DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472771

240

Catalog #: 25018ET3G447TS-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹

: Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 2520 lb Altitude : IP55 Moment of inertia (J) : 89.6 sq.ft.lb

Protection degree

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
	G)		G)				
No load current [A]	90.0	85.0	90.0	95.0	85.0	90.0	95.0
Rated speed [RPM]	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 torque [%]	229	200	260	290	180	200	220

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 18s (cold) 36s (cold) 28s (cold) 18s (cold) Locked rotor time 27s (cold) 32s (cold) 18s (cold) 15s (hot) 20s (hot) 18s (hot) 16s (hot) 10s (hot) 10s (hot) 10s (hot) Noise level² 73.0 dB(A) 25% 95.7 94.8 95.0 95.0 95.6 95.3 95.6 50% 95.8 95.0 95.1 95.1 95.4 95.4 95.4 Efficiency (%) 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 0.74 50% 0.75 0.77 0.72 0.80 0.77 0.75 Power Factor 75% 0.83 0.84 0.83 0.81 0.86 0.84 0.83 0.87 100% 0.86 0.86 0.85 0.87 0.87 0.86

270

300

190

210

229

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 : 4179 lb Max. traction WSeal WSeal : 6699 lb Sealing Max. compression

240

Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

Notes

Breakdown torque [%]

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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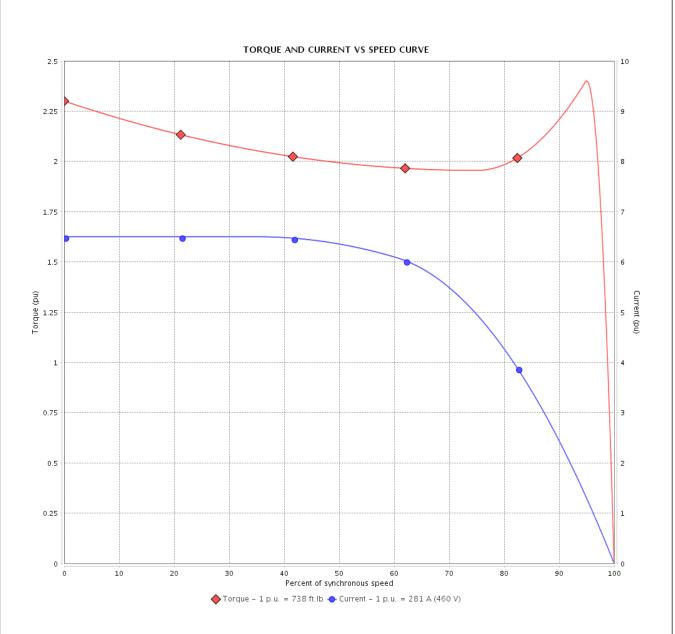
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25018ET3G447TS-W22

13472771



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)	
Rated torque	: 738 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 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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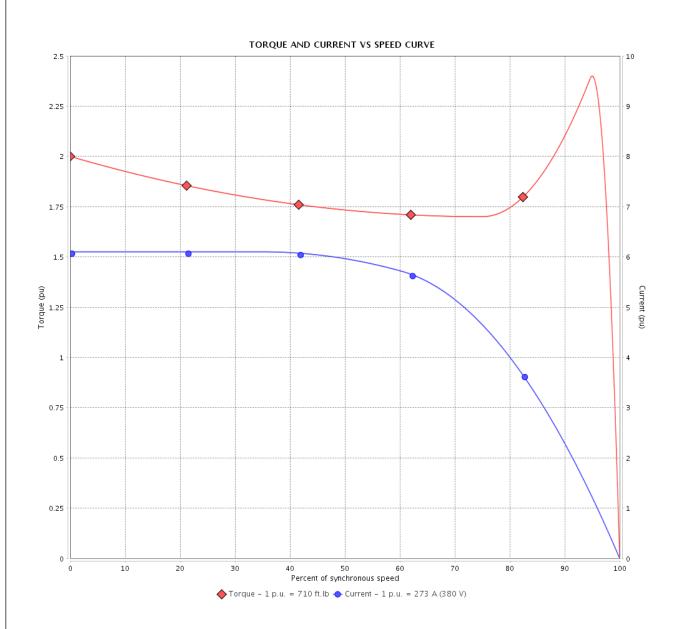


