DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.86

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22

Frame : 445/7TSC Cooling method : IC411 - TEFC

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 : 2559 lb

Protection degree : IP55 | Moment of inertia (J) : 89.6 sq.ft.lb

Protection degre	e	: IP55		Mome	nt of inertia (J)	: 8	9.6 sq.ft.lb	
Design		: B						
Output [HP]		250	200	200	200	250	250	250
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		281	273	263	256	340	322	314
L. R. Amperes [A]		1827	1665	1788	1894	1734	1835	1915
LRC [A]		6.5x(Code	6.1x(Code F)	6.8x(Code	7.4x(Code H)	5.1x(Code E)	5.7x(Code F)	6.1x(Code F)
		G)		G)				
No load current [A	.]	90.0	85.0	90.0	95.0	85.0	90.0	95.0
Rated speed [RPN	Л]	1780	1480	1485	1485	1475	1480	1480
Slip [%]		1.11	1.33	1.00	1.00	1.67	1.33	1.33
Rated torque [ft.lb]]	738	710	707	707	890	887	887
Locked rotor torqu	ie [%]	229	200	260	290	180	200	220
Breakdown torque	: [%]	240	240	270	300	190	210	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		27s (cold)	36s (cold)	32s (cold)	28s (cold)	18s (cold)	18s (cold)	18s (cold)
		15s (hot)	20s (hot)	18s (hot)	16s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²		73.0 dB(A)						
	25%	95.7	94.8	95.0	95.0	95.6	95.3	95.6
Efficiency (%)	50%	95.8	95.0	95.1	95.1	95.4	95.4	95.4
Efficiency (70)	75%	96.2	95.8	95.8	95.8	95.4	95.4	95.8
	100%	96.2	95.8	95.8	95.8	95.0	95.4	95.4
	25%	0.50	0.52	0.49	0.46	0.57	0.54	0.51
Power Factor	50%	0.75	0.77	0.74	0.72	0.80	0.77	0.75
FOWEI FACIOI	75%	0.83	0.84	0.83	0.81	0.86	0.84	0.83

Drive end Non drive end Foundation loads

0.86

0.85

Bearing type : 6314 C3 6314 C3 Max. traction : 4159 lb Sealing : WSeal WSeal Max. compression : 6718 lb

12000 h

0.87

Lubricant amount : 27 g 27 g

0.86

12000 h

100%

Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

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.

0.87

0.87

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Three Phase Induction Motor - Squirrel Cage

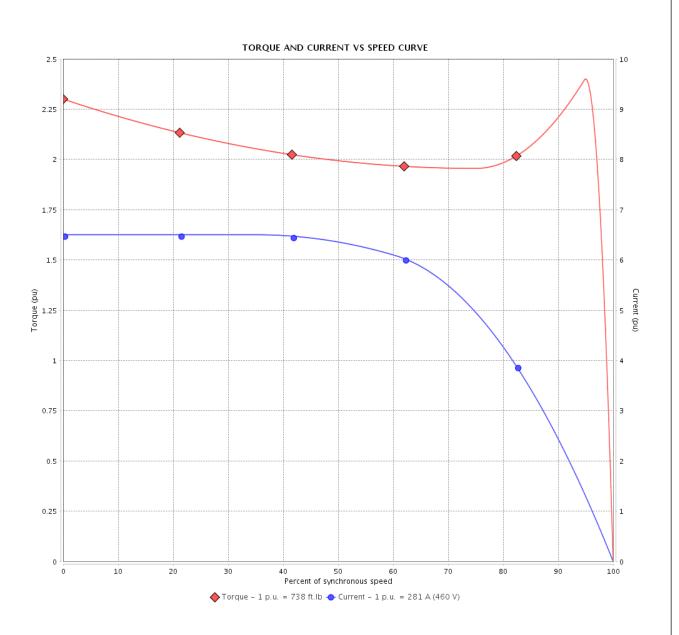


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 25018ET3G447TSC-W22

12274697



Performance : 460 V 60 Hz 4P Rated current : 281 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 738 ft.lb Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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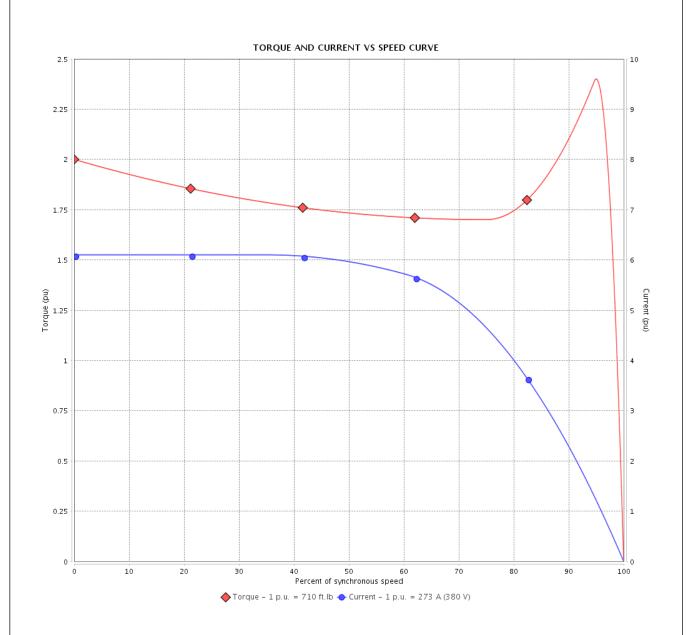


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 273 A	Moment of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 710 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (bot)	I		

Locked rotor time : 36s (cold) 20s (hot)

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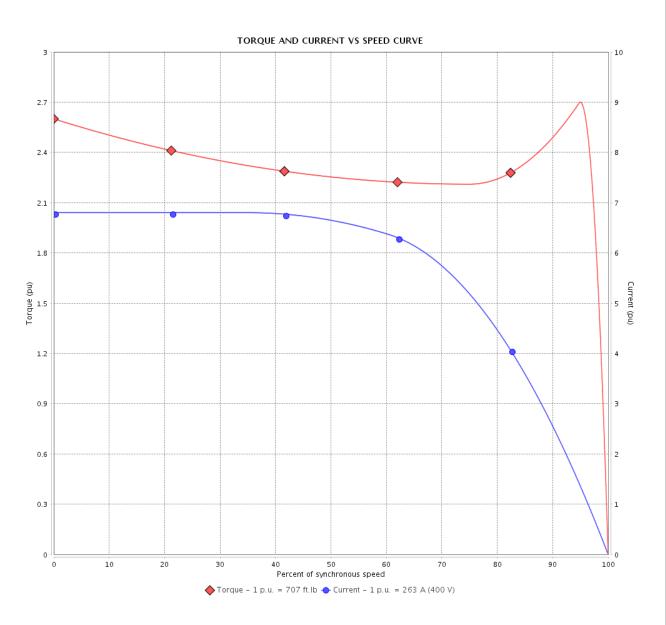


