DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495151 Three-Phase Catalog #: 02518OT3H284TC-W40 Frame : 284TC Locked rotor time : 64s (cold) 36s (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 : 23.6 A Protection degree : IP23 L. R. Amperes : 149 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 8.80 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight³ : 357 lb Locked rotor torque : 250 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.71 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 93.6 Efficiency (%) 93.0 93.6 Max. traction Power Factor 0.69 0.80 0.84 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h 20000 h
Lubricant amount : 18 g 11 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



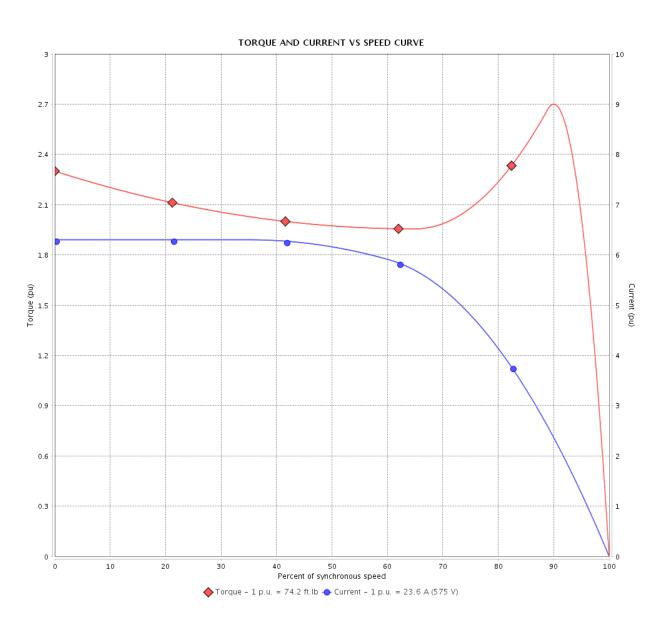
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495151

Catalog #: 02518OT3H284TC-W40



Performance : 575 V 60 Hz 4P Rated current : 23.6 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

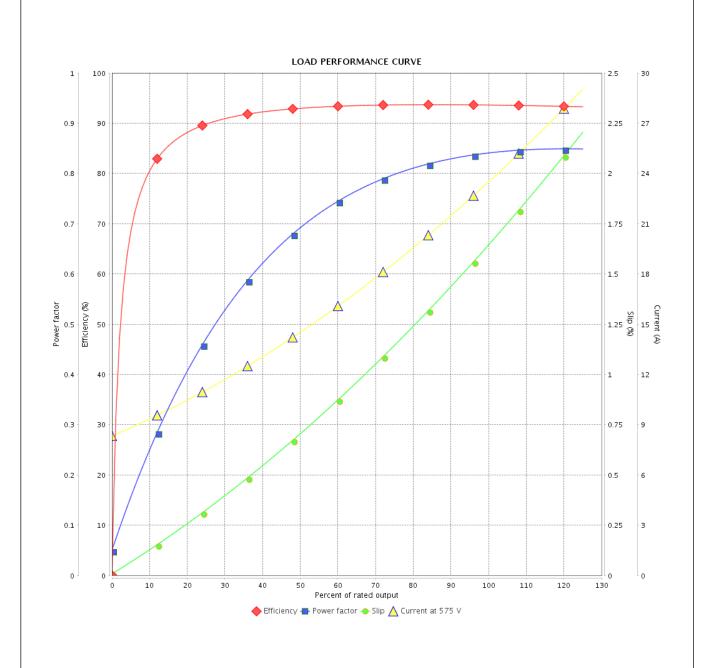


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495151

Three-Phase

Catalog #: 02518OT3H284TC-W40



Performance	: 5	75 V 60 Hz 4P				
Rated current				f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 6	: 6.3 : 74.2 ft.lb : 250 % : 270 % Duty cycle Insulation Service fa Temperat		;	: Cont.(S1) : F : 1.25	
Rated torque	: 7			class		
Locked rotor torque	e : 2			ctor		
Breakdown torque	: 2			ıre rise	: 80 K	
Rated speed	: 1765 rpm		Design	Design		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



