direct On Line
Rated torque		: 664 ft.lb			Appro	ox. weight³	: 2269 lb
Locked rotor tord		: 240 %					
Breakdown torqu	ıe	: 250	%				
Insulation class		: F					
Service factor		: 1.15					
Moment of inertia	a (J)	: 134 sq.ft.lb					
Design		: B					
Output	25%	50%	75%	100%	Founda	ation loads	
Efficiency (%)	94.5	95.0	95.4	95.8	Max. tra	action	: 3288 lb
Power Factor	0.43	0.67	0.78	0.82	Max. co	ompression	: 5557 lb
			Driv	e end		Non drive end	
Bearing type		:	: 6319 C3		6316 C3		
Sealing		:	: WSeal		WSeal		
Lubrication interval		:	13000 h		16000 h		
Lubricant amoun	ıt	:	4	45 g		34 g	
Lubricant type		:		Mo	bil Polyre	ex EM	
Notos							

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



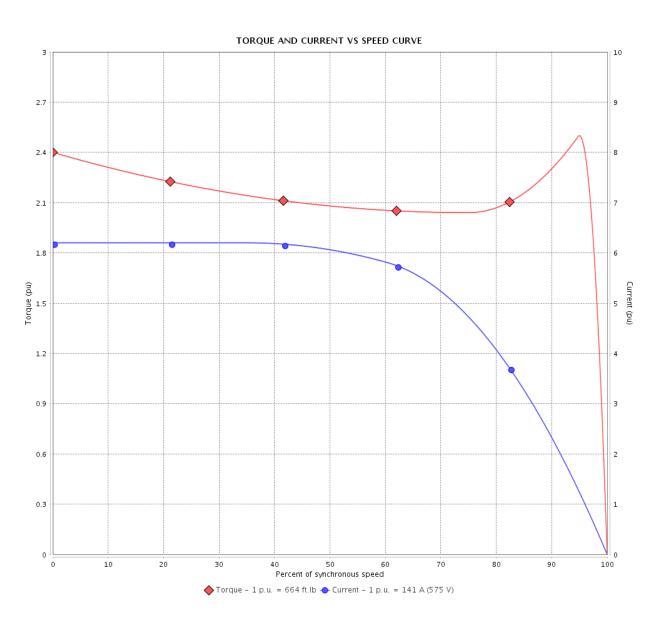
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12199325

Catalog #: 15012ET3H447T-W22



Performance : 575 V 60 Hz 6P Rated current : 141 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 664 ft.lb : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1187 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



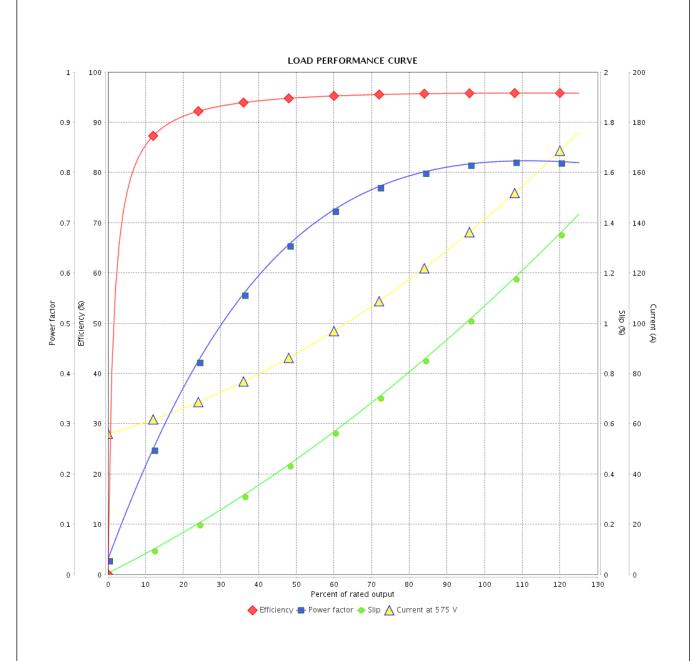
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12199325

