DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494183 Three-Phase Catalog #: 01518OT3H254T-W40 Frame : 254T Locked rotor time : 61s (cold) 34s (hot) Output : 15 HP (11 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 : 14.0 A Protection degree : IP23 L. R. Amperes : 89.6 A Cooling method : IC01 - ODP LRC : 6.4x(Code G) Mounting : F-1 No load current : 5.44 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 62.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 44.4 ft.lb Approx. weight³ : 246 lb Locked rotor torque : 220 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.72 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.0 91.7 92.4 93.0 Max. traction Power Factor 0.66 0.85 0.43 0.78 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6209 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g

Mobil Polyrex EM

Notes

Lubricant type

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



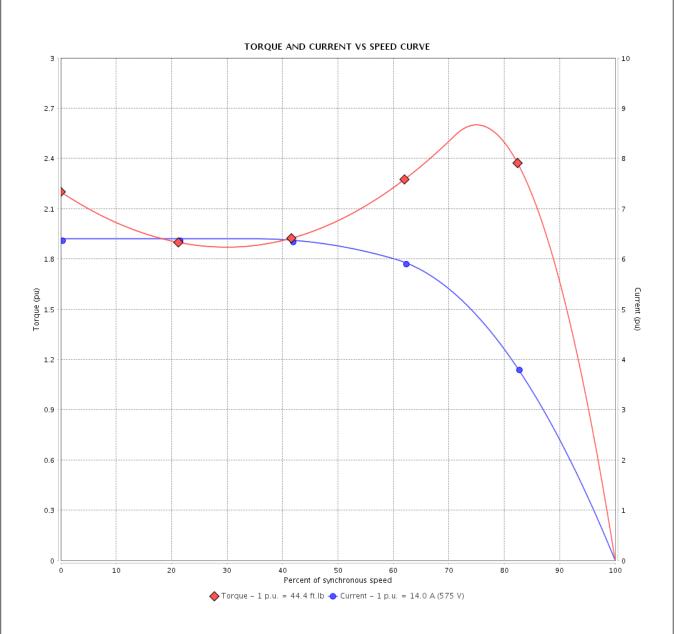
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494183

Catalog #: 01518OT3H254T-W40



Performance : 575 V 60 Hz 4P Rated current : 14.0 A Moment of inertia (J) : 2.72 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Locked rotor time

: 61s (cold) 34s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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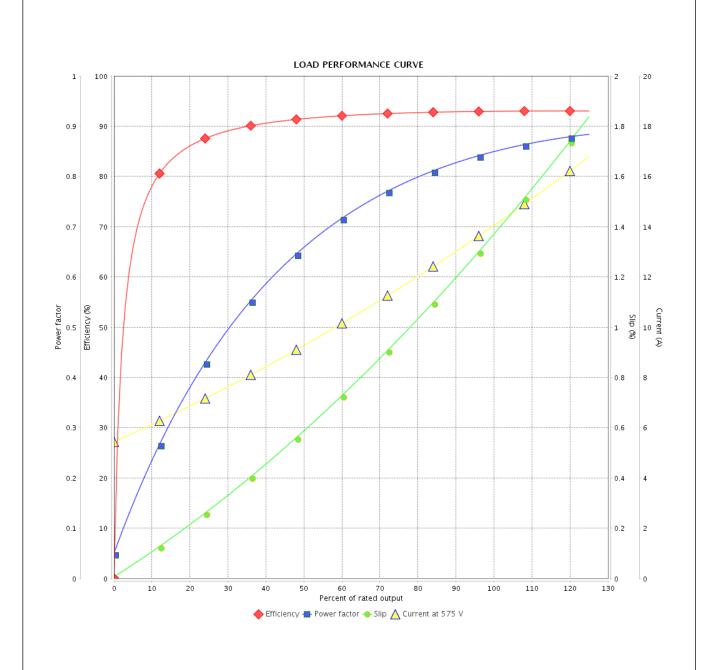
Date

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Product line : W40 NEMA Premium Efficiency Product code : 14494183

Three-Phase

Catalog #: 01518OT3H254T-W40



Performance : 575 V 60 Hz 4P : 14.0 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Date Rev. Performed Checked **Changes Summary** Performed by