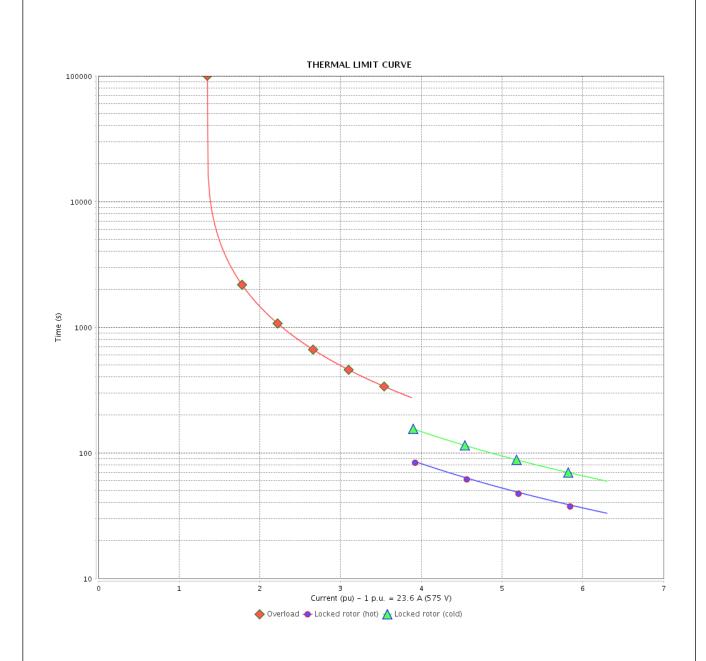
Customer	:					
Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14495151	
	''	nee i nase	(Catalog # :	02518OT3H2	84TC-W40
Performance	: 57	75 V 60 Hz 4P				
Rated current	: 23	3.6 A	Moment of	f inertia (J)	: 3.71 sq.ft.lb	
LRC Rated torque	: 6. : 74	3 4.2 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 25	50 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		70 % 765 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•	3.5			
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 :

Date

13/04/2022

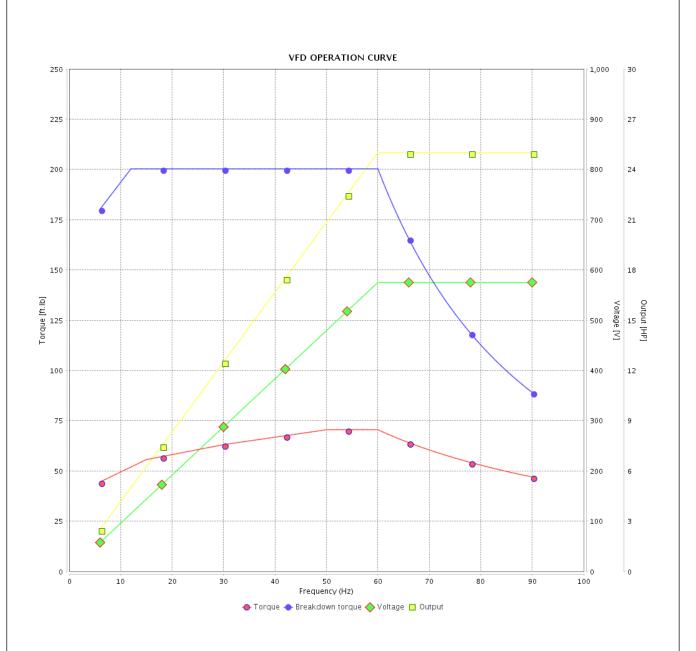
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495151

Catalog #: 02518OT3H284TC-W40

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Performance : 575 V 60 Hz 4P Rated current : 23.6 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

