DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11767948 Catalog #: 00158ET3H145TC-W22 Frame : 143/5TC Locked rotor time : 25s (cold) 14s (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 : 1.62 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 13.6 A : 8.4x(Code L) LRC Mounting : F-1 No load current : 0.880 A Rotation¹ : Both (CW and CCW) Rated speed : 1755 rpm Noise level² : 51.0 dB(A) Starting method Slip : 2.50 % : Direct On Line Rated torque : 4.49 ft.lb Approx. weight³ : 51.9 lb Locked rotor torque : 290 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1431 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 85.5 86.5 Efficiency (%) 81.3 82.5 Max. traction : 111 lb Power Factor 0.79 : 163 lb 0.35 0.60 0.70 Max. compression Drive end Non drive end Bearing type 6205 ZZ 6204 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



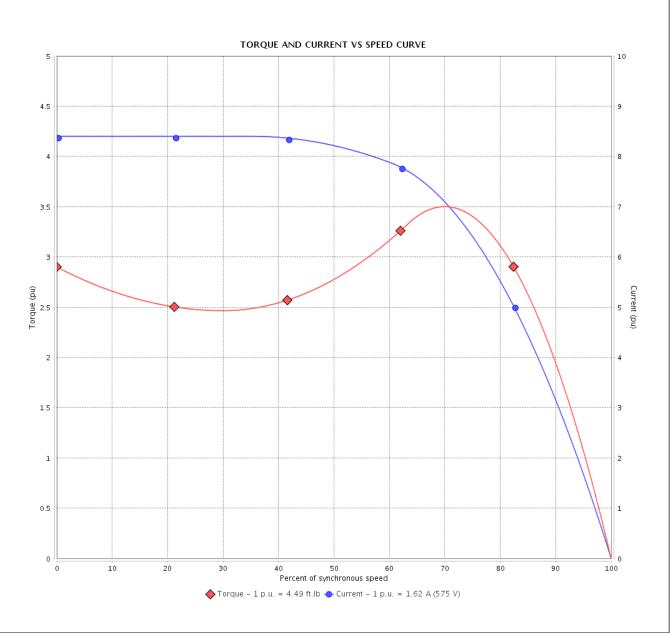
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11767948

Catalog # : 00158ET3H145TC-W22



Performance : 575 V 60 Hz 4P Rated current : 1.62 A Moment of inertia (J) : 0.1431 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 4.49 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



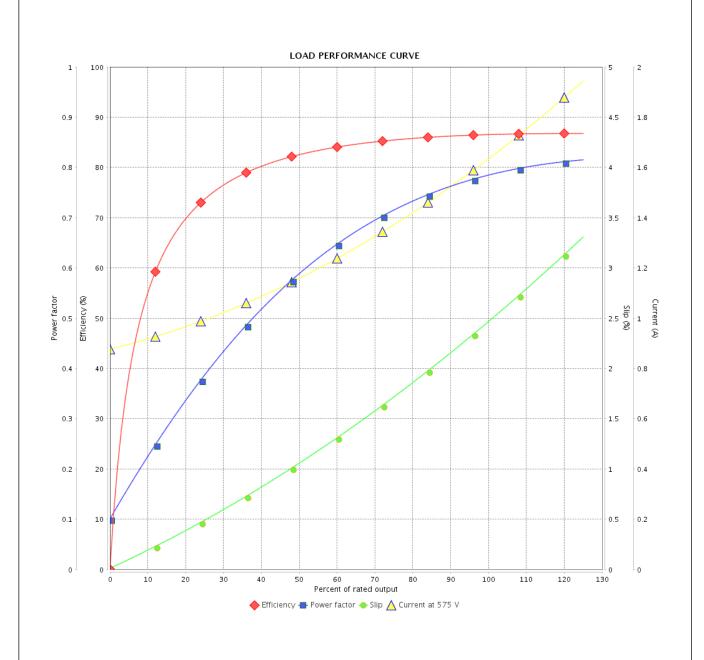
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11767948

Phase

Catalog #: 00158ET3H145TC-W22

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Performance	: 575 V 60 Hz 4P				
Rated current LRC	: 1.62 A : 8.4	Moment of inertia (J) Duty cycle		: 0.1431 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 4.49 ft.lb : 290 % : 350 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed	: 1755 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



