DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272907 Three-Phase Catalog #: 07518OT3H365T-W40G Frame : 364/5T Locked rotor time : 25s (cold) 14s (hot) Output : 75 HP (55 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 : 68.4 A Protection degree : IP23 L. R. Amperes : 465 A Cooling method : IC01 - ODP LRC : 6.8x(Code G) Mounting : F-1 No load current : 24.4 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 : 221 ft.lb Approx. weight³ : 811 lb Locked rotor torque : 220 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 16.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1566 lb Power Factor 0.48 0.85 0.73 0.82 Max. compression : 2377 lb Non drive end Drive end

Bearing type : 6314 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 27 g 13 g

Lubricant type : Mobil Polyrex EM

Notes

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



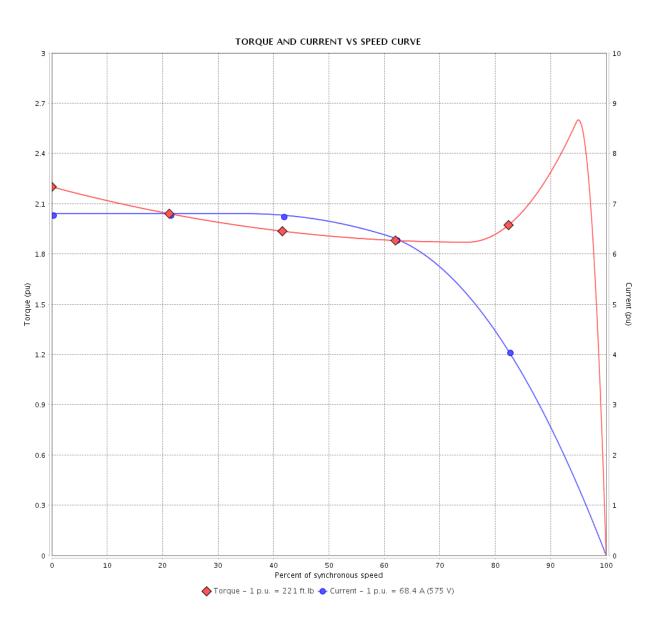
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272907

Catalog #: 07518OT3H365T-W40G



Performance : 575 V 60 Hz 4P Rated current : 68.4 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

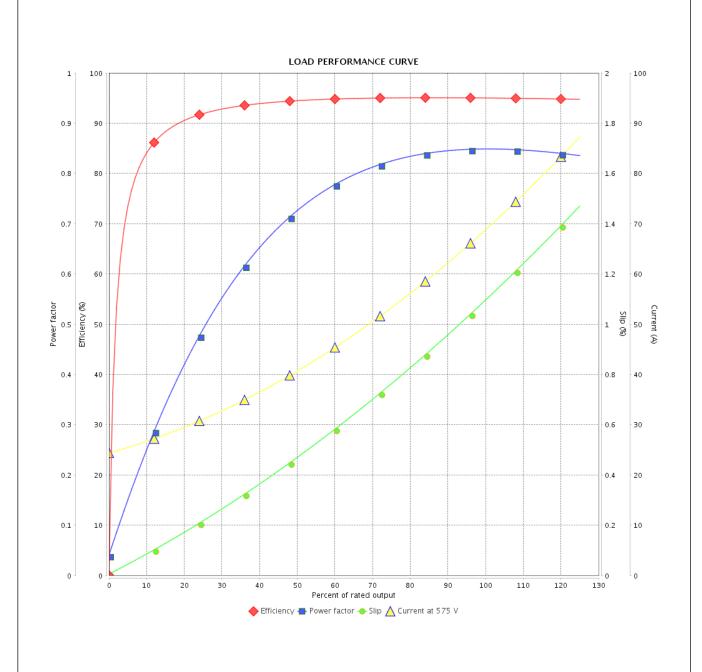


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272907

Three-Phase

Catalog #: 07518OT3H365T-W40G



Performance : 575 V 60 Hz 4P						
Rated current : 68		3.4 A	Moment of inertia (J)		: 16.8 sq.ft.lb	
LRC : 6		8	Duty cycle		: Cont.(S1)	
Rated torque		21 ft.lb	Insulation class		: F	
Locked rotor torque		20 %	Service factor		: 1.25	
Breakdown torque	: 20	60 %	Temperature rise		: 80 K	
Rated speed	: 17	780 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



