DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270882 Three-Phase Catalog #: 05012OT3V365T-W40 Frame : 364/5T Locked rotor time : 27s (cold) 15s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 134/66.8 A Protection degree : IP23 L. R. Amperes : 895/448 A Cooling method : IC01 - ODP LRC : 6.7x(Code G) Mounting : F-1 No load current : 46.9/23.5 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 222 ft.lb Approx. weight³ : 820 lb Locked rotor torque : 220 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.9 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction : 1412 lb Power Factor 0.82 0.85 0.48 0.74 Max. compression : 2232 lb Non drive end Drive end 6314 C3 Bearing type 6212 Z C3

Bearing type : 6314 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 27 g 13 g

Lubricant amount : 27 g
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



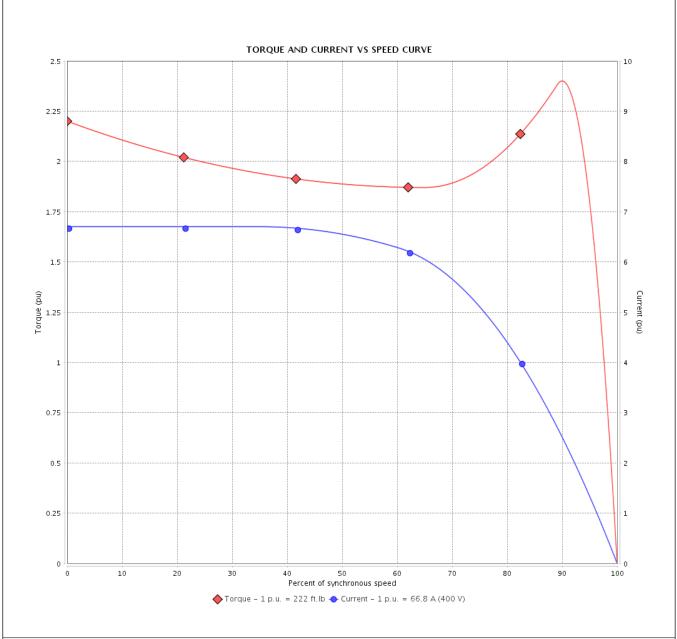
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270882

Catalog #: 05012OT3V365T-W40



: 200/400 V 60 Hz 6P Performance Rated current : 134/66.8 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

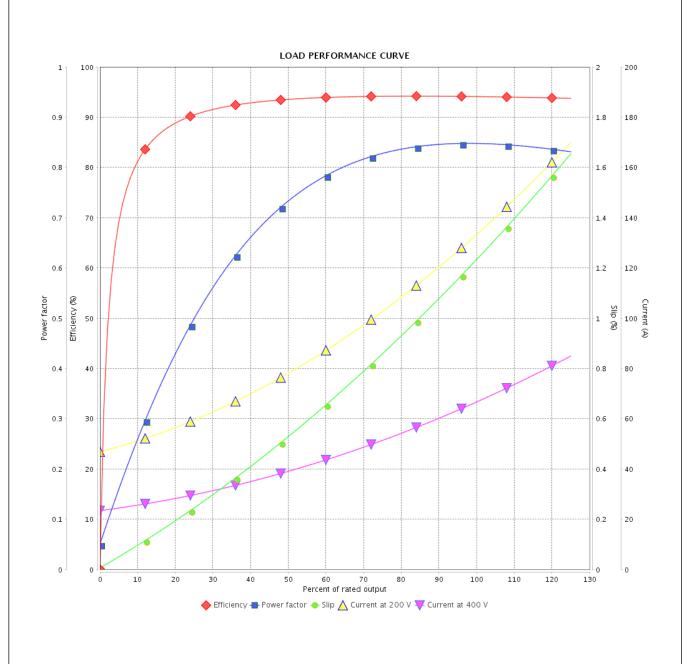


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270882

Three-Phase

Catalog #: 05012OT3V365T-W40



Performance : 20		0/400 V 60 Hz 6P					
Rated current : 134		34/66.8 A	Moment o	Moment of inertia (J)			
LRC : 6.7		7	Duty cycle	Duty cycle			
Rated torque : 22		22 ft.lb	Insulation class		: F		
Locked rotor torque : 22		20 %	Service factor		: 1.25		
Breakdown torque : 24		10 %	Temperature rise		: 80 K		
Rated speed : 1		85 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