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 25018ET3G447TSC-W22

12274697



Performance : 400 V 50 Hz 4P IE3 Rated current : 263 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 707 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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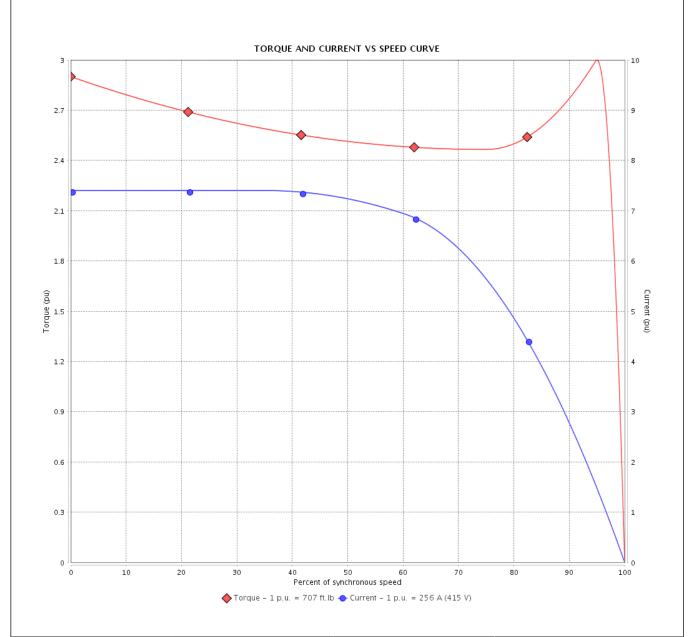
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12274697

Catalog #: 25018ET3G447TSC-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 256 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 707 ft.lb Insulation class Rated torque : F : 290 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1485 rpm Design

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

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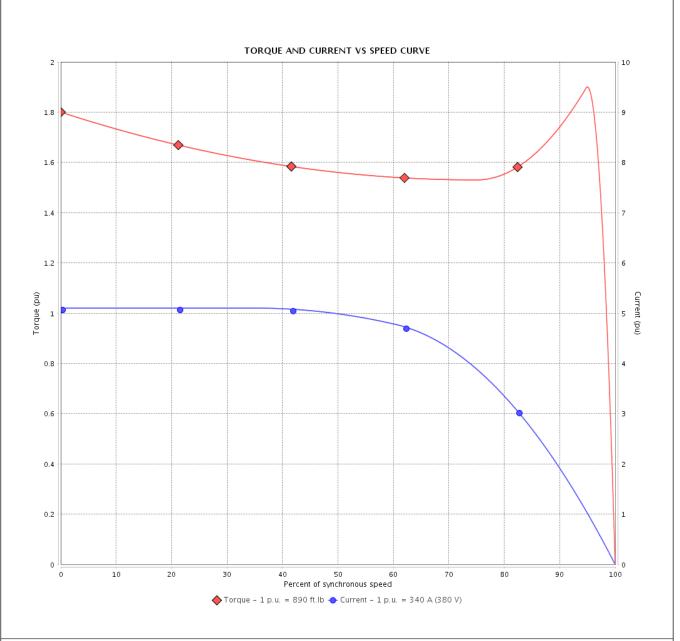
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12274697

Catalog #: 25018ET3G447TSC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 340 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 890 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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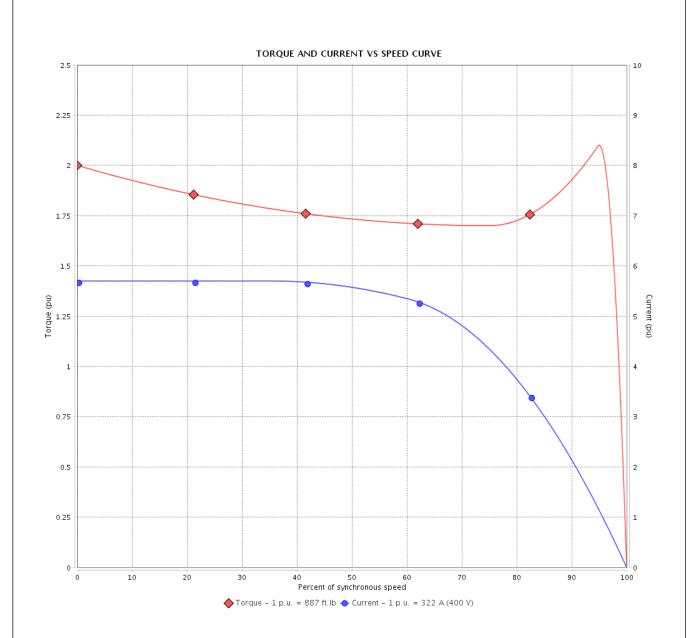
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Customer Product line : NEMA Premium Efficiency Three-Product code: 12274697

Catalog #:



Performance : 400 V 50 Hz 4P IE2 Rated current : 322 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 1480 rpm Design : B Locked rotor time : 18s (cold) 10s (hot)

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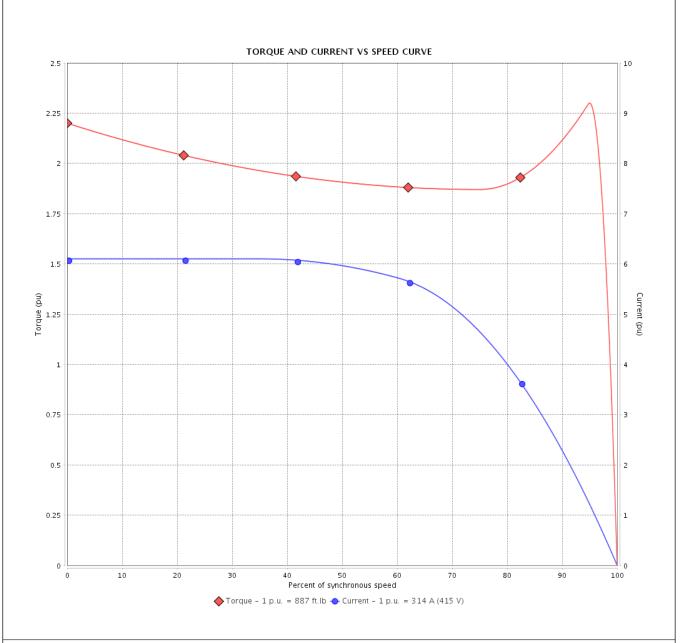
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12274697

