DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14501150 Three-Phase Catalog #: 02518OT3P284T-W40 Frame : 284T Locked rotor time : 64s (cold) 36s (hot) Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200 V : 1000 m.a.s.l. Altitude Rated current : 67.8 A Protection degree : IP23 L. R. Amperes : 427 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 25.3 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight³ : 350 lb Locked rotor torque : 250 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.71 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.8 93.0 93.6 93.6 Max. traction Power Factor 0.84 0.45 0.69 0.80 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 18 g 11 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



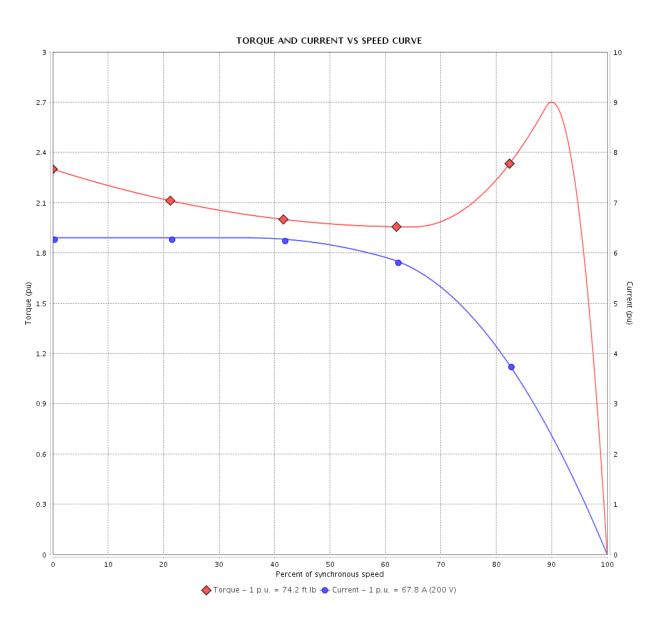
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501150

Catalog #: 02518OT3P284T-W40



Performance : 200 V 60 Hz 4P Rated current : 67.8 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

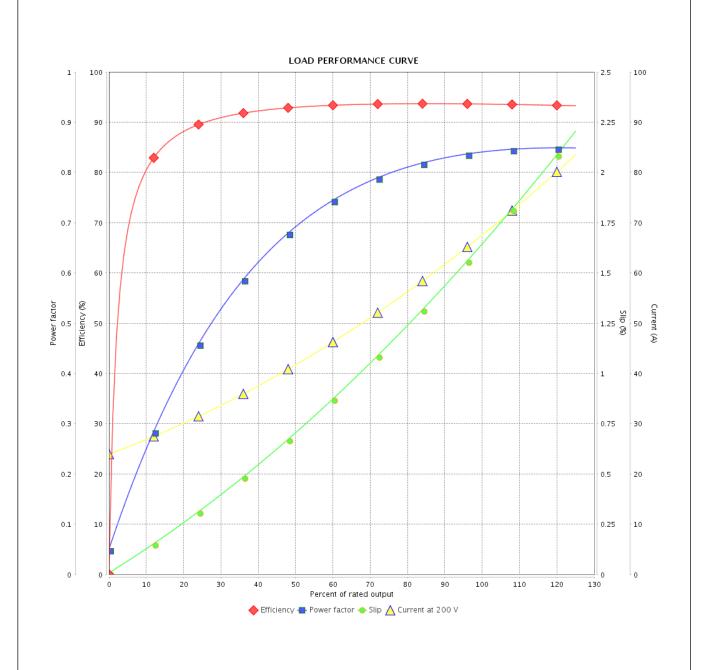


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14501150

Three-Phase

Catalog #: 02518OT3P284T-W40



Performance	:	200 V 60 Hz 4P				
Rated current	:	: 67.8 A Moment of inertia (J)		f inertia (J)	: 3.71 sq.ft.lb	
LRC		6.3	Duty cycle		: Cont.(S1)	
Rated torque	:	74.2 ft.lb	Insulation class		:F	
Locked rotor torque	:	250 %	Service factor		: 1.25	
Breakdown torque	:	: 270 % : 1765 rpm De		ıre rise	: 80 K	
Rated speed	:				: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



