DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14497227 Three-Phase Catalog #: 05018OT3G326TS-W40 Frame : 324/6TS Locked rotor time : 19s (cold) 11s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 58.5 A Protection degree : IP23 L. R. Amperes : 369 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 23.2 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 509 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 94.5 Efficiency (%) 94.1 94.5 Max. traction Power Factor 0.44 0.70 0.80 0.84 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3

Bearing type : 6312 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h 20000 h
Lubricant amount : 21 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



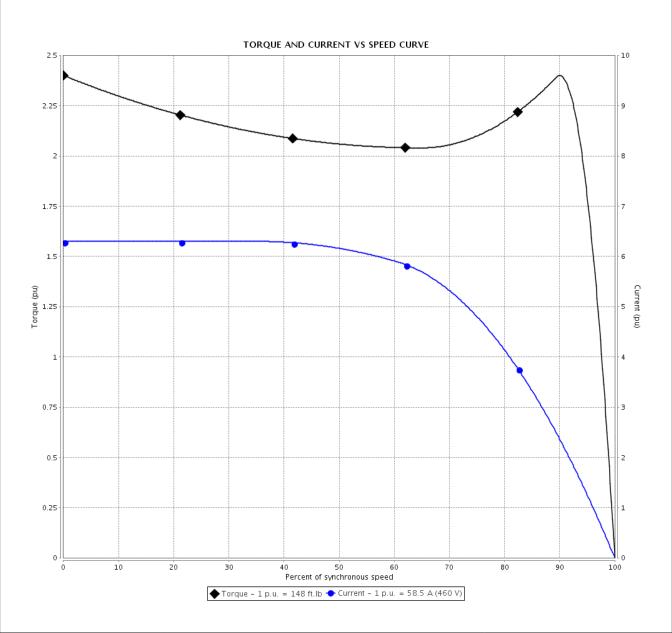
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance : 460 V 60 Hz 4P Rated current : 58.5 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



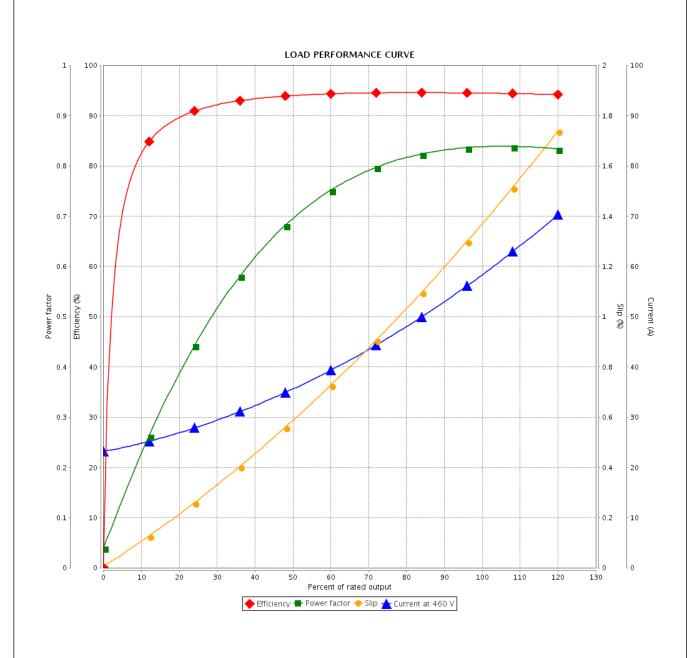
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14497227

Three-Phase

Catalog #: 05018OT3G326TS-W40

3/6



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.5 A : 6.3 : 148 ft.lb : 240 % : 240 % : 1775 rpm	Moment of inc Duty cycle Insulation cla Service factor Temperature Design	ss r	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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10/04/2020

