DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494184 Three-Phase Catalog #: 01518OT3H254TC-W40 Frame : 254TC 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 : 1000 m.a.s.l. : 575 V 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 : 252 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

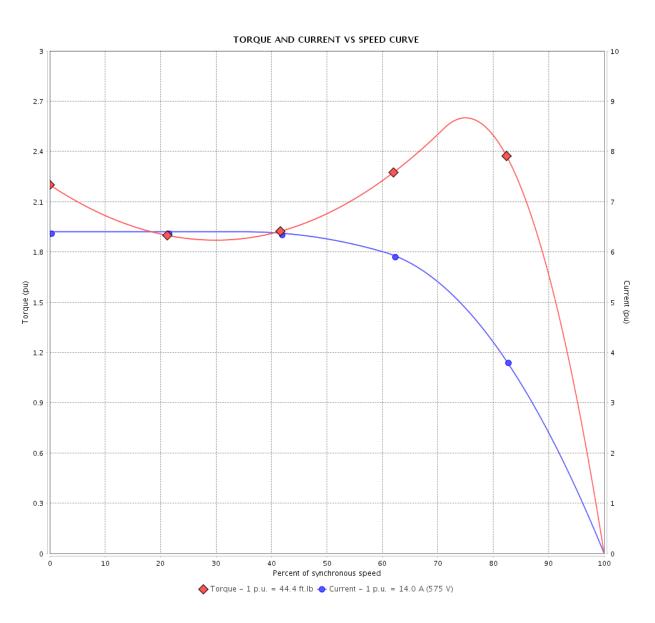


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14494184

Three-Phase

01518OT3H254TC-W40 Catalog #:



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)	
Rated torque	: 44.4 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 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

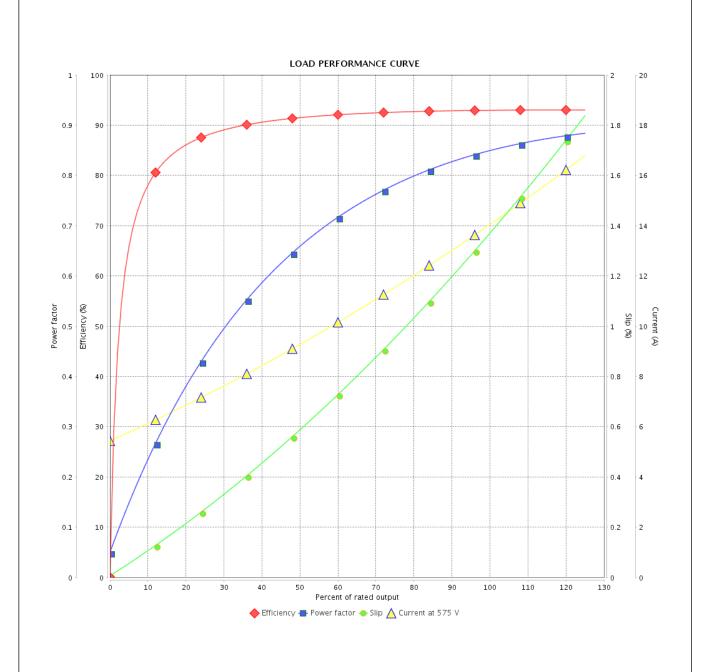
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14494184

Catalog #: 01518OT3H254TC-W40



Performance		: 575 V 60 Hz 4P					
Rated current		4.0 A Moment of inertia (J)		: 2.72 sq.ft.lb			
LRC : 6 Rated torque : 4		Duty cycle 4.4 ft.lb Insulation class		;	: Cont.(S1)	nt.(S1)	
				class	ss : F		
Locked rotor torque		220 %	Service fa	Service factor			
Breakdown torque	: 2	: 260 % Temperature rise Design		ıre rise	: 80 K		
Rated speed	: 1				: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



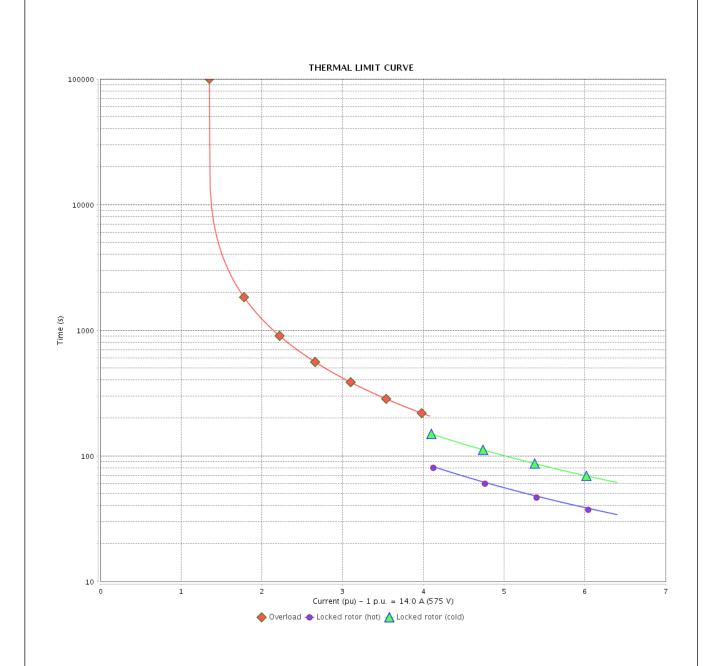
Customer	:					
Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14494184	
		ilee-Filase	(Catalog # :	01518OT3H2	54TC-W40
Performance	: 57	75 V 60 Hz 4P				
Rated current		1.0 A	Moment of	f inertia (J)	: 2.72 sq.ft.lb	
LRC Rated torque	: 6. : 44	4 1.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu		20 %	Service fa		: 1.25	
Breakdown torque Rated speed		60 % 775 rpm	Temperatu Design	II E IISE	: 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



Revision

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Customer :

Checked by

Date

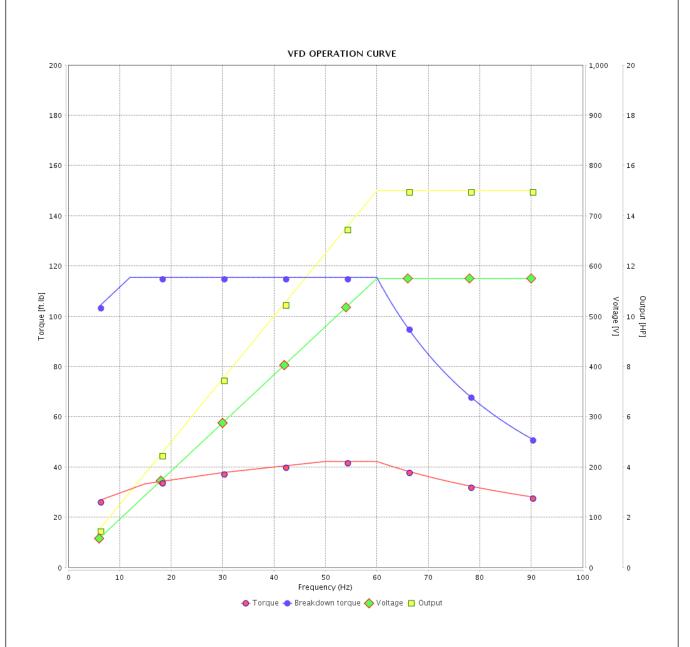
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494184

Catalog #: 01518OT3H254TC-W40



Performance : 575 V 60 Hz 4P : 14.0 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 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 Rev. Performed Checked Date **Changes Summary** Performed by