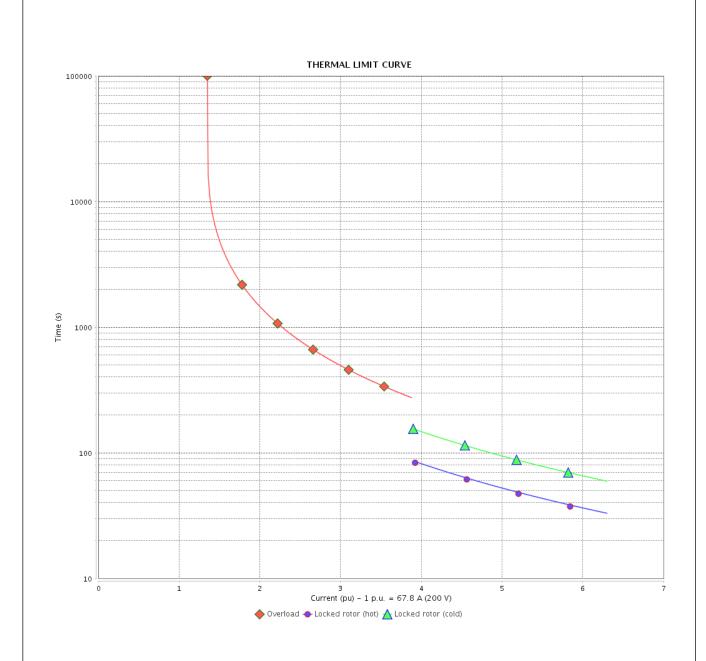
Customer	:				_	
Product line		N40 NEMA Premium Effici nree-Phase	ency	Product code :	14501150	
	''	ilee-riiase		Catalog # :	02518OT3P2	84T-W40
Performance		00 V 60 Hz 4P	N4	6 : (I)	. 0 74 # 11-	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		4.2 ft.lb 50 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque	: 27	70 %	Temperatu		: 80 K	
Rated speed	: 17	765 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		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



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Date

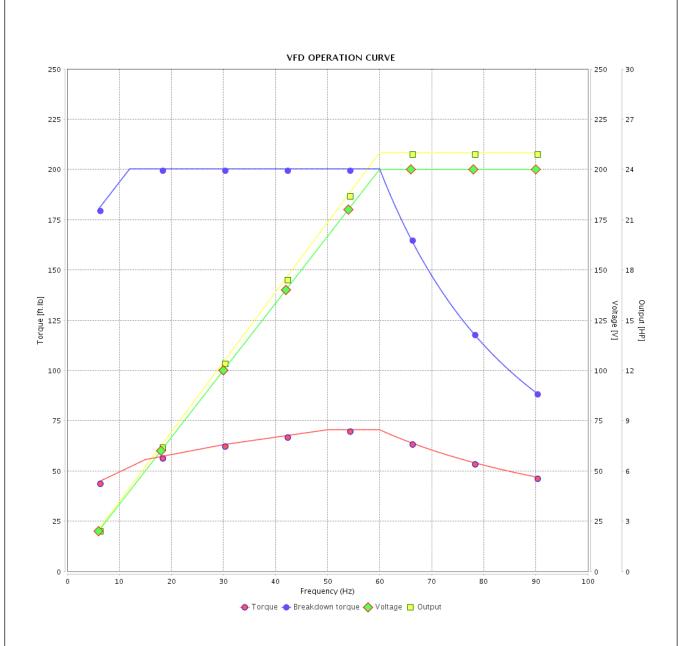
13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501150

Catalog #: 02518OT3P284T-W40



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