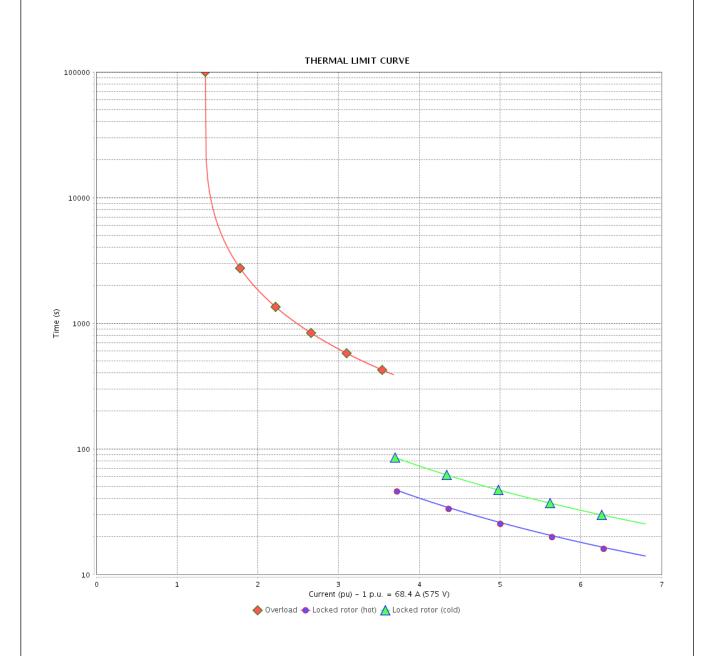
Customer		:				
Draduat line		: W40 NEMA Premium Efficio	2001	Product code :	14272907	
Product line		Three-Phase	ысу	Froduct code .	14272907	
				Catalog # :	07518OT3H3	65T-W40G
Performance	:	575 V 60 Hz 4P				
Rated current		68.4 A	Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC Rated torque		6.8 221 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	220 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		260 % 1780 rpm	Temperati Design	ure rise	: 80 K : B	
			_ 50,9''			
Heating constant						
Cooling constant Rev.	•	Changes Summary		Performed	Checked	Date
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Date	13/04/2022				4/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

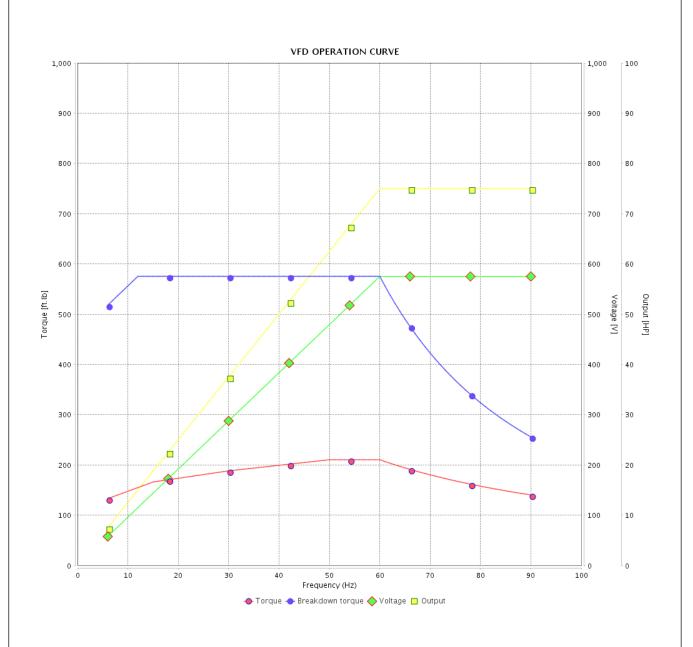
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272907

Catalog #: 07518OT3H365T-W40G

6/6



					,			
Performance	: 57	: 575 V 60 Hz 4P						
Rated current	: 68	3.4 A	Moment of inertia (J)		: 16.8 sq.ft.lb			
LRC	: 6.	8	Duty cycle	Duty cycle				
Rated torque	: 22	21 ft.lb	Insulation	Insulation class				
Locked rotor torqu	ue : 22	20 %	Service fa	Service factor		: 1.25		
Breakdown torque	e : 26	60 %	Temperat	Temperature rise				
Rated speed		780 rpm	Design	Design				
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