DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494894 Three-Phase Catalog #: 02018OT3V256TC-W40 Frame : 254/6TC Locked rotor time : 46s (cold) 26s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 55.4/27.7 A Protection degree : IP23 L. R. Amperes : 355/177 A Cooling method : IC01 - ODP LRC : 6.4x(Code G) Mounting : F-1 No load current : 23.0/11.5 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 301 lb Locked rotor torque : 220 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.13 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.2 92.4 93.0 93.0 Max. traction Power Factor 0.84 0.43 0.69 0.79 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

Mobil Polyrex EM

13 g

Notes

Lubricant amount

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.

9 g

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



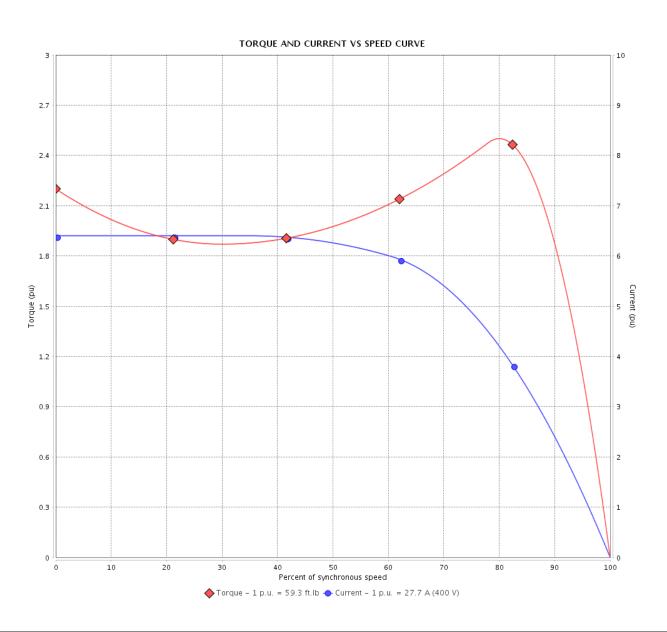
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494894

Catalog #: 02018OT3V256TC-W40



Performance : 200/400 V 60 Hz 4P Rated current : 55.4/27.7 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

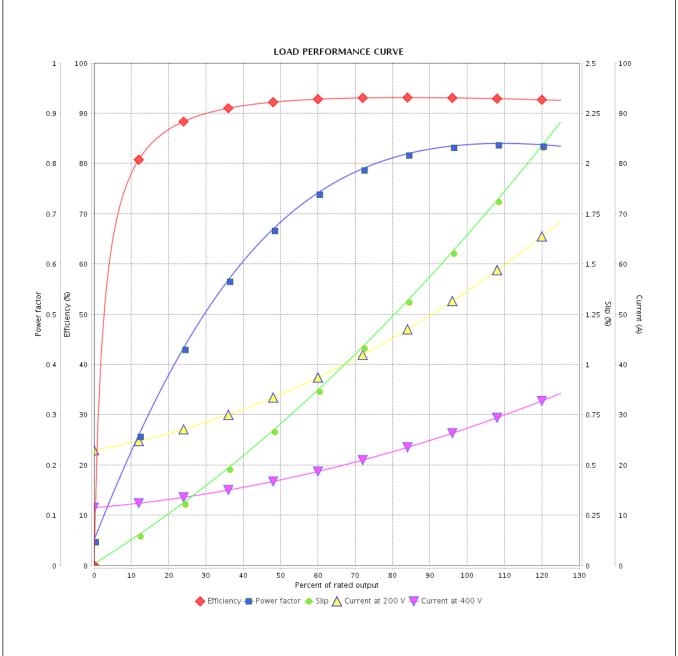


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14494894

Three-Phase

Catalog #: 02018OT3V256TC-W40



Performance	: 2	: 200/400 V 60 Hz 4P						
Rated current		55.4/27.7 A Moment of inertia (J)		: 3.13 sq.ft.lb				
LRC		6.4	Duty cycle		: Cont.(S1)			
Rated torque		59.3 ft.lb	Insulation class		: F			
Locked rotor torque		220 %	Service factor		: 1.25			
Breakdown torque	: 2	250 %	Temperature rise		: 80 K			
Rated speed	: '	: 1770 rpm			: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	14/04/2022				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



