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 Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 509 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 509 lb
Protection degree : IP23 Moment of inertia (J) : 7.08 sq.ft.lb

Design : B Output [HP] 50 40 40 40 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 415 460 400 Rated current [A] 58.5 58.0 56.4 55.7 L. R. Amperes [A] 369 383 389 401 6.3x(Code G) 6.6x(Code G) 6.9x(Code H) 7.2x(Code J) LRC [A] No load current [A] 23.2 22.8 25.2 27.0 Rated speed [RPM] 1775 1475 1475 1480 Slip [%] 1.39 1.67 1.67 1.33 Rated torque [ft.lb] 148 142 142 142 Locked rotor torque [%] 240 220 250 270 Breakdown torque [%] 240 240 270 300 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 19s (cold) 11s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 66.0 dB(A) 25% 94.0 92.9 92.9 92.9 50% 94.1 93.1 93.1 93.1 Efficiency (%) 75% 94.5 93.5 93.5 93.5 94.5 100% 93.6 93.6 93.6 0.44 0.37 25% 0.44 0.40 50% 0.70 0.70 0.66 0.62 Power Factor 75% 0.74 0.80 0.80 0.77

Drive end
6312 Z C3Non drive end
6211 Z C3Foundation loads
Max. traction

0.84

Sealing : Without Without Max. compression Bearing Seal Bearing Seal

0.84

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 11 g Lubricant type : Mobil Polyrex EM

100%

Notes

Bearing 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.

0.82

0.80

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage



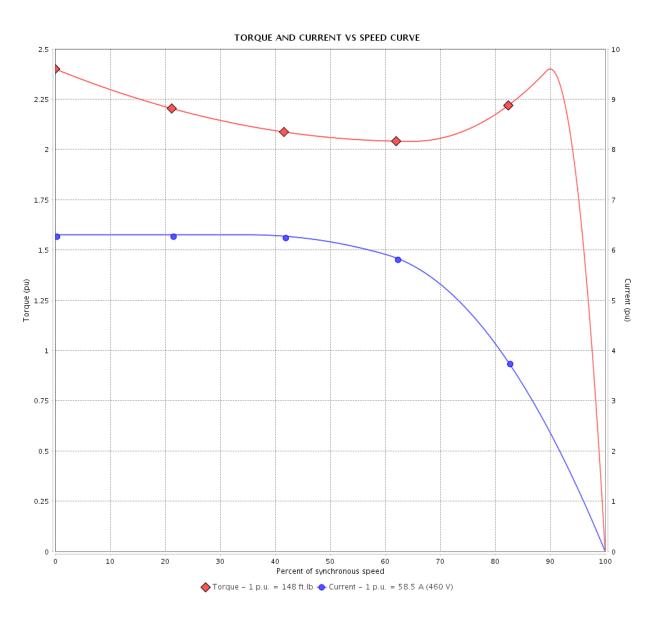
Customer :

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	12/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage



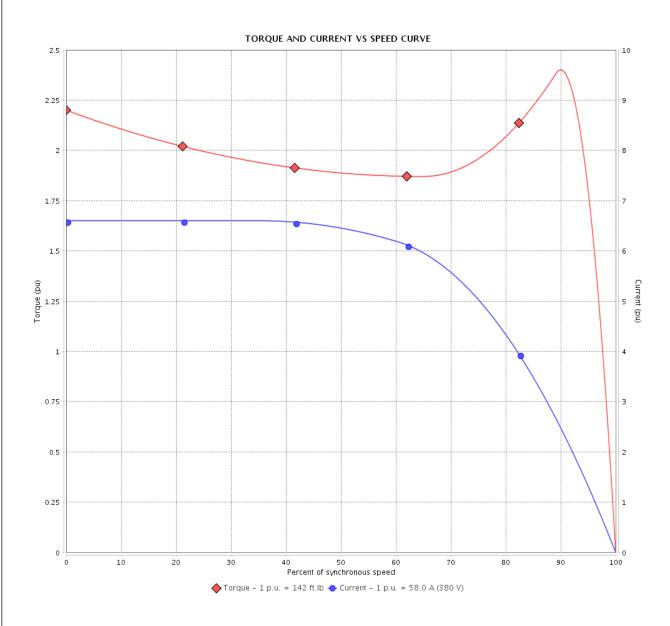
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 58.0 A	Moment of inertia (J)	: 7.08 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	· 21s (cold) 12s (hot)	-	<u> </u>	

