DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495599 Three-Phase Catalog #: 02536OT3H256TC-W40 Frame : 254/6TC Locked rotor time : 19s (cold) 11s (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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 23.0 A Protection degree : IP23 : 150 A L. R. Amperes Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 6.80 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 119 kg Rated torque : 5.13 kgfm Locked rotor torque : 200 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 : 0.0478 kgm² Moment of inertia (J) Design : B 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 90.8 91.0 91.7 Max. traction Power Factor 0.88 0.53 0.77 0.85 Max. compression Non drive end Drive end 6309 Z C3 Bearing type 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



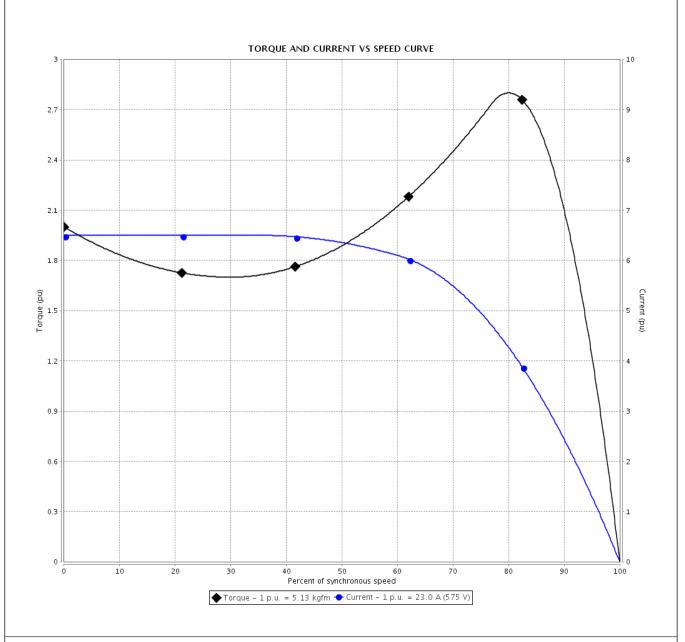
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495599

Catalog #: 02536OT3H256TC-W40



 Performance
 : 575 V 60 Hz 2P

 Rated current
 : 23.0 A
 Moment of inertia (J)
 : 0.0478 kgm²

 LRC
 : 6.5
 Duty cycle
 : Cont.(S1)

: F Insulation class Rated torque : 5.13 kgfm : 200 % Service factor Locked rotor torque : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



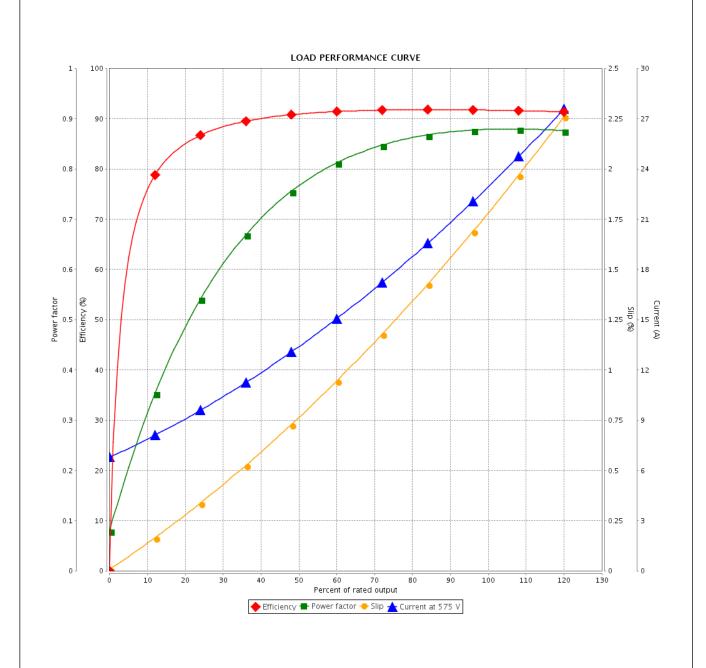
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 02536OT3H256TC-W40