Catalog #: 25018ET3G447TSC-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 314 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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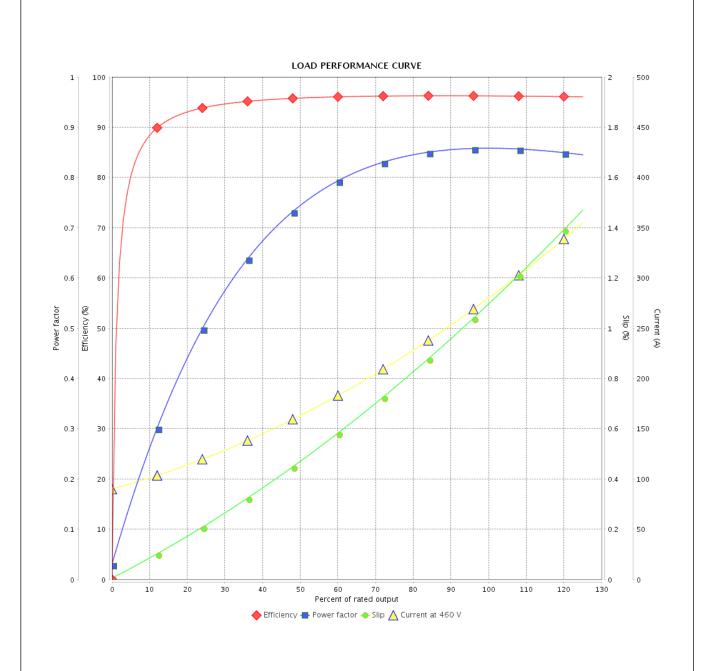


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 2	81 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 6	5.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	'38 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	29 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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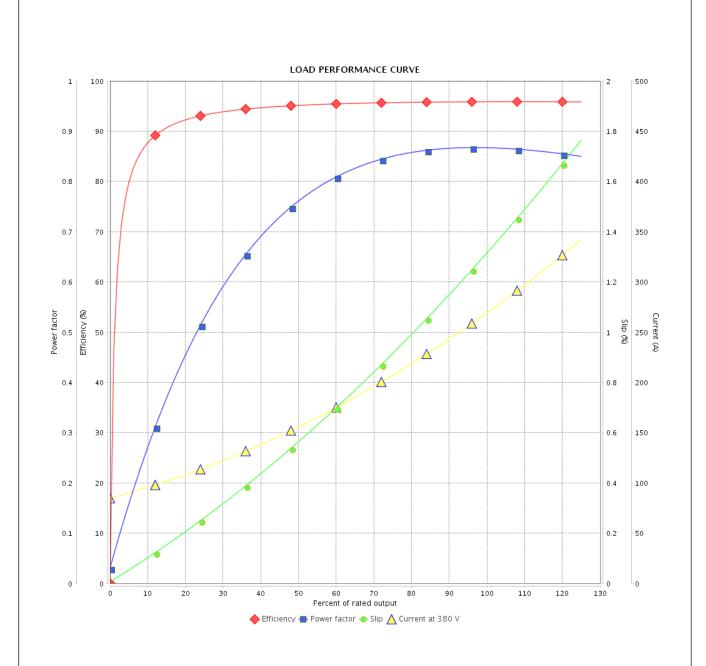
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 273 A : 6.1 : 710 ft.lb : 200 % : 240 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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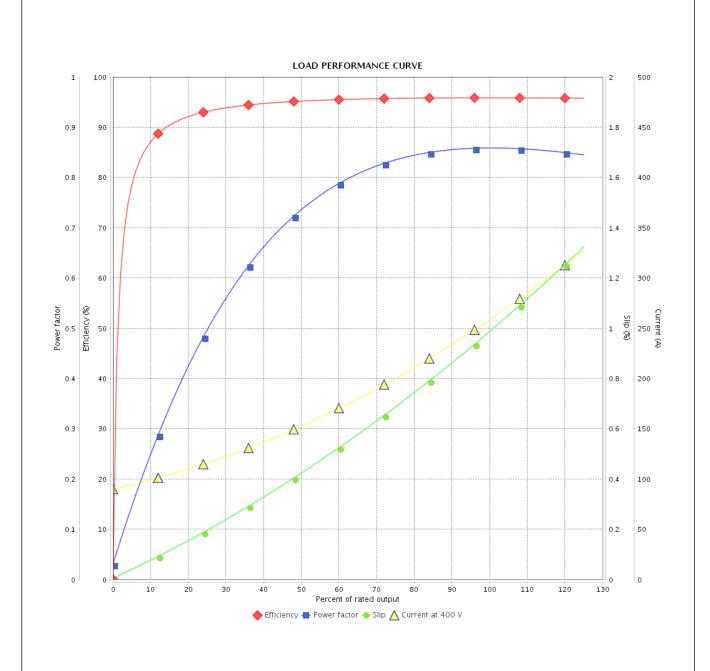


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Product line : NEMA Premium Efficiency Three- Product code : 12274697