Phase

Catalog #: 15012ET3H447T-W22

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Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 141 A : 6.2 : 664 ft.lb : 240 % : 250 % : 1187 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 134 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



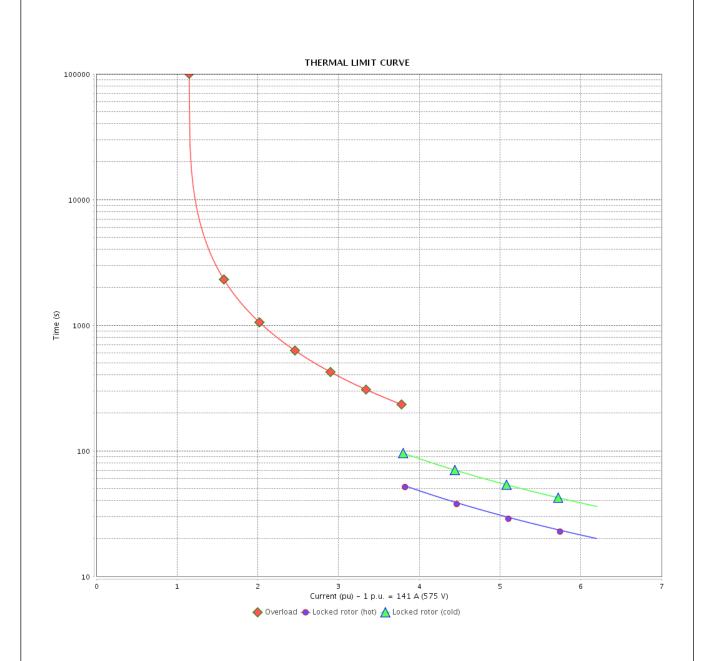
Customer	:				
Product line	: NEMA Premium Efficiency Thase		Product code :	12199325 15012ET3H4	47T-W22
Performance	: 575 V 60 Hz 6P				
	: 141 A : 6.2	Moment of Duty cycle	f inertia (J)	: 134 sq.ft.lb : Cont.(S1)	
Rated torque	: 664 ft.lb	Insulation	class	: F	
	: 240 % : 250 %	Service far Temperatu		: 1.15 : 80 K	
	: 1187 rpm	Design	110 H3C	: B	
Heating constant					
Cooling constant		r			
Rev.				<u> </u>	
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Performed by	Changes Summary		Performed	Checked	Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



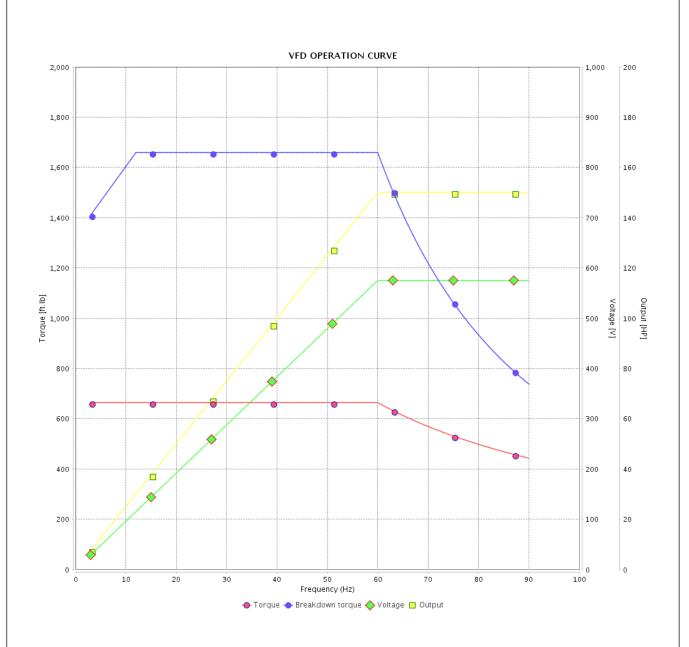
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12199325

Catalog #: 15012ET3H447T-W22



Performance	: 5	75 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 6 que : 2 ue : 2	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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