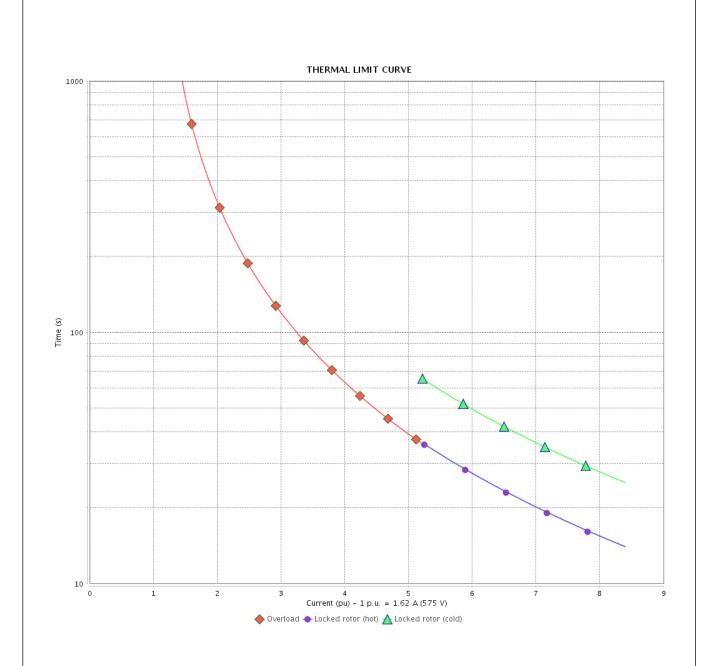
Customer	:				
Product line	: NEMA Premium Efficie	ncy Three-	Product code :	11767948	
	Phase		Catalog # :	00158ET3H1	45TC-W22
Performance	: 575 V 60 Hz 4P				
Rated current	: 1.62 A	Moment of	of inertia (J)	: 0.1431 sq.ft.l	b
LRC Rated torque	: 8.4 : 4.49 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 290 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 350 % : 1755 rpm	Temperat Design	ure rise	: 80 K : 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 :

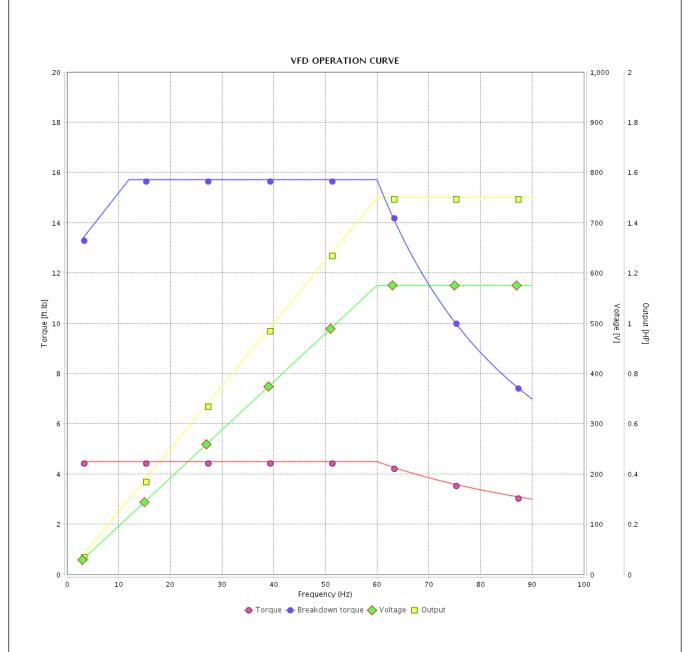
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158ET3H145TC-W22

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11767948



Performance	: 575 V 60 Hz 4P							
Rated current LRC	: 1.62 A : 8.4	Moment of inertia (J) Duty cycle		: 0.1431 sq.ft.lb : Cont.(S1)				
Rated torque Locked rotor torque	: 4.49 ft.lb : 290 %	Insulation class Service factor		: F : 1.25				
Breakdown torque Rated speed	: 350 % : 1755 rpm	Temperature rise Design		: 80 K : B				
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