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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current		Moment of ine		` '	: 89.6 sq.ft.lb	
LRC	: 6.	· ·	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		07 ft.lb 60 %	Insulation class Service factor		: F : 1.15	
Breakdown torque : 270 %		70 %	Temperature rise		: 80 K	
Rated speed	: 14	485 rpm	Design		: B	
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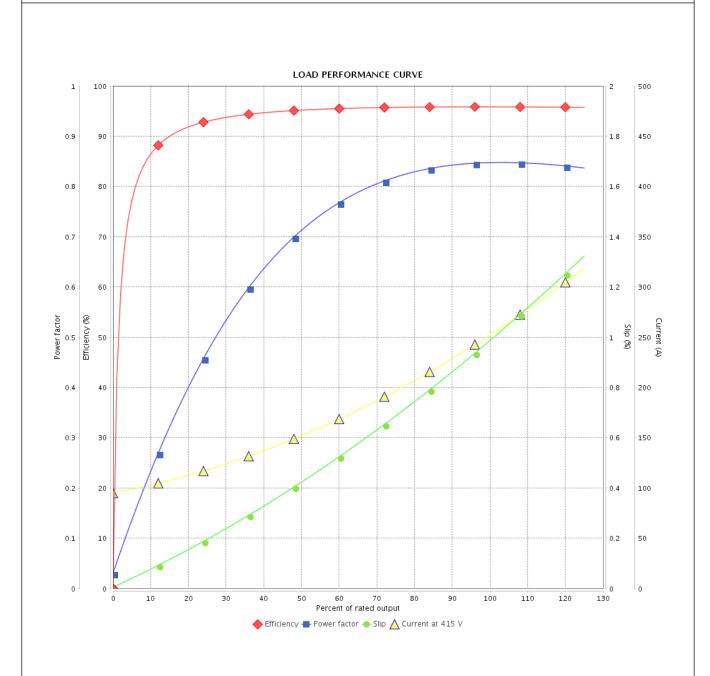
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Phase

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Darformana	· 445 V 50 H= 4D IF2				
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 256 A	Moment of inertia (J)		: 89.6 sq.ft.lb	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 707 ft.lb	Insulation class		: F	
Locked rotor torque	: 290 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise Design		: 80 K	
Rated speed	: 1485 rpm			: B	
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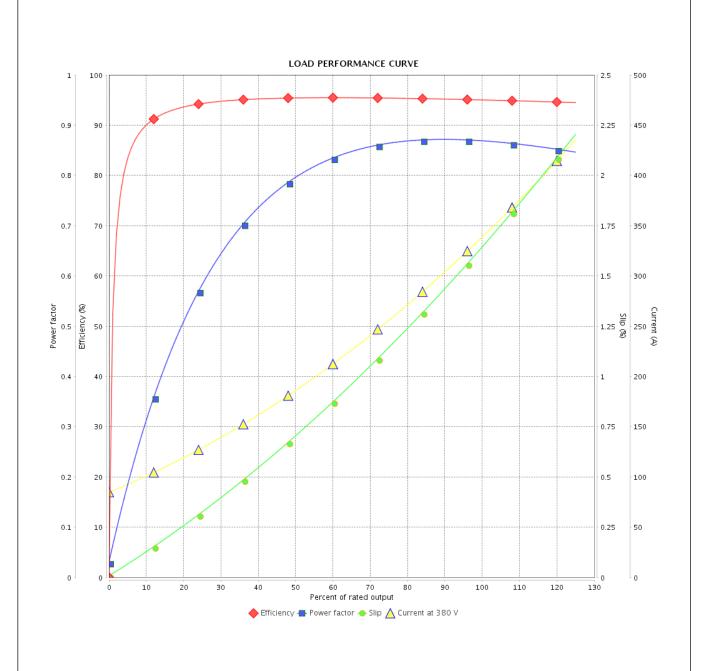


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22



Performance	ice : 380 V 50 Hz 4P IE1					
Rated current : 340 A		Moment o	f inertia (J)	: 89.6 sq.ft.lb		
LRC	: 5	5.1	Duty cycle	:	: Cont.(S1)	
Rated torque	: 8	390 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	:1	: 190 % Tem : 1475 rpm Des		ıre rise	: 105 K	
Rated speed	: 1				: B	
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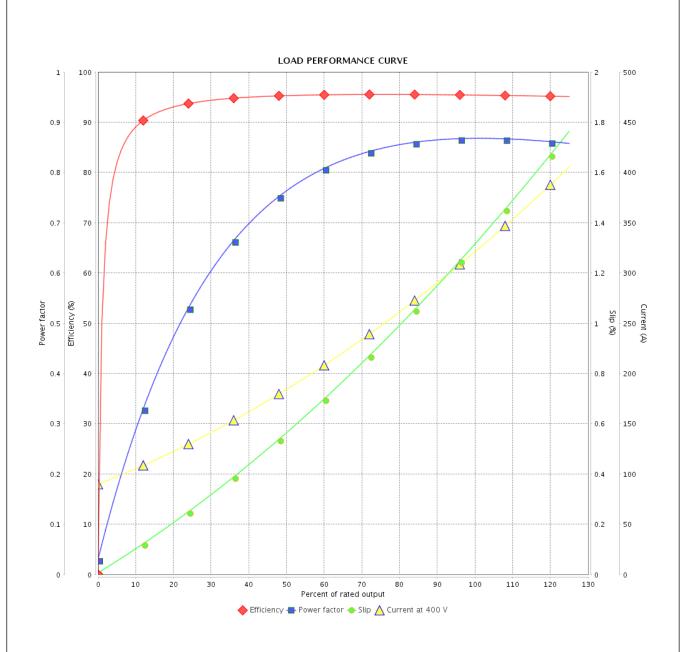
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Performance : 400 V 50 Hz 4P IE2 Rated current : 322 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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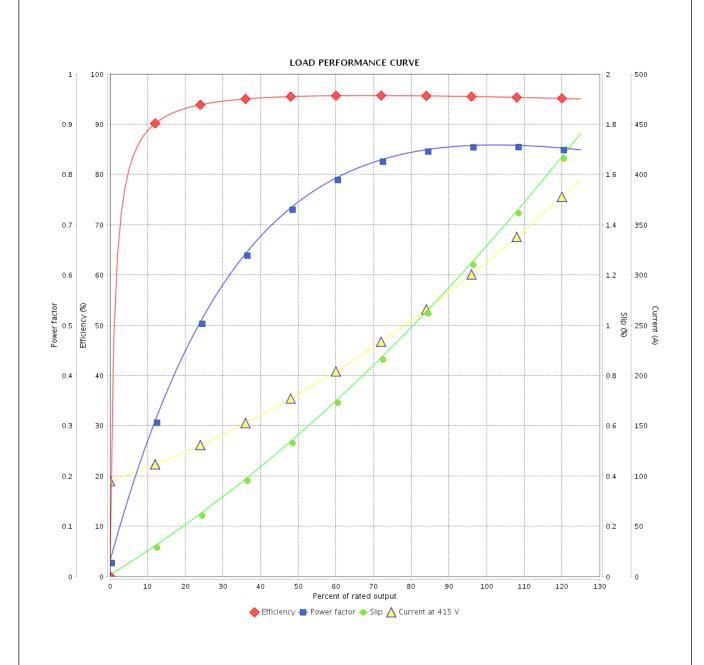
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Phase

