DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272925 Three-Phase Catalog #: 12518OT3E405T-W40G Frame : 404/5T Locked rotor time : 18s (cold) 10s (hot) Output : 125 HP Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 276/138 A Protection degree : IP23 L. R. Amperes : 1904/952 A Cooling method : IC01 - ODP LRC : 6.9x(Code G) Mounting : F-1 No load current : 94.0/47.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 369 ft.lb Approx. weight³ : 1072 lb Locked rotor torque : 270 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 25.5 sq.ft.lb Design : B

Foundation loads

Max. compression

Max. traction

Drive end
Bearing typeDrive end
6316 C3Non drive end
6212 Z C3Sealing: Without Bearing Seal
Lubrication interval
Lubricant amount: 20000 hWithout Bearing Seal
20000 h

100%

95.4

0.86

Lubricant amount : 34 g
Lubricant type : Mobil Polyrex EM

75%

95.4

0.83

Notes

Output

Efficiency (%)

Power Factor

USABLE @208V 305A SF 1.15 SFA 351A

25%

94.9

0.50

50%

95.0

0.75

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.

: 2869 lb

: 3941 lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



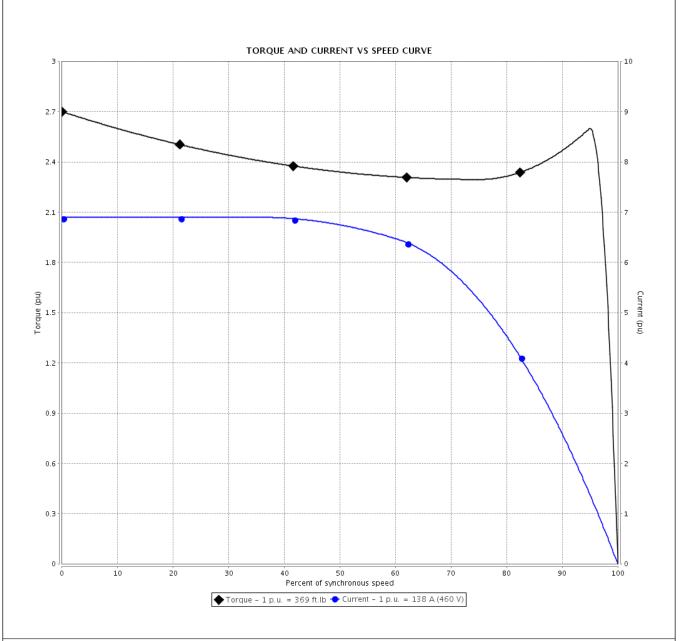
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272925

Catalog #: 12518OT3E405T-W40G



: 230/460 V 60 Hz 4P Performance Rated current : 276/138 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 369 ft.lb : F Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

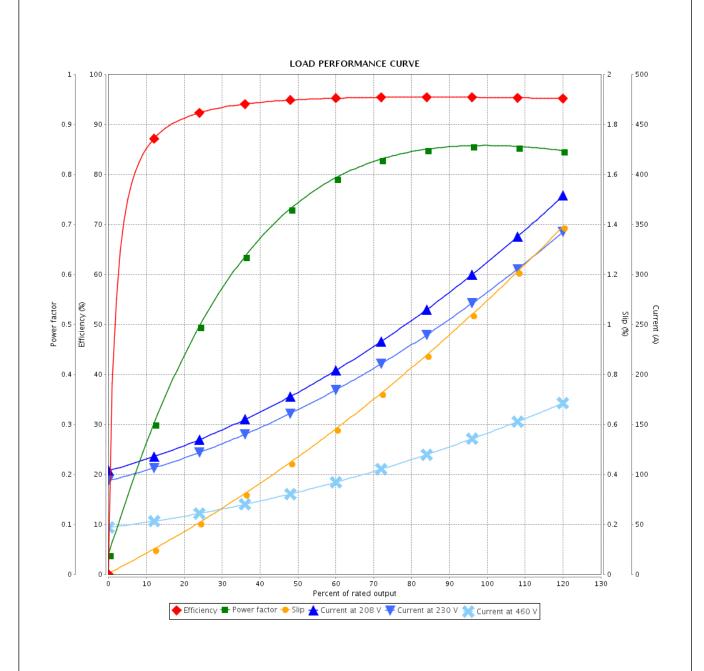


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272925

Three-Phase

Catalog #: 12518OT3E405T-W40G



Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 2	76/138 A Moment of inertia (J)		: 25.5 sq.ft.lb				
LRC		3.9	Duty cycle	Duty cycle				
Rated torque	: 3	369 ft.lb	Insulation class		: F			
Locked rotor torqu	ie : 2	270 %	Service fa	Service factor				
Breakdown torque	: 2	260 %	Temperati	Temperature rise				
Rated speed	: 1	1780 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