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



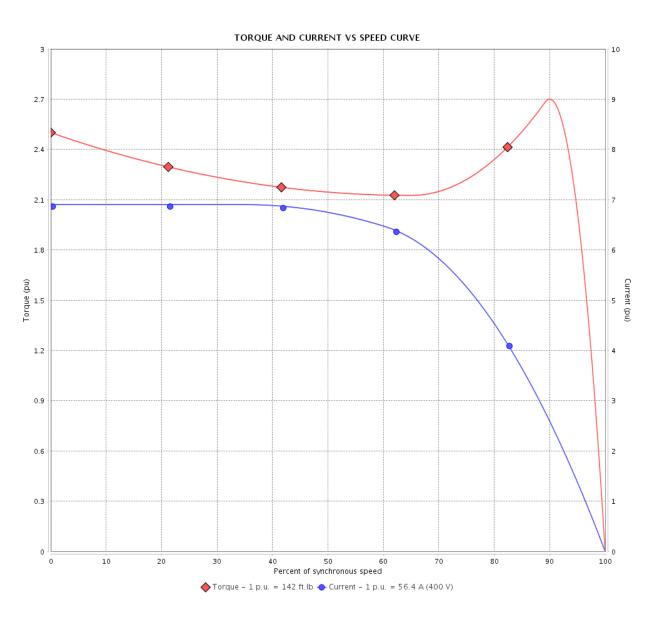
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 56.4 A	Moment of inertia (J)	: 7.08 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Nateu speeu	. 1 4 751piii	Design	. u	

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 21	

Three Phase Induction Motor - Squirrel Cage



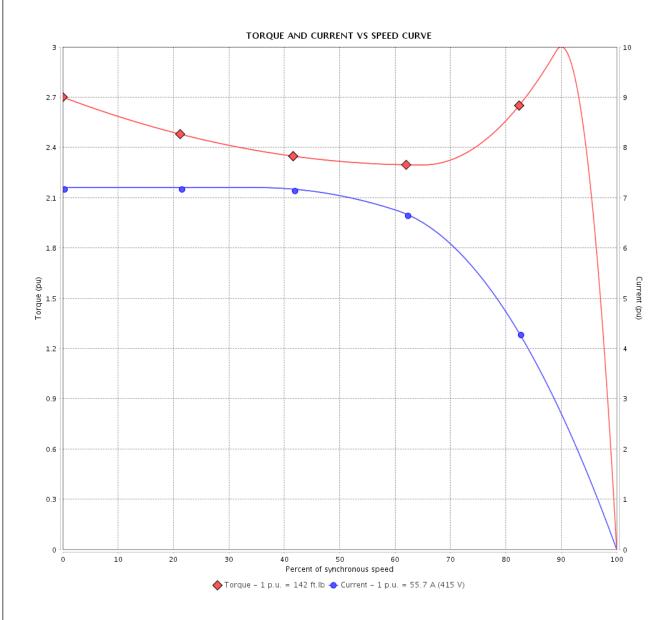
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 55.7 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1480 rpm Design

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

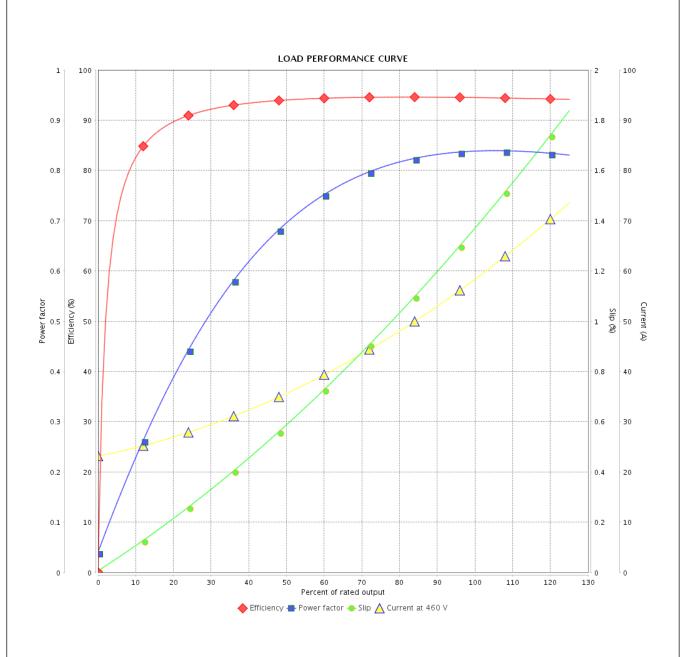
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40