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 314 A : 6.1 : 887 ft.lb : 220 % : 229 % : 1480 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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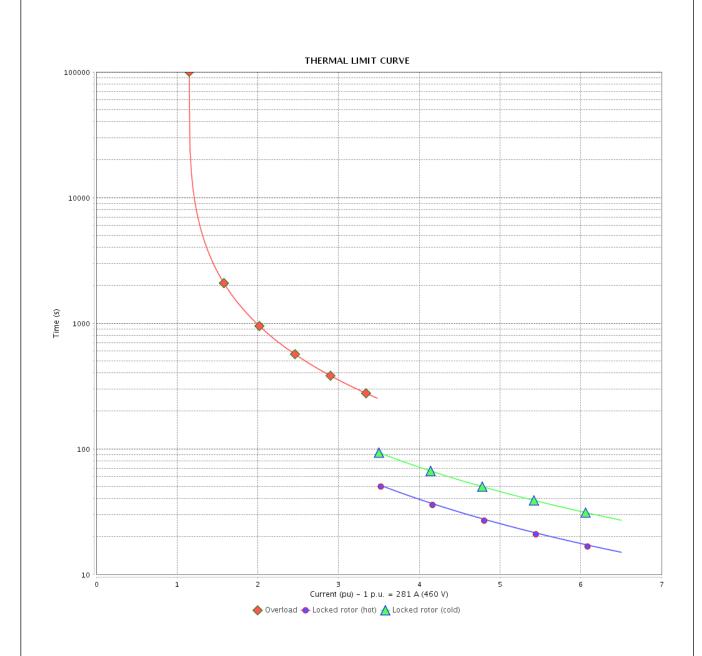


Customer	:				
Product line	: NEMA Premium Efficiency Thase		Product code :	12274697	47700 W00
			Catalog # :	25018ET3G4	47TSC-W22
Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 281 A : 6.5 : 738 ft.lb : 229 % : 240 % : 1780 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	'				
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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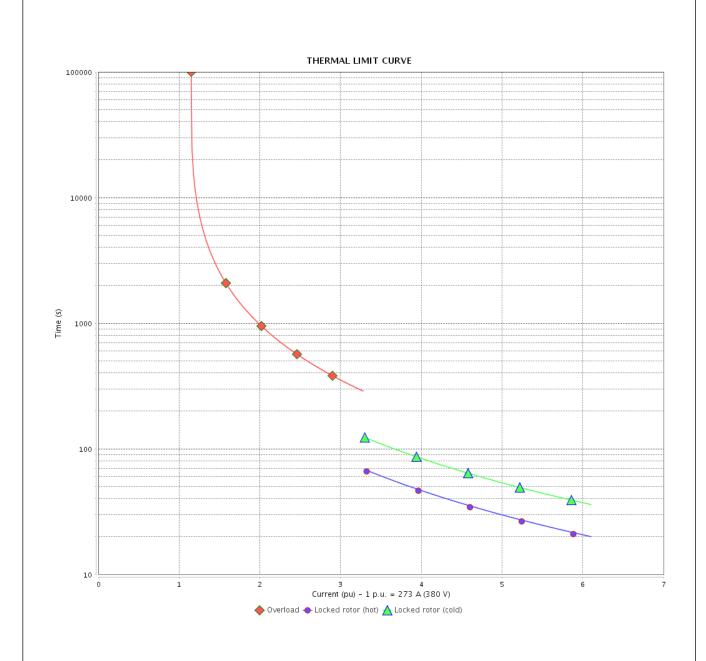


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12274697 25018ET3G44	17TSC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 273 A : 6.1	Moment of Duty cycle	of inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 710 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t	Oh an an an O		Doute !	Ob a al.	D-4
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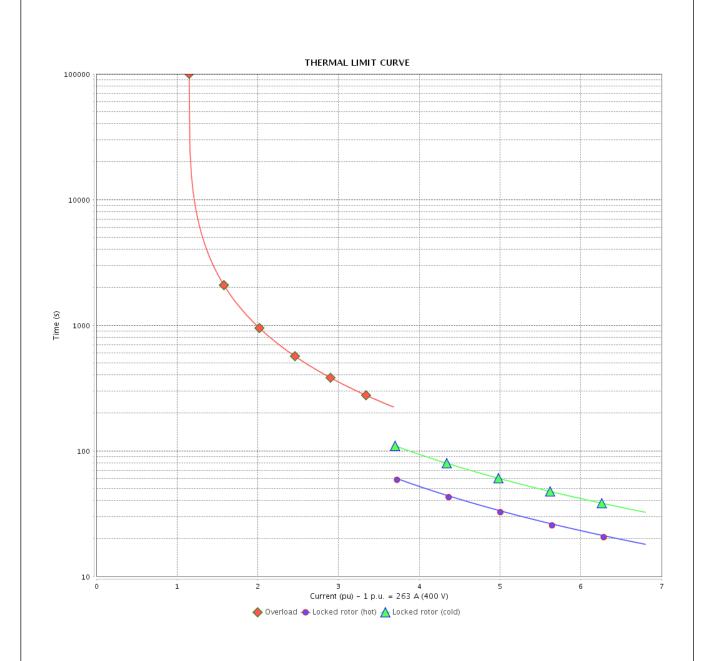