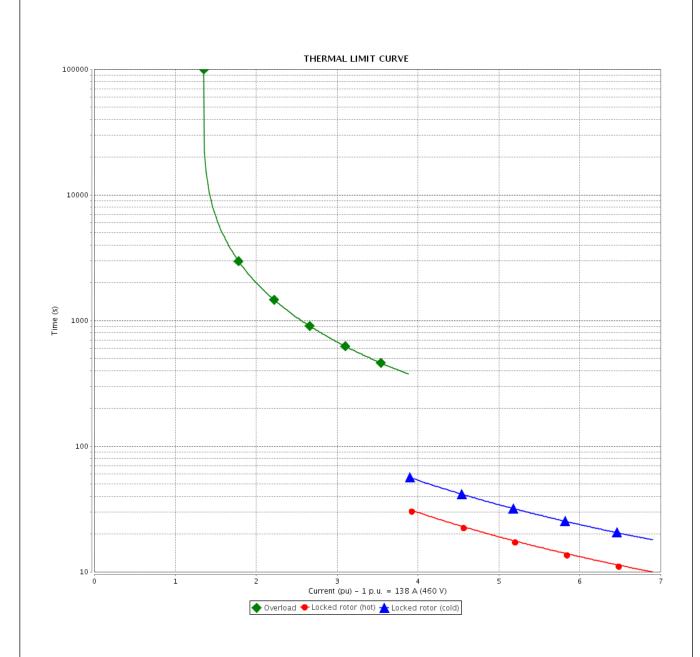
Customer	:					
Product line		N40 NEMA Premium Efficionree-Phase	ency I	Product code :	14272925	
	11	iiee-riiase	(Catalog # :	12518OT3E4	05T-W40G
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 27 : 6.	76/138 A 9	Moment of Duty cycle	f inertia (J)	: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 36	69 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 60 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant						
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5.155RGG by					1 4 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

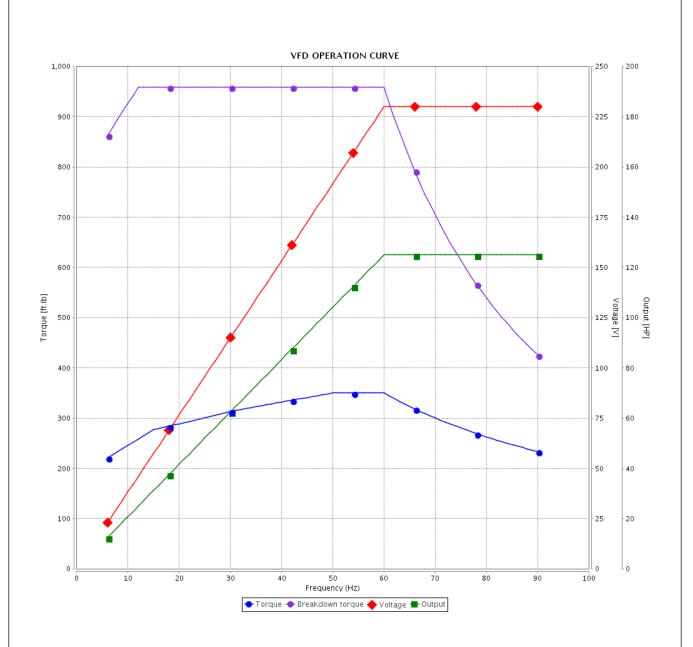
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272925

Catalog #: 12518OT3E405T-W40G

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Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 276/138 A : 6.9 : 369 ft.lb : 270 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 25.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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Performed by							
Checked by				Page	Revision		

10/04/2020

Date