6/21



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

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



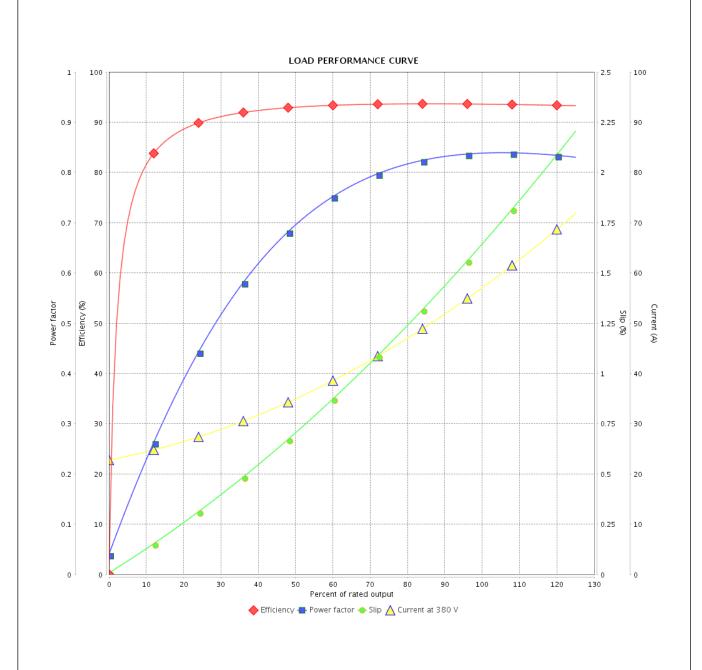
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14497227

Three-Phase

Catalog #: 05018OT3G326TS-W40

7/21



Rated current	: 58.0 A				
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.6 : 142 ft.lb : 220 % : 240 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Deolgii	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

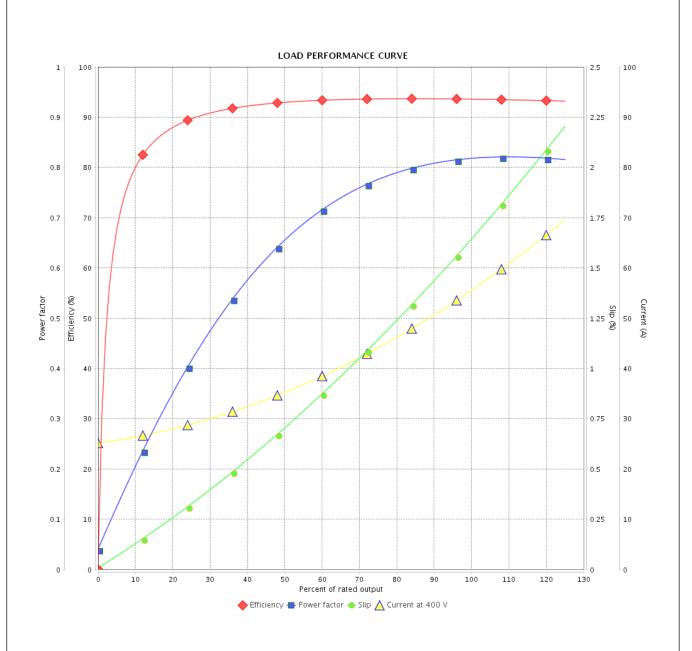
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40

8 / 21



Performance : 400 V 50 Hz 4P IE3 Rated current : 56.4 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class Rated torque : 142 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