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	12274697 25018ET3G4	47TSC-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 263 A	Moment o	of inertia (J)	: 89.6 sq.ft.lb	
LRC Rated torque	: 6.8 : 707 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 260 % : 270 %	Service fa Temperate		: 1.15 : 80 K	
Rated speed	: 1485 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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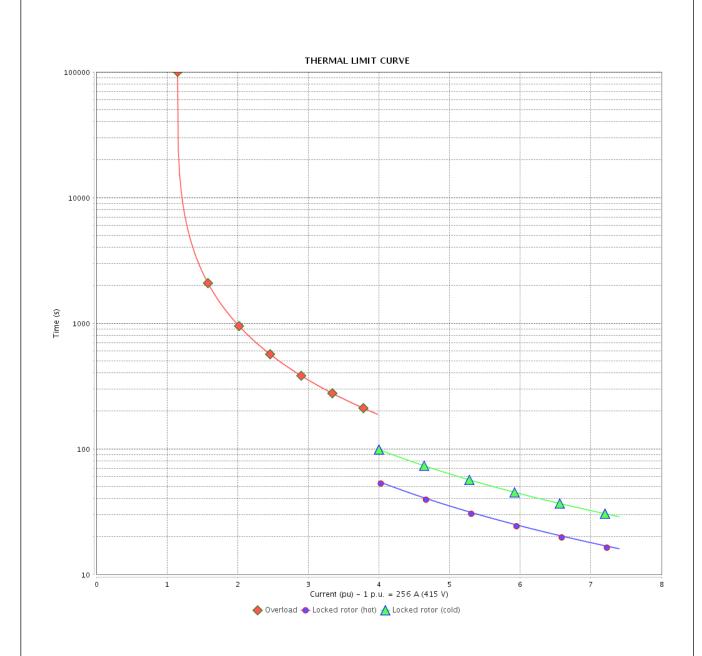


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12274697 25018ET3G44	17TSC-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 256 A : 7.4	Moment o	of inertia (J)	: 89.6 sq.ft.lb	
Rated torque		: 707 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 290 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 300 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant	t					
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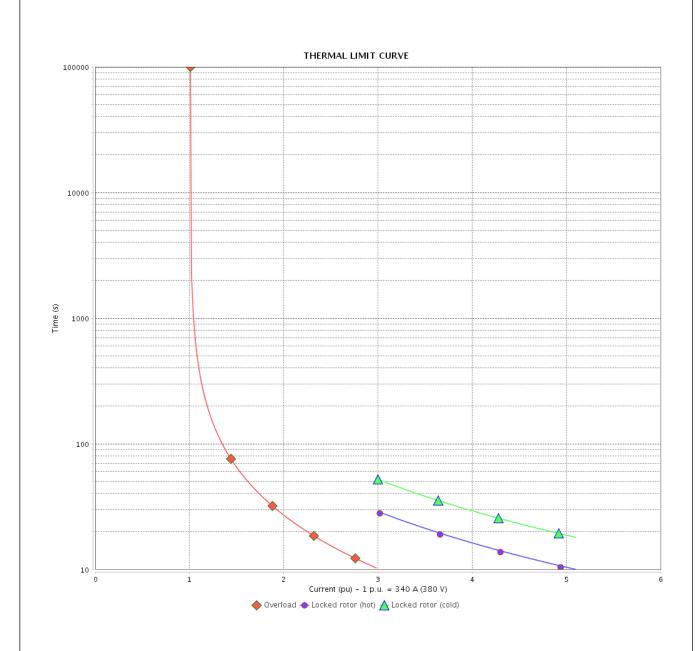


Customer	:			
Product line	: NEMA Premium Efficiency Phase		12274697	
		Catalog #:	25018ET3G4	47TSC-W22
Performance	: 380 V 50 Hz 4P IE1	1		
Rated current	: 340 A : 5.1	Moment of inertia (J)	: 89.6 sq.ft.lb	
LRC Rated torque	: 5.1 : 890 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 190 % : 1475 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant		1		
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Three Phase Induction Motor - Squirrel Cage



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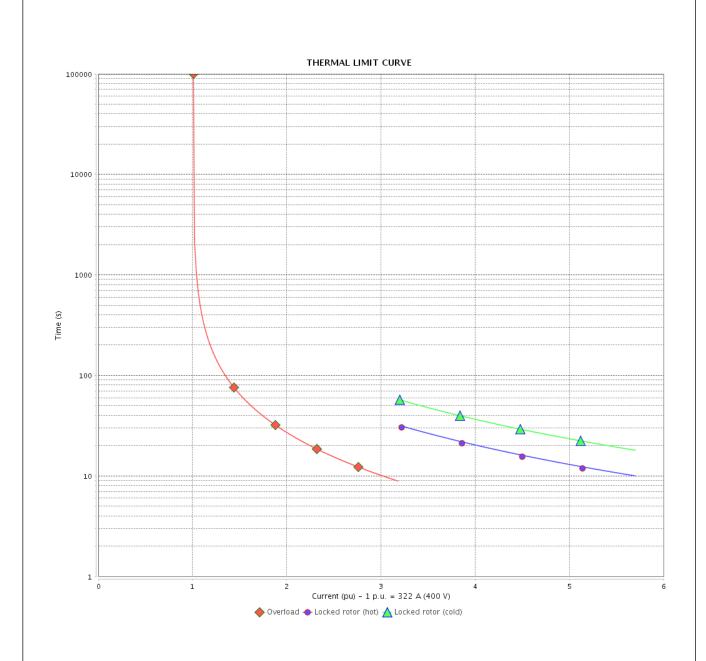


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12274697 25018ET3G4	47TSC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 4P IE2 : 322 A : 5.7 : 887 ft.lb : 200 % : 210 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	: 1480 rpm Changes Summary	Design	Performed	Checked	Date
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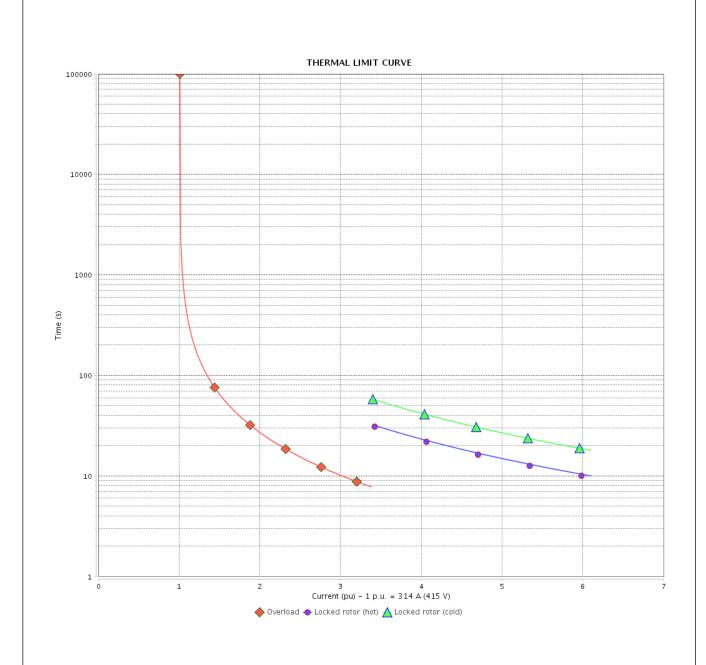