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



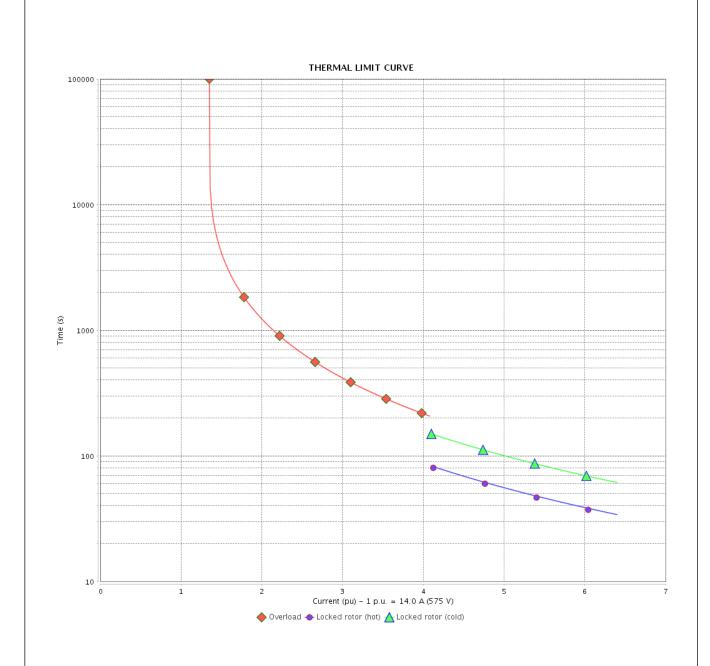
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Product line	: \	N40 NEMA Premium Effici nree-Phase	ency	Product code :	14494183	
	11	liee-riidse	(Catalog # :	01518OT3H2	54T-W40
Performance		75 V 60 Hz 4P	N4	6 (/ I)	0.70 (1.11)	
Rated current LRC	: 1 ² : 6.	4.0 A 4	Moment of Duty cycle	f inertia (J)	: 2.72 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.4 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		775 rpm	Design		: B	
Heating constant						
Cooling constant		Ob an ana O		Devi	01-	D :
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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



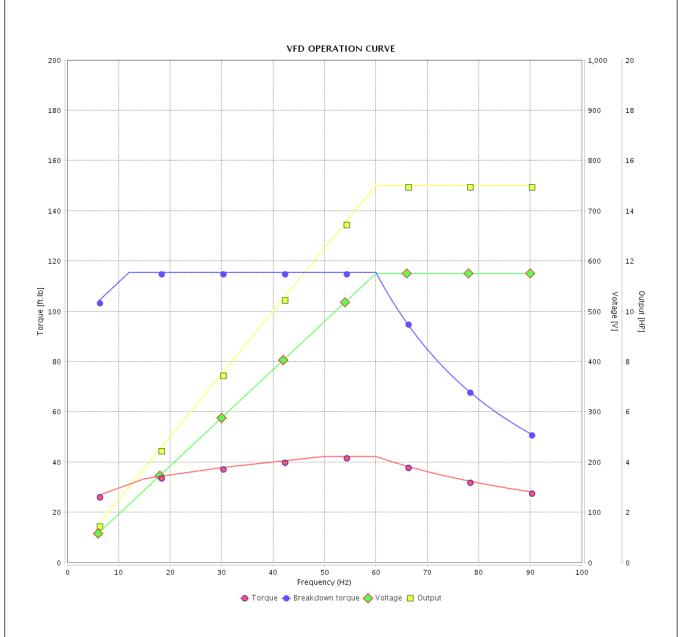
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494183

Catalog #: 01518OT3H254T-W40



Performance	: 575 V 60 Hz 4P				
Rated current	: 14.0 A	Moment o	f inertia (J)	: 2.72 sq.ft.lb	
LRC	: 6.4	Duty cycle		: Cont.(S1)	
Rated torque	: 44.4 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 260 % Temperature i		re rise : 80 K		
Rated speed	: 1775 rpm	Design		: B	
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13/04/2022

Date