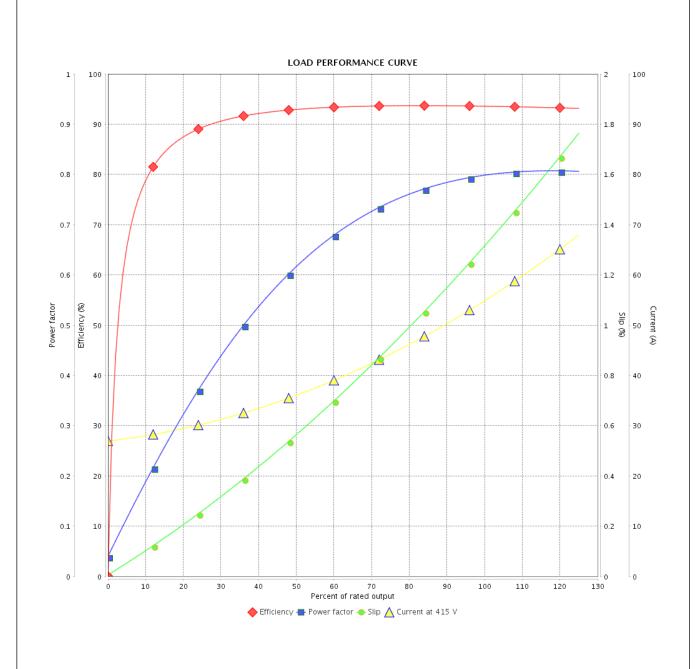


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14497227

Three-Phase

Catalog #: 05018OT3G326TS-W40



Performance	: •	415 V 50 Hz 4P IE3				
Rated current	:	55.7 A	Moment o	f inertia (J)	: 7.08 sq.ft.lb	
LRC	: '	7.2	Duty cycle)	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie ::	270 %	Service fa	ctor	: 1.00	
Breakdown torque	::	: 300 % Temper		ıre rise	: 80 K	
Rated speed	:	1480 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

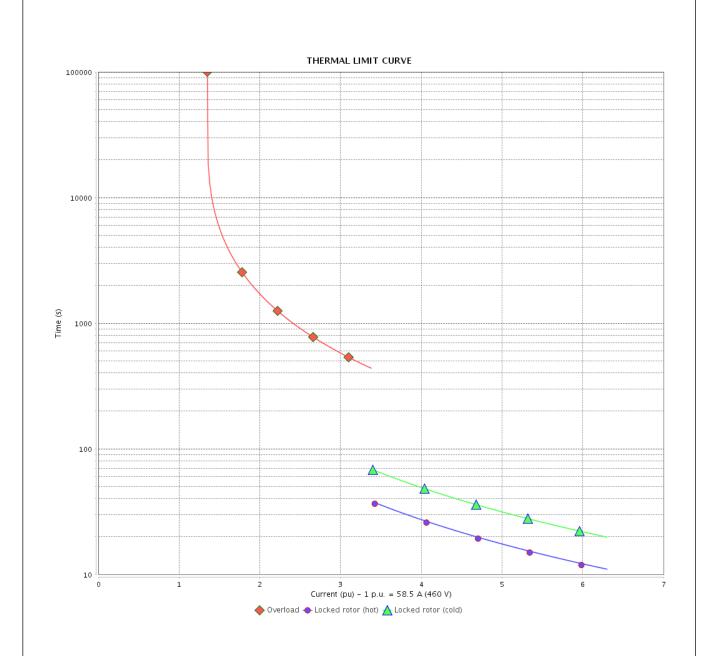


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14497227 05018OT3G3	26TS-W40
Performance	:	: 460 V 60 Hz 4P				
Rated current LRC		: 58.5 A : 6.3	Duty cycle		: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 148 ft.lb : 240 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue :	: 240 %	Temperati		: 80 K	
Rated speed		: 1775 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
INEV.		Changes Summary		i chomied	OHEUNEU	Dale
Performed by						
Checked by					Page	Revision
Date	12/04/2022				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	P	erformed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				11 / 21	