Customer	:					
Product line		NEMA Premium Efficiency Thase		Product code :	12274697	
			(Catalog # :	25018ET3G4	47TSC-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 88 e : 22	14 A 1 37 ft.lb 20 % 29 % 480 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant						
Cooling constant			Г			
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Pr

Phase

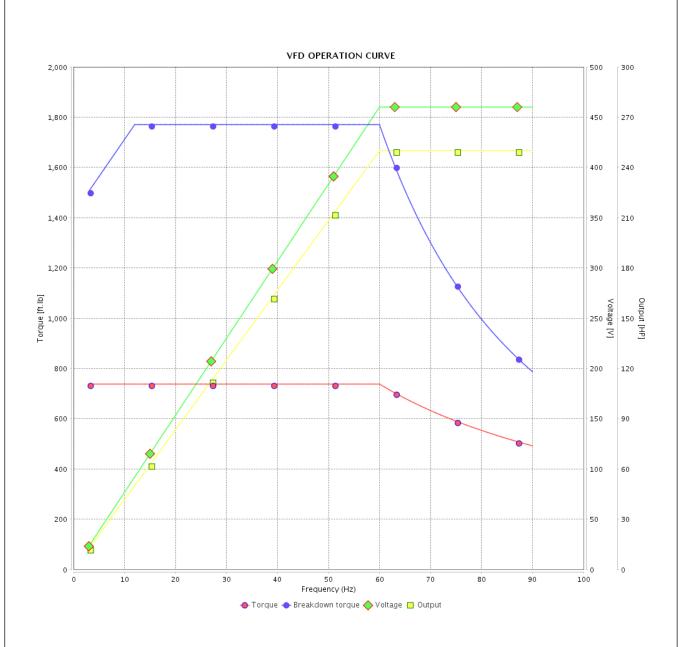
Product code: 12274697

Catalog #: 25018ET3G447TSC-W22

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Performance : 460 V 60 Hz 4P Rated current : 281 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class : 738 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

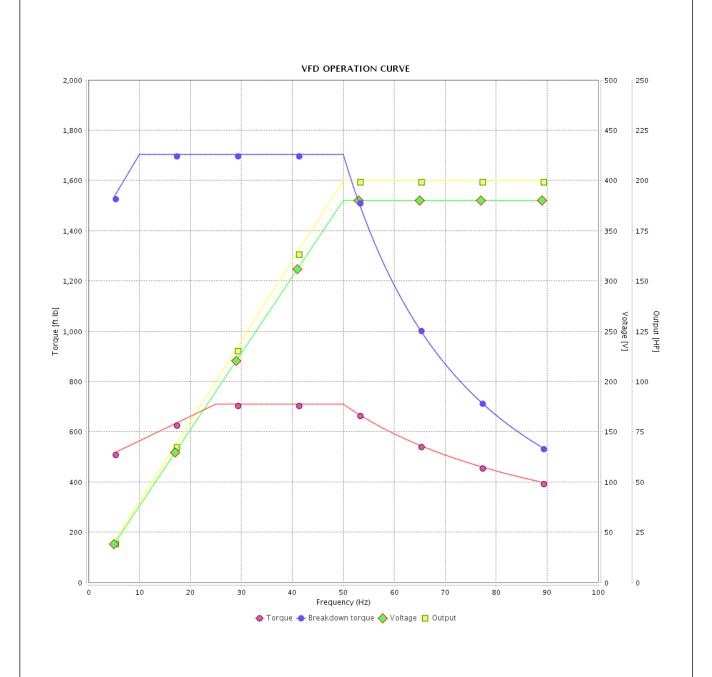
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12274697

Catalog #: 25018ET3G447TSC-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	73 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 6	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	10 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue : 2	40 %	0 % Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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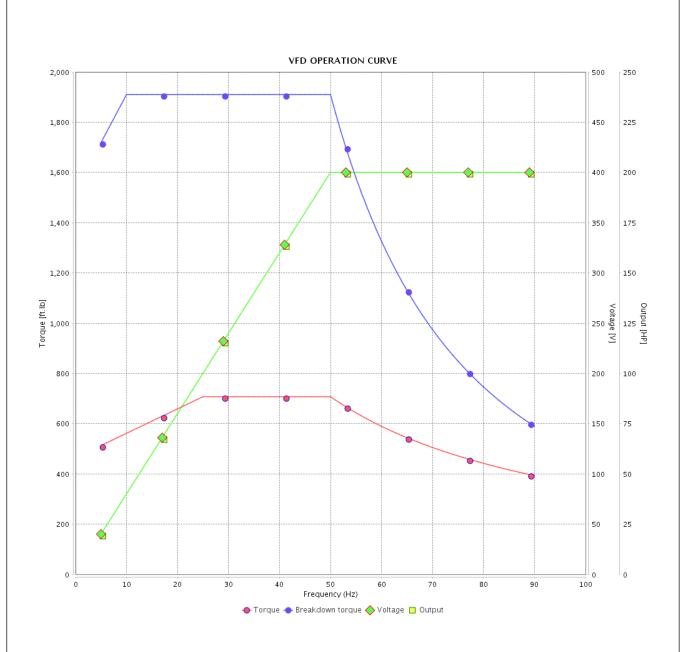
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12274697

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Performance : 400 V 50 Hz 4P IE3 Rated current : 263 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class : 707 ft.lb : F Rated torque Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

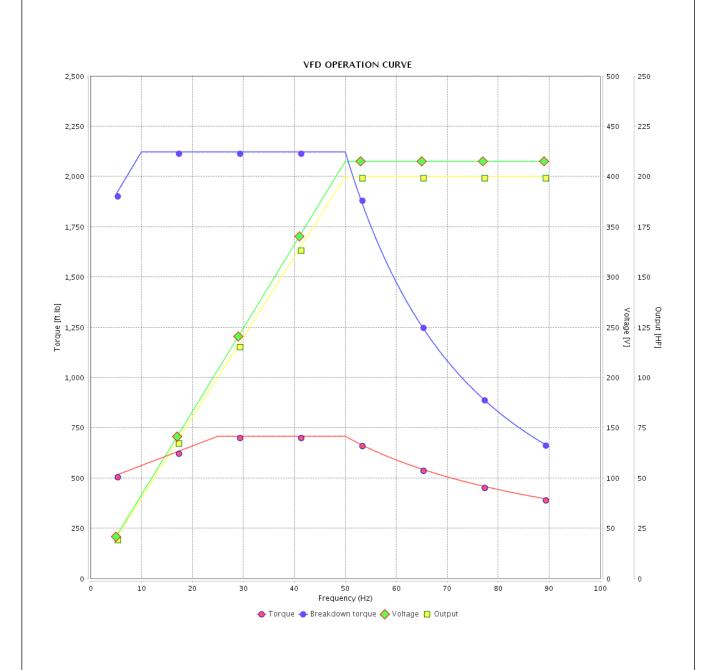


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 2	56 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 7	.4	Duty cycle	:	: Cont.(S1)	
Rated torque	: 7	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: : 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



