DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14786493 Three-Phase Catalog #: 01512OT3H284TC-W40 Frame : 284TC Locked rotor time : 28s (cold) 16s (hot) Output : 15 HP (11 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 : 14.7 A Protection degree : IP23 L. R. Amperes : 92.7 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 6.24 A Rotation¹ : Both (CW and CCW) Rated speed : 1180 rpm Noise level² : 59.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 66.8 ft.lb Approx. weight³ : 322 lb Locked rotor torque : 260 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.80 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 90.8 91.0 91.7 Max. traction Power Factor 0.42 0.67 0.77 0.82 Max. compression Non drive end Drive end

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



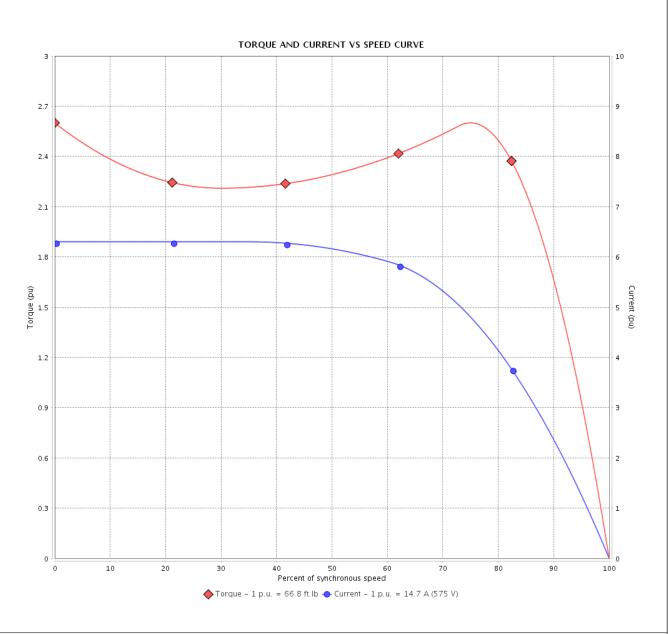
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14786493

Catalog #: 01512OT3H284TC-W40



Performance : 575 V 60 Hz 6P Rated current : 14.7 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 66.8 ft.lb : F Service factor Locked rotor torque : 260 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

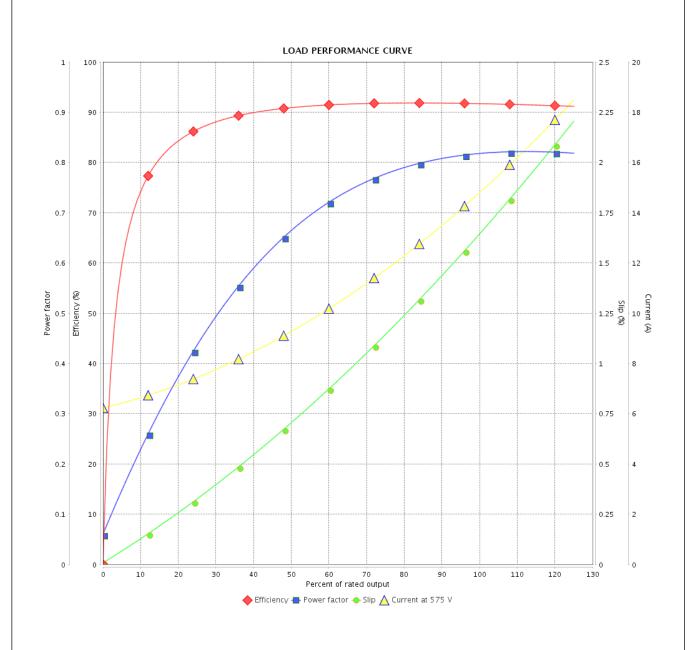


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14786493

Three-Phase

Catalog #: 01512OT3H284TC-W40



Performance	: 575 V 60 Hz 6P					
Rated current	: 14.7 A	Moment of inertia (J)		: 4.80 sq.ft.lb		
LRC	: 6.3	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 66.8 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque	: 260 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 260 %	Temperati	Temperature rise			
Rated speed	: 1180 rpm	Design	Design			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