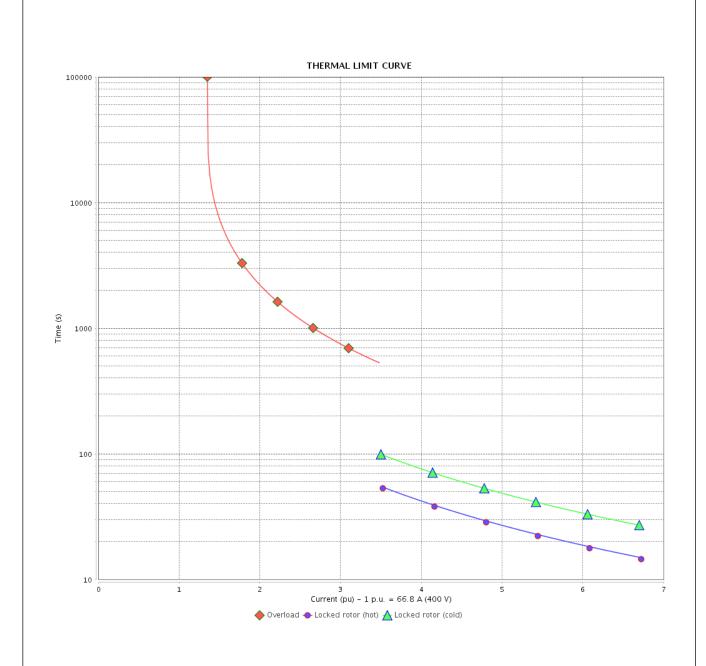
Customer	:					
Product line	: \ Tt	W40 NEMA Premium Efficie hree-Phase		Product code :	14270882 05012OT3V3	65T-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 13 : 6. : 22 que : 22 ue : 24 : 11	00/400 V 60 Hz 6P 34/66.8 A 7 22 ft.lb 20 % 40 % 185 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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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



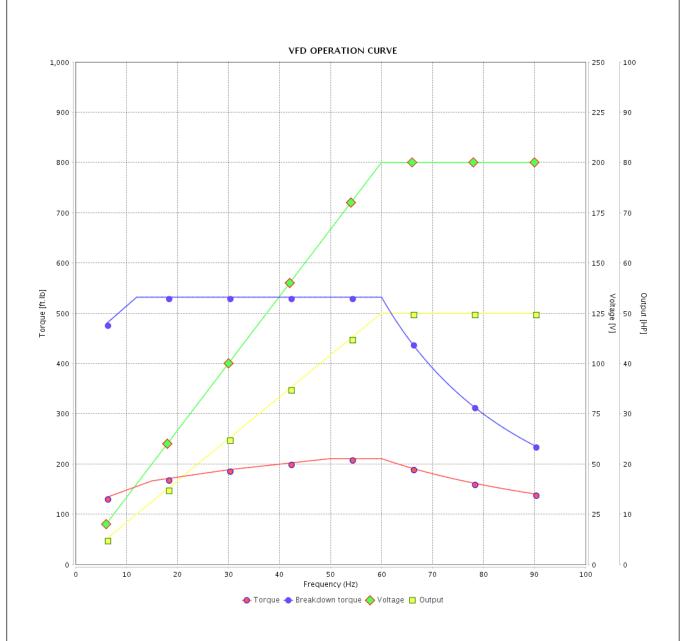
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270882

Catalog #: 05012OT3V365T-W40



Performance	: 200/400 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 134/66.8 A : 6.7 : 222 ft.lb : 220 % : 240 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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12/04/2022

Date