Three Phase Induction Motor - Squirrel Cage

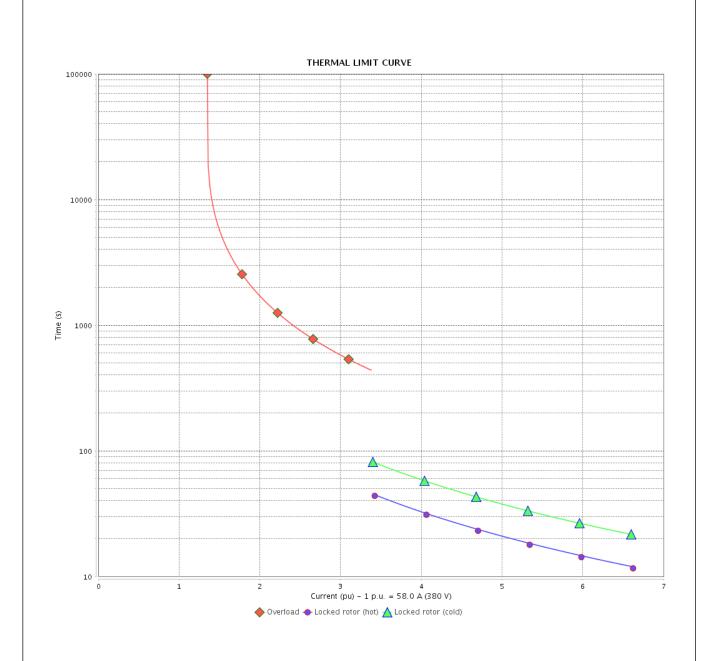


Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14497227	
		(Catalog # :	05018OT3G3	326TS-W40
Performance	: 380 V 50 Hz 4P IE3	T			
LRC Rated torque Locked rotor torque Breakdown torque	: 58.0 A : 6.6 : 142 ft.lb : 220 % : 240 % : 1475 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•				
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
NOV.	Changes Sumillary		renomea	CHECKEG	Dale
Performed by Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

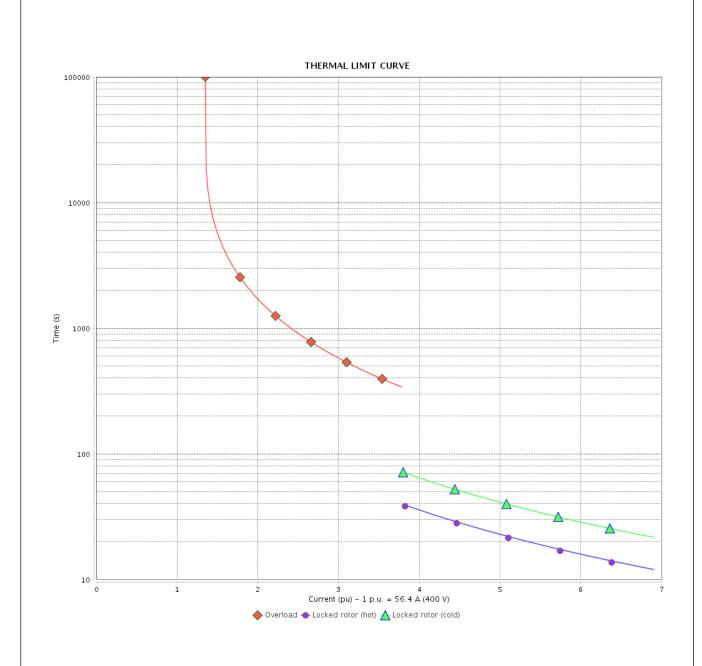


Customer	:					
Product line	: T	W40 NEMA Premium Efficion hree-Phase		Product code :	14497227 05018OT3G3	26TS-W40
Performance		00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 1 ue : 2 e : 2	6.4 A .9 42 ft.lb 50 % 70 % 475 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	,					
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
1764.		Changes Summary		i enomieu	OHECKEU	Dale
Performed by Checked by	12/04/2022	_			Page 14 / 21	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