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase

Catalog #: 25018ET3G447TS-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) Insulation class Rated torque : 710 ft.lb : 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 (hot)

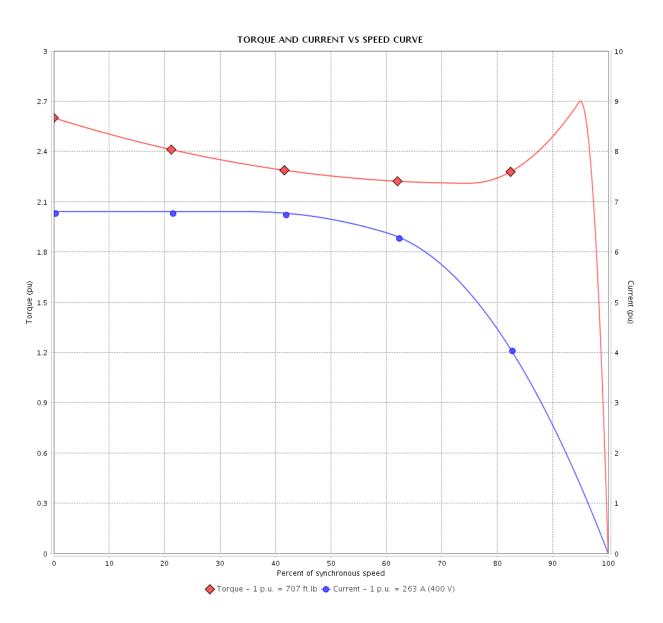
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472771



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)	
Rated torque	: 707 ft.lb	Insulation class	: 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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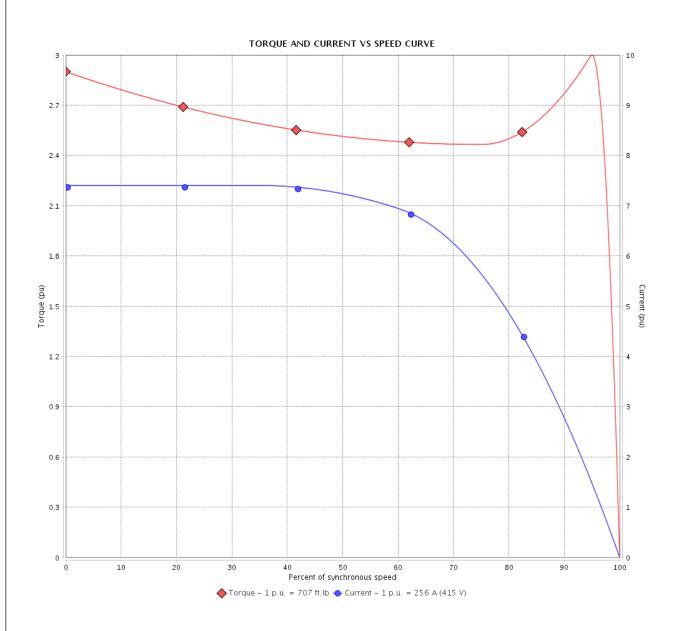


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase

Catalog #: 25018ET3G447TS-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)	
Rated torque	: 707 ft.lb	Insulation class	: F	
Locked rotor torque	: 290 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	