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



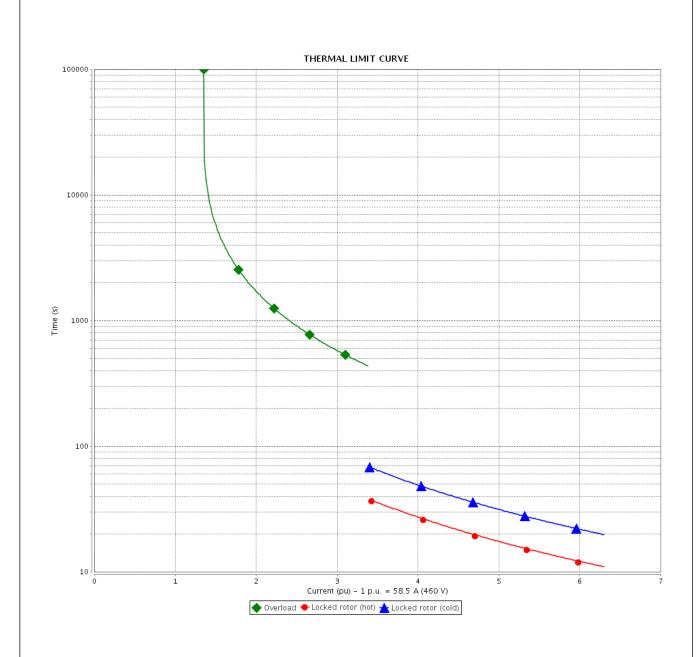
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Product line	: \	W40 NEMA Premium Efficie	ency I	Product code :	14497227	
	Tł	nree-Phase	(Catalog # :	05018OT3G3	26TS-W40
Performance		60 V 60 Hz 4P				
Rated current LRC	: 58 : 6.	3.5 A 3	Moment of Duty cycle	f inertia (J)	: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque	: 14	18 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		10 % 10 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		775 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
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Date	10/04/2020			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

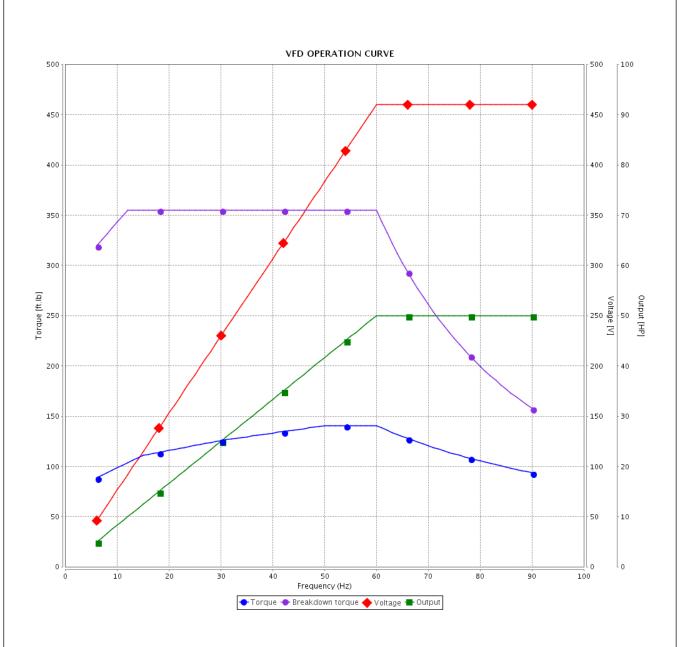
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Product line : W40 NEMA Premium Efficiency