14495599



Performance	: 57	′5 V 60 Hz 2P				
Rated current ::		3.0 A	Moment of inertia (J)		: 0.0478 kgm²	
LRC : 6.9		5	Duty cycle		: Cont.(S1)	
Rated torque : 5		13 kgfm	Insulation class		: F	
•		00 %	Service factor		: 1.25	
Breakdown torque	: 28	80 %	Temperature rise		: 80 K	
Rated speed	: 35	35 rpm Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



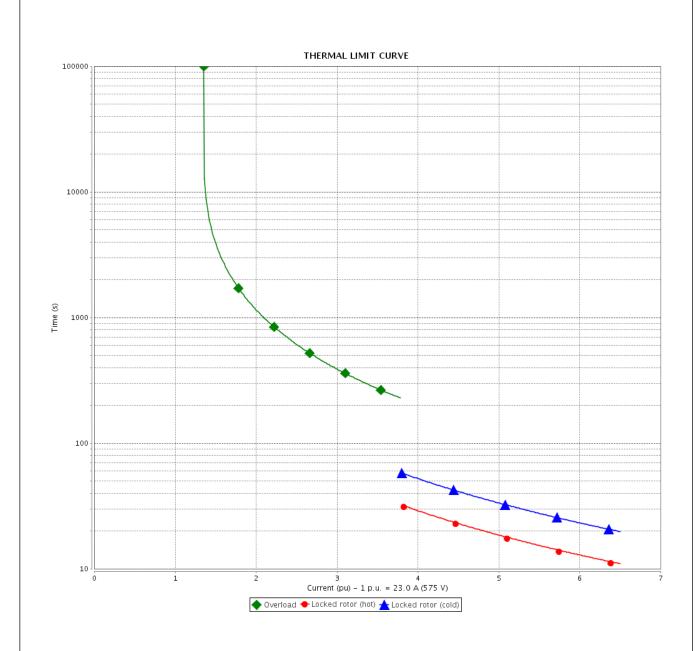
Customer	:					
Product line		N40 NEMA Premium Effici	ency I	Product code :	14495599	
			(Catalog # :	02536OT3H2	256TC-W40
Performance	: 57	75 V 60 Hz 2P				
Rated current LRC Rated torque	: 23 : 6.	3.0 A	Moment of Duty cycle Insulation	f inertia (J)	: 0.0478 kgm² : Cont.(S1) : F	
Locked rotor torqu	ie : 20	00 %	Service fac	ctor	: 1.25	
Breakdown torque Rated speed	: 28	30 % 535 rpm	Temperatu Design		: 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



Customer :

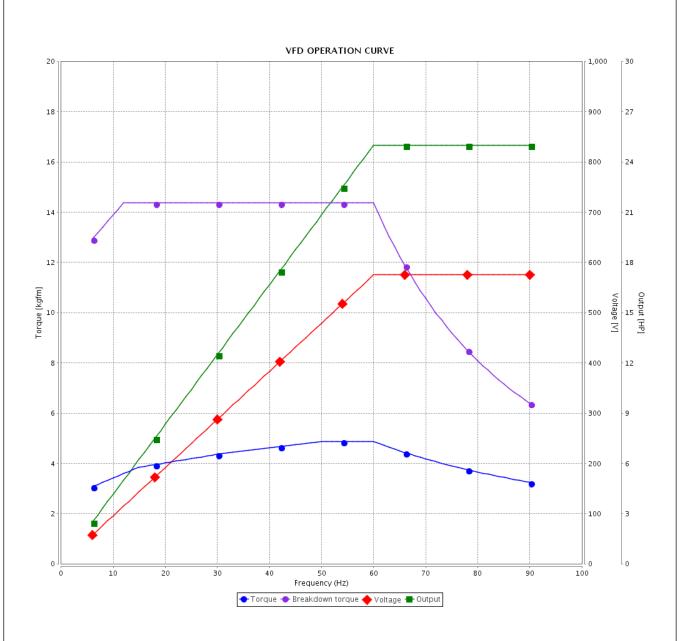
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495599

Catalog #: 02536OT3H256TC-W40

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Performance	: 575 V 60 Hz 2P				
Rated current	: 23.0 A	Moment of inertia (J)		: 0.0478 kgm²	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 5.13 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	: 280 %	Temperature	Temperature rise		
Rated speed	: 3535 rpm	Design		: B	
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Checked by				Page	Revision

11/04/2020

Date