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

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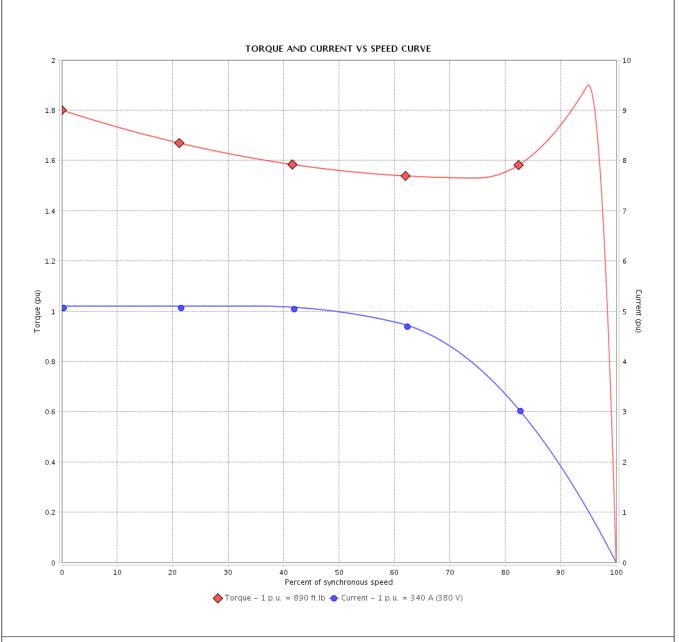
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 13472771

Catalog #: 25018ET3G447TS-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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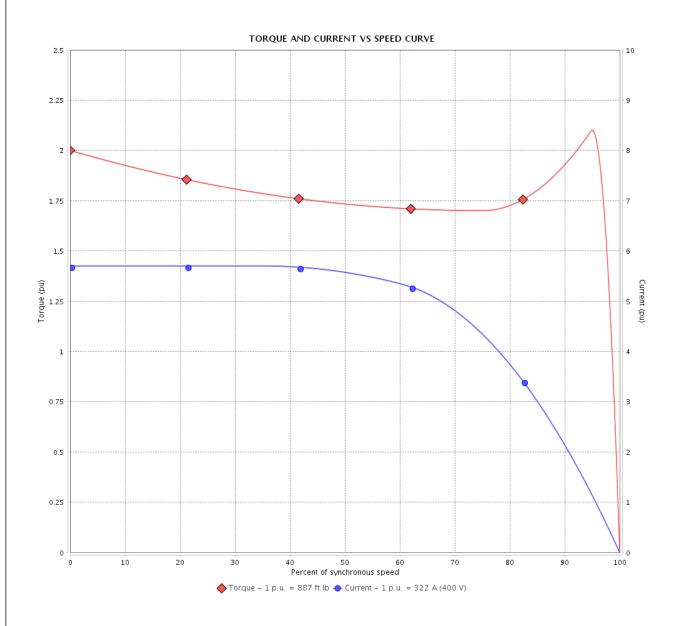
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472771

Catalog #: 25018ET3G447TS-W22



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 : 200 % : 1.00 Locked rotor torque Service factor Breakdown torque : 210 % Temperature rise : 105 K : B Rated speed : 1480 rpm Design

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

LOCKCO TOTOL TITLE	. 1	33 (cold) 103 (110t)			
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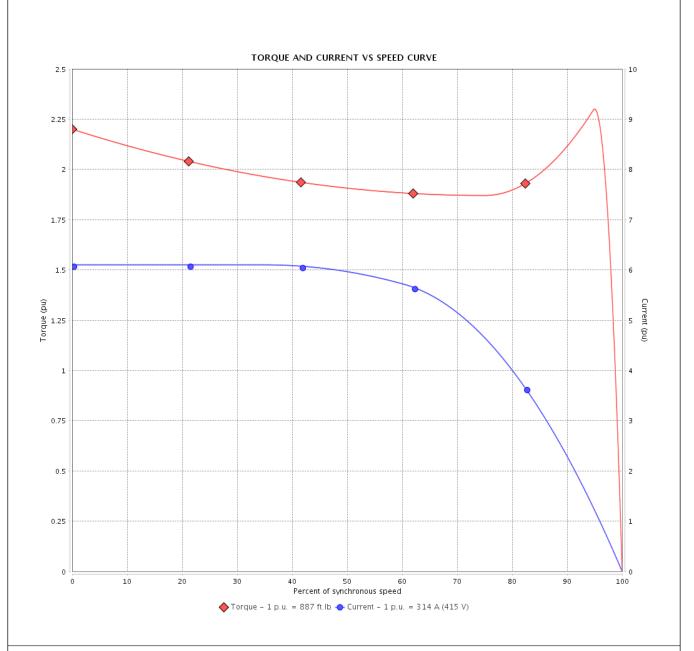
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25018ET3G447TS-W22