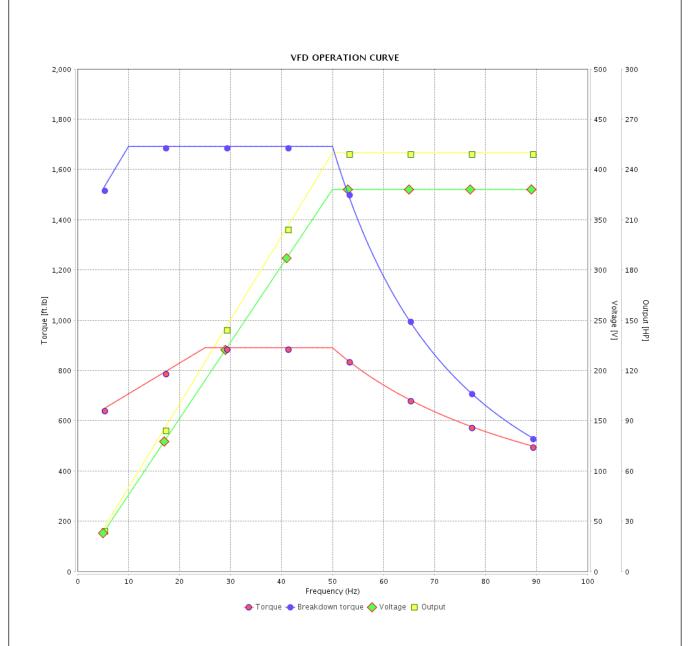
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12274697

Catalog #: 25018ET3G447TSC-W22



Performance : 380 V 50 Hz 4P IE1 : 340 A Moment of inertia (J) : 89.6 sq.ft.lb Rated current **LRC** : 5.1 Duty cycle : Cont.(S1) : 890 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Design Rated speed : 1475 rpm : B Changes Summary D ----

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Three Phase Induction Motor - Squirrel Cage

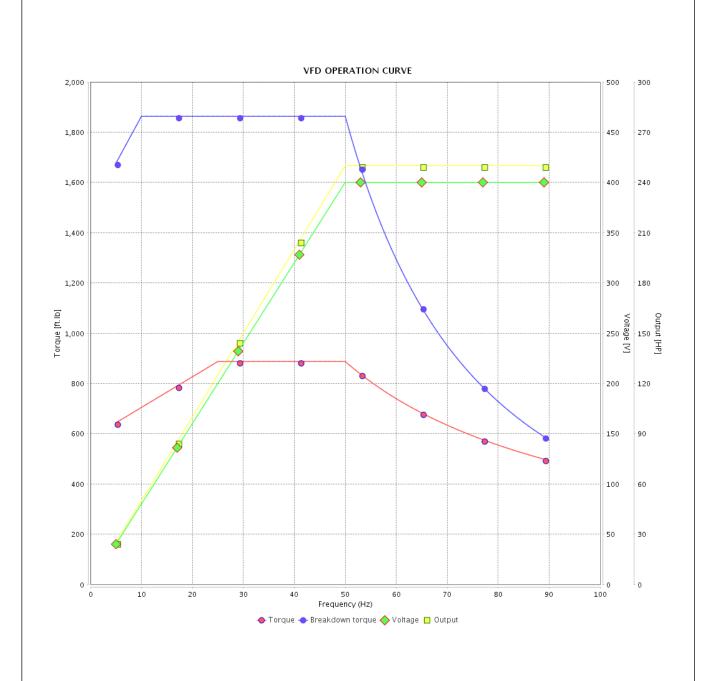


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12274697

Phase

Catalog #: 25018ET3G447TSC-W22



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 3:	: 322 A		f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 5	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	87 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	% Temperature rise		: 105 K	
Rated speed	: 1	480 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Date

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Product line : NEMA Premium Efficiency Three- F

Phase

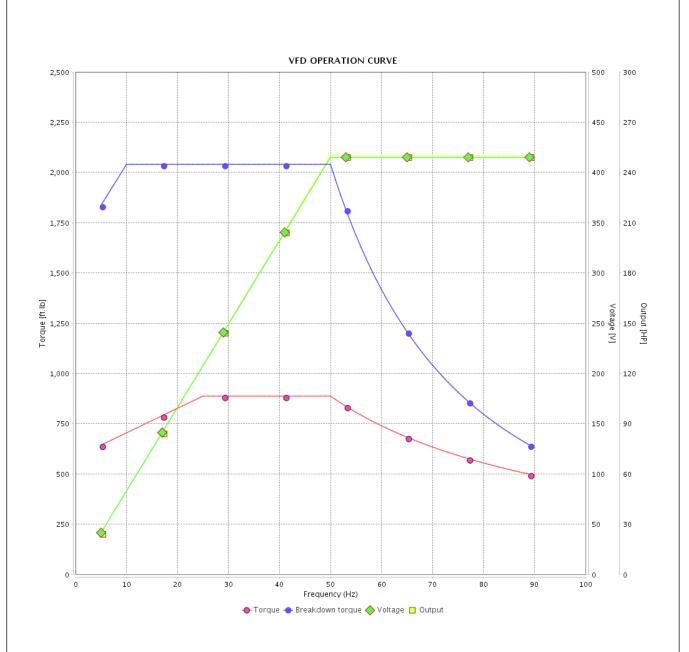
Product code: 12274697

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Performance : 415 V 50 Hz 4P IE2 : 314 A Rated current Moment of inertia (J) : 89.6 sq.ft.lb **LRC** Duty cycle : 6.1 : Cont.(S1) : 887 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