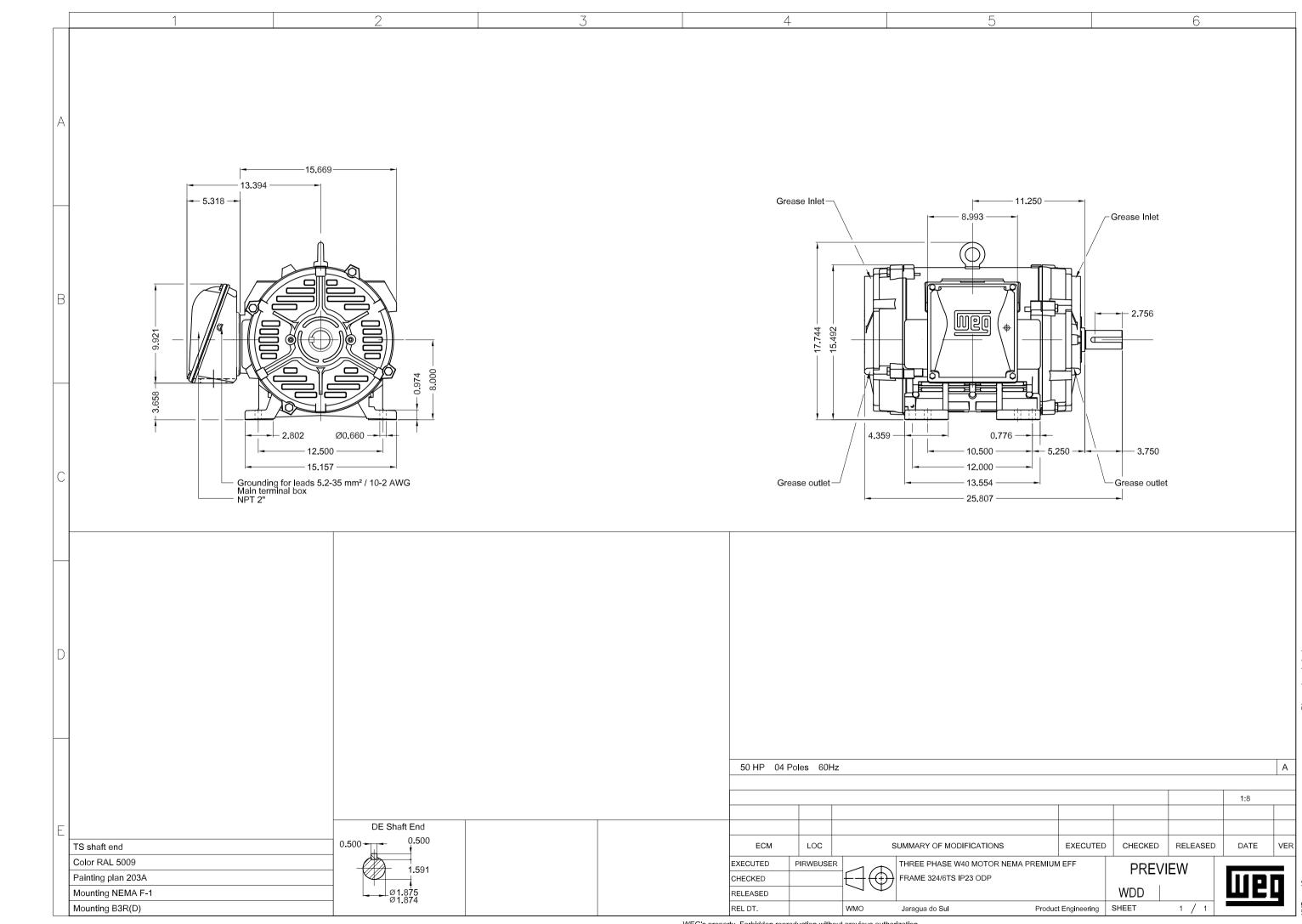
Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance : 460 V 60 Hz 4P Rated current : 58.5 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by









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	Seve	re Du	ty																				
PH	FR	HP(kW)						Hz							RUN				RUN				
V - A -			_					61	0T12 0T10 0T11 0 0T7 0T8 0T9 0			отв	фт9	∳⊺6	φ T4	∳15	фт6	oT4	♦15				
NEMA	NEMA NOM EFF —			%	R	RPM					16 ⊝⊺4 11 ⊝⊺2 L2	○ ○ 15 ○ ○ 13 □ 3	φ16 φ11	φτ4 φτ2 L2	φ13 μ3	φ17 φ11 L1	↑T8	ο19 ο13	φ17 φ11 11	♦18 ♦12 L2	фт 3		
ENCL	ODP	DUTY				INS.	CL.	ΔΤ	K		n .				KLUBERSYNTH BHP 72-								
PF DES -			_	С	ODE		AMB.		📲	KLORFKOLNIE					111 L)I II	12 102						
SF SFA					ALT	1000	m.a.s.l.								Lb	s							