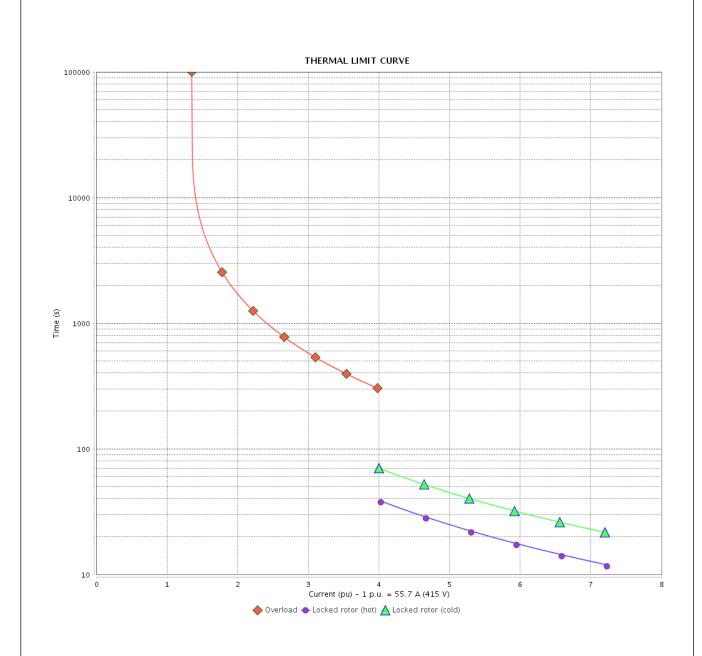


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14497227 05018OT3G3	26TS-W40
Performance		: 415 V 50 Hz 4P IE3	Mamanta	finantia (1)	. 7 00 as fills	
Rated current LRC		: 55.7 A : 7.2	Duty cycle		: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque		: 142 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 270 % : 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Commercial		Dorform	Charles -	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				16 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Revision

Page

18/21

Customer :

Checked by

Date

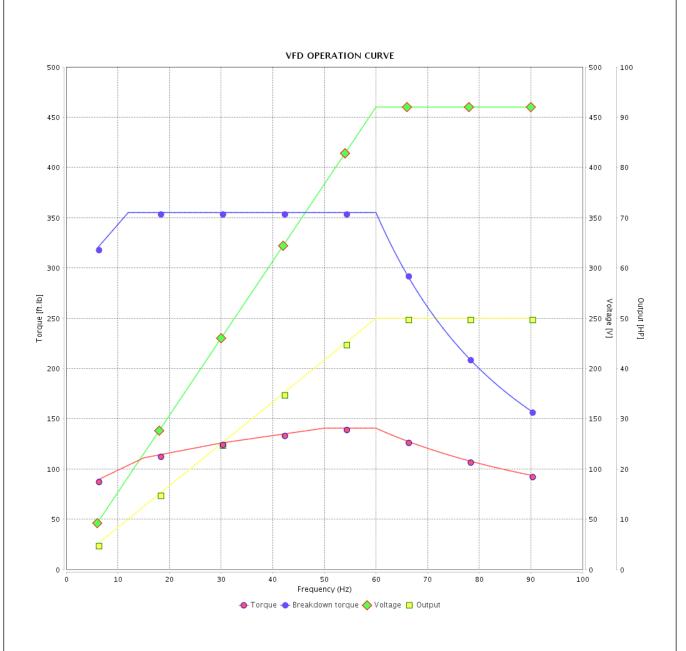
12/04/2022

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 Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