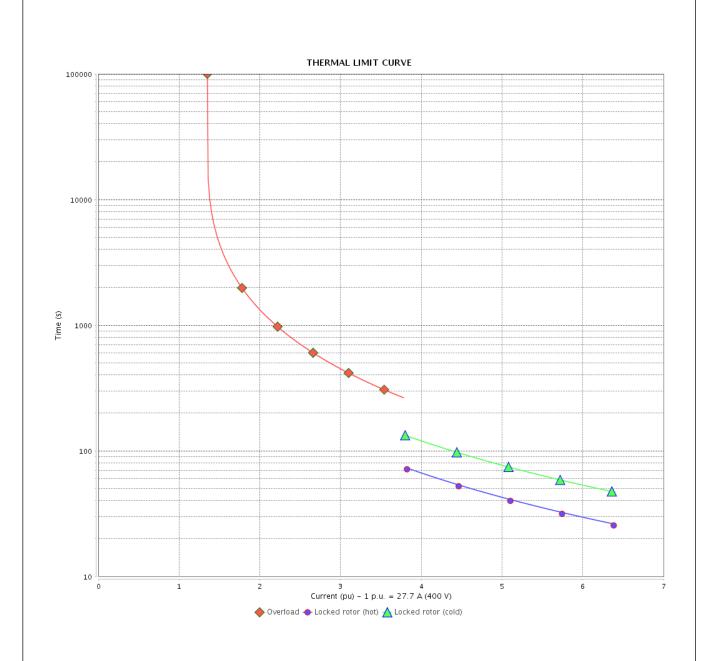
Customer	:				_	
Product line		N40 NEMA Premium Efficionree-Phase		Product code :	14494894 02018OT3V2	56TC-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torque Rated speed	: 55 : 6. : 50 ue : 22 e : 25	00/400 V 60 Hz 4P 5.4/27.7 A 4 9.3 ft.lb 20 % 50 % 770 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : 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 :



Rev.	Changes Summary		Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

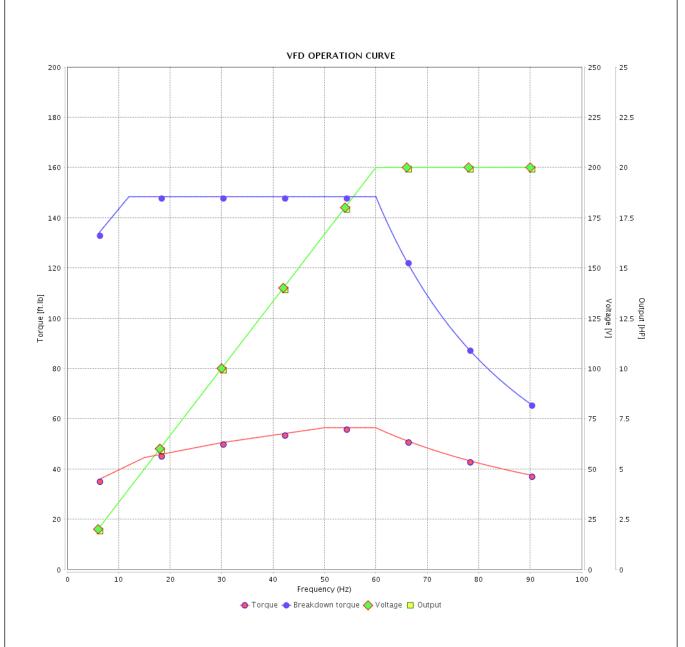
Product code: 14494894

Catalog #: 02018OT3V256TC-W40

Page

6/6

Revision



Performance	:	200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue :	55.4/27.7 A 6.4 59.3 ft.lb 220 % 250 % 1770 rpm	Duty cycle Insulation class Service factor Temperature rise		: 3.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by					·	