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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 Locked rotor torque : 220 % Service factor : 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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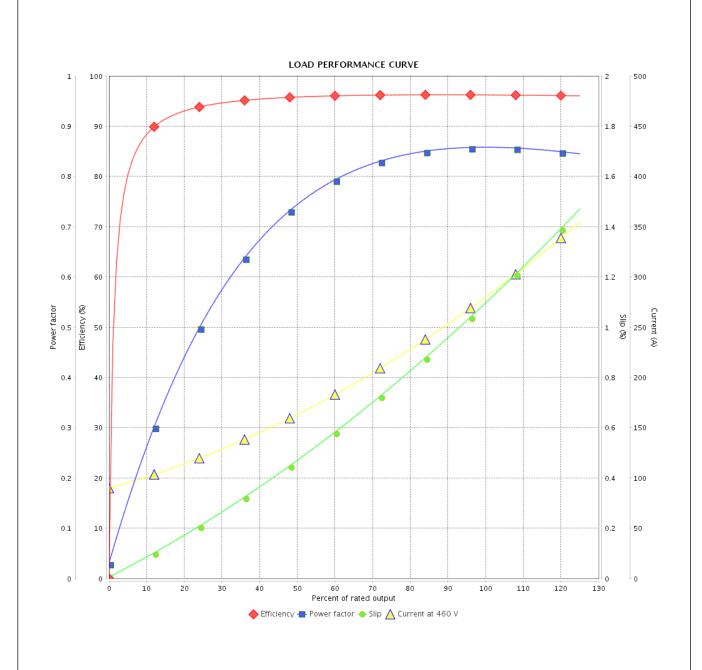
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 2	81 A	1 A Moment of 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 %	Temperatu	Temperature rise		
Rated speed	: 1	780 rpm	Design		: B	
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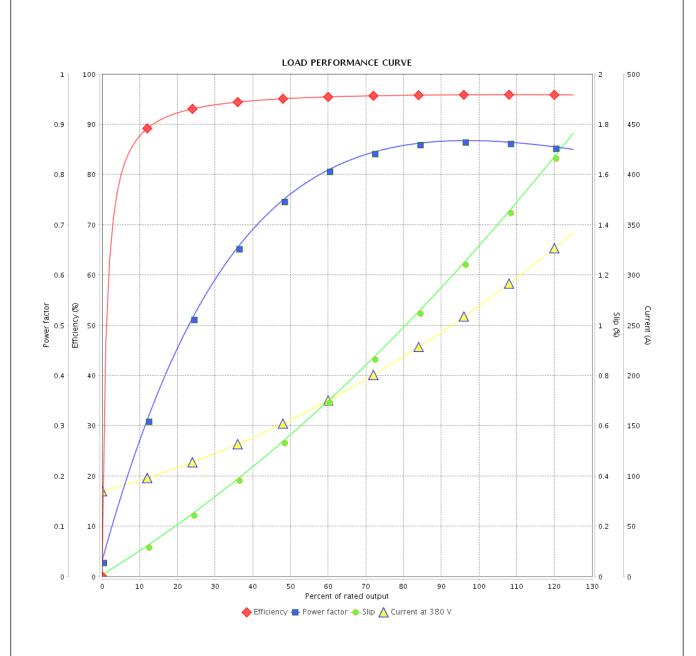
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase

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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 ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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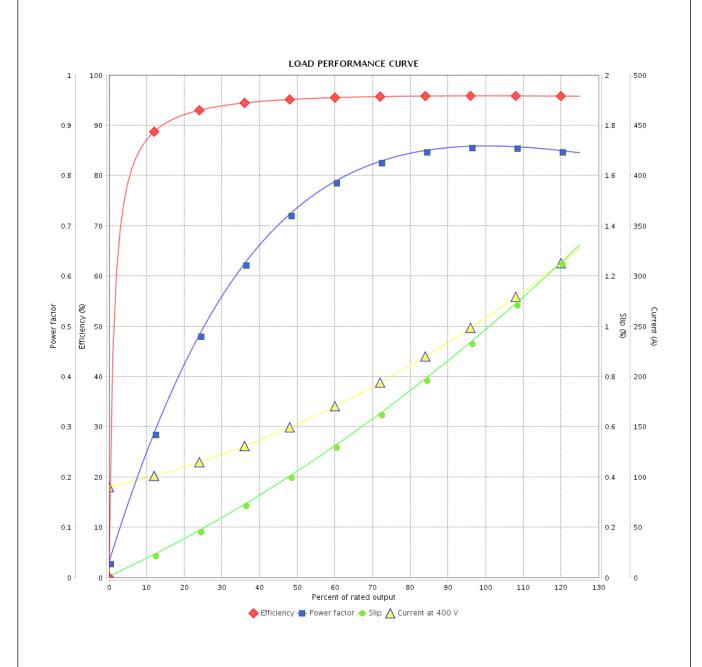
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Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current	d current : 263 A		Moment o	Moment of inertia (J)		
LRC	: 6	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	07 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	60 %	Service factor		: 1.15	
Breakdown torque	: 2	70 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm	Design		: B	
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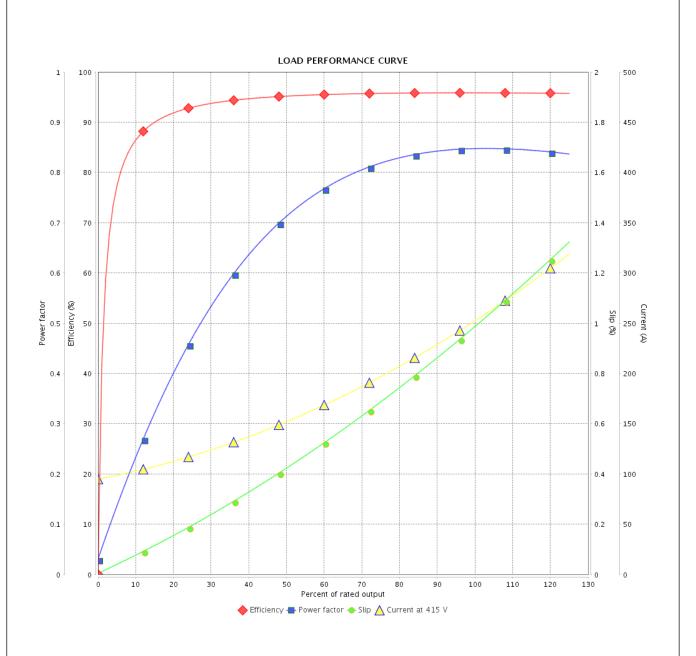
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 2	6 A Moment of		of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 7.	.4	Duty cycle	e	: Cont.(S1)	
Rated torque	: 70	07 ft.lb	Insulation class		: F	
Locked rotor torq	ue : 29	90 %	Service factor		: 1.15	
Breakdown torqu	reakdown torque : 300 % Te		Temperat	ure rise	: 80 K	
Rated speed	: 14	485 rpm	Design		: B	
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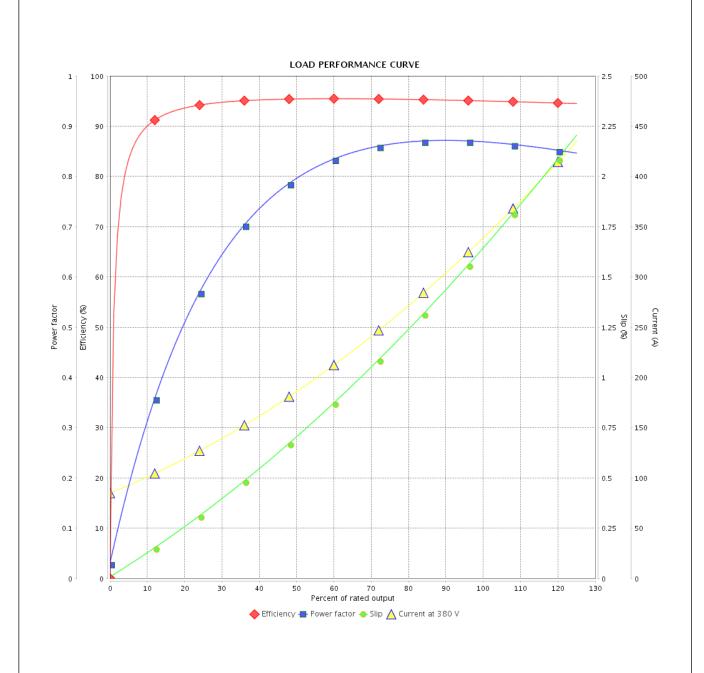
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance	:	380 V 50 Hz 4P IE1				
Rated current	rent : 340 A Mon		Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	:	5.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	890 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	180 %	Service fa	ctor	: 1.00	
Breakdown torque	:	190 %	Temperature rise		: 105 K	
Rated speed	:	1475 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