12/04/2022

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

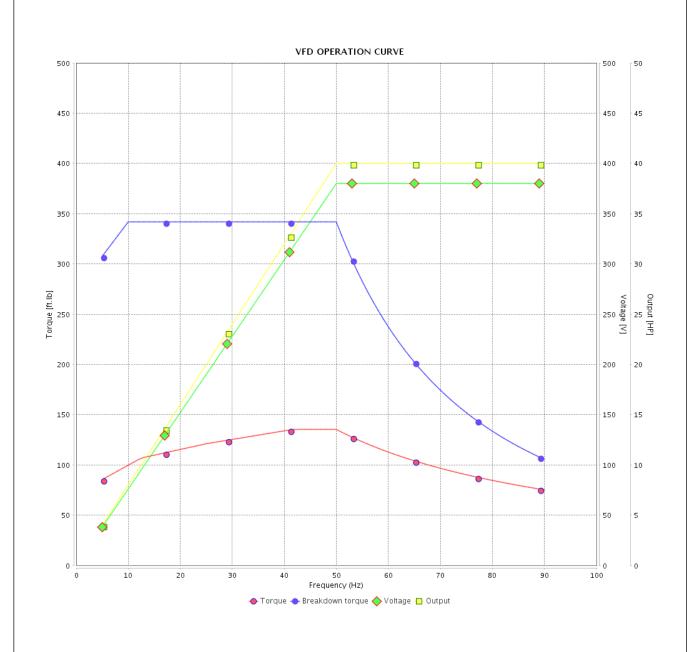
Product code: 14497227

Catalog #: 05018OT3G326TS-W40

Page

19/21

Revision



Performance	: 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.0 A : 6.6 : 142 ft.lb : 220 % : 240 % : 1475 rpm	: 6.6 Duty cycle : Cont.(S1) : 142 ft.lb Insulation class : F : 220 % Service factor : 1.00 : 240 % Temperature rise : 80 K		: 1.00 : 80 K	,	
Rev.	Changes Summary	I	Performed	Checked	Date	
Performed by						

Three Phase Induction Motor - Squirrel Cage



Customer :

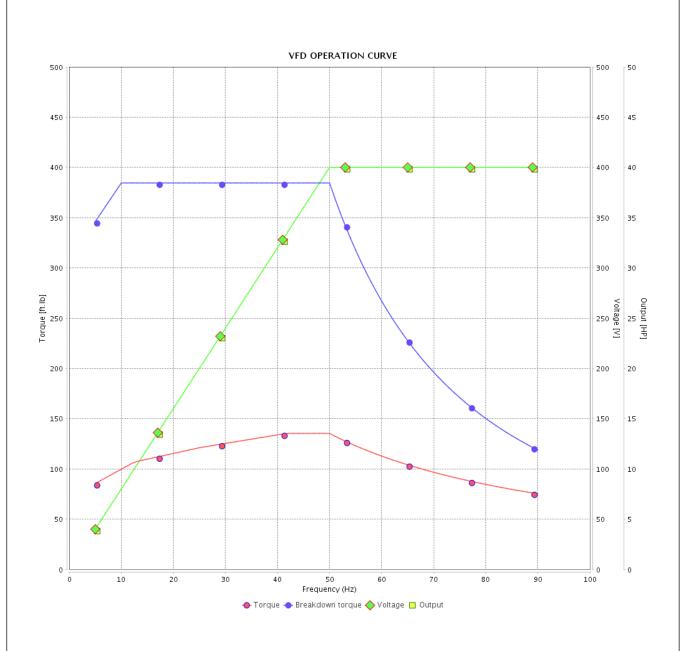
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40

20 / 21



Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 6.9 : 142 ft.lb : 250 % : 270 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) ft.lb Insulation class : F Service factor : 1.00 Temperature rise : 80 K		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



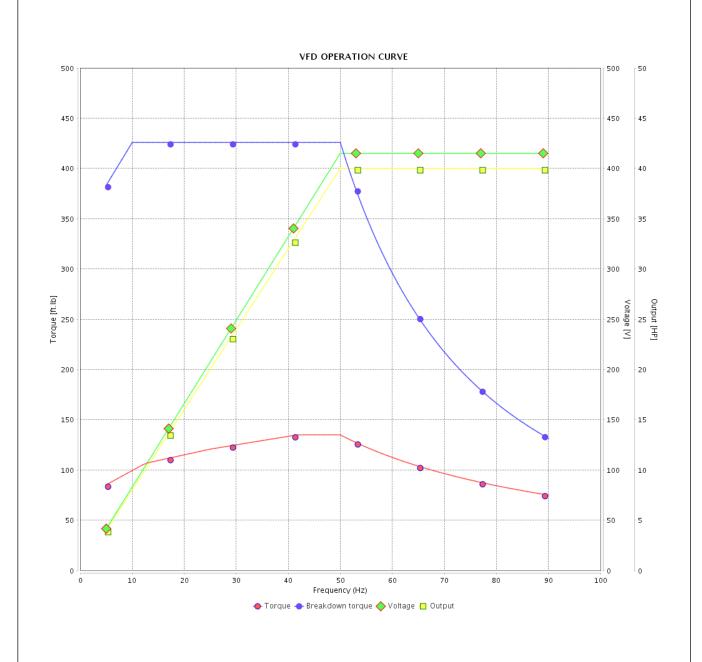
Customer

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 14497227

Catalog #: 05018OT3G326TS-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 5	5.7 A	A Moment of inertia (J)		: 7.08 sq.ft.lb	
LRC	: 7	.2	Duty cycle	!	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				21 / 21	