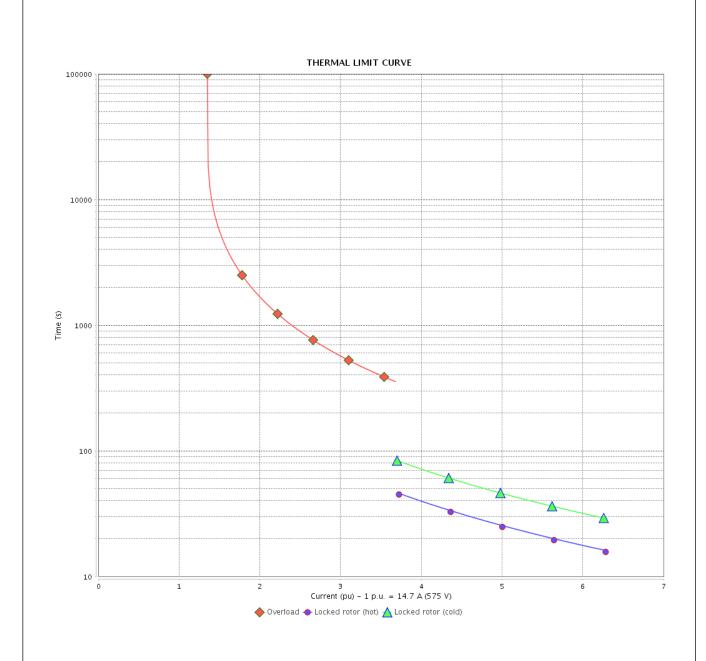
Customer	:					
Product line	: \	W40 NEMA Premium Efficie	ency Product code :		14786493	
	Tł	nree-Phase	(Catalog # :	01512OT3H2	84TC-W40
Performance		75 V 60 Hz 6P	N4.	tt e	400 ""	
Rated current LRC	: 1 ² : 6.	4.7 A 3	Moment of Duty cycle	f inertia (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque	: 66	6.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		60 % 60 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constan	t					
Cooling constant	t		1		1	
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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

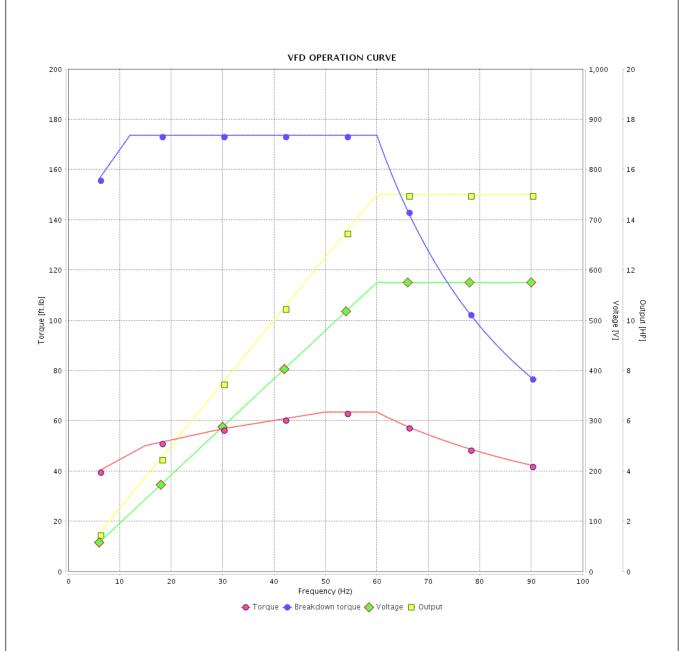
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14786493

Catalog #: 01512OT3H284TC-W40

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Performance : 575 V 60 Hz 6P : 14.7 A Rated current Moment of inertia (J) : 4.80 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 66.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