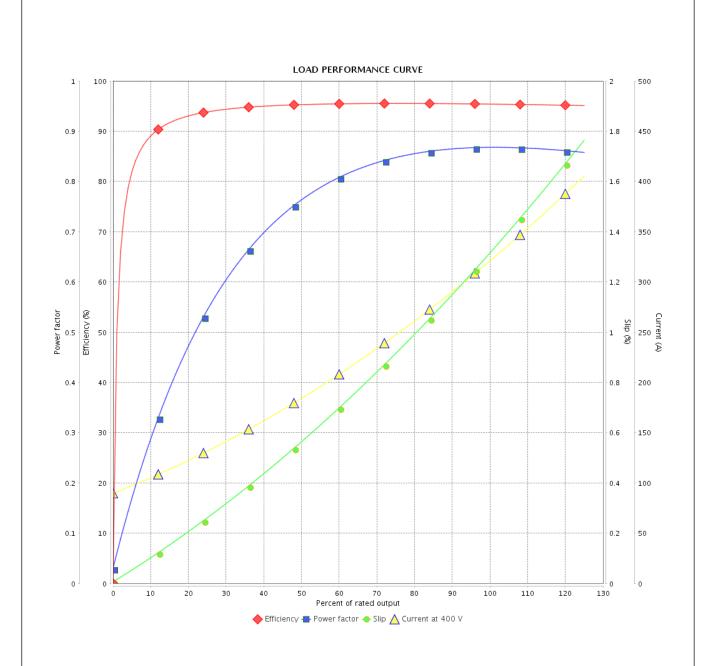
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase

Catalog #: 25018ET3G447TS-W22

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D . (400 V 50 LL 4D 150	·			
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)	
Rated torque : 887 ft.lb		Insulation cl		: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 210 %	Temperature rise		: 105 K	
Rated speed	: 1480 rpm	Design		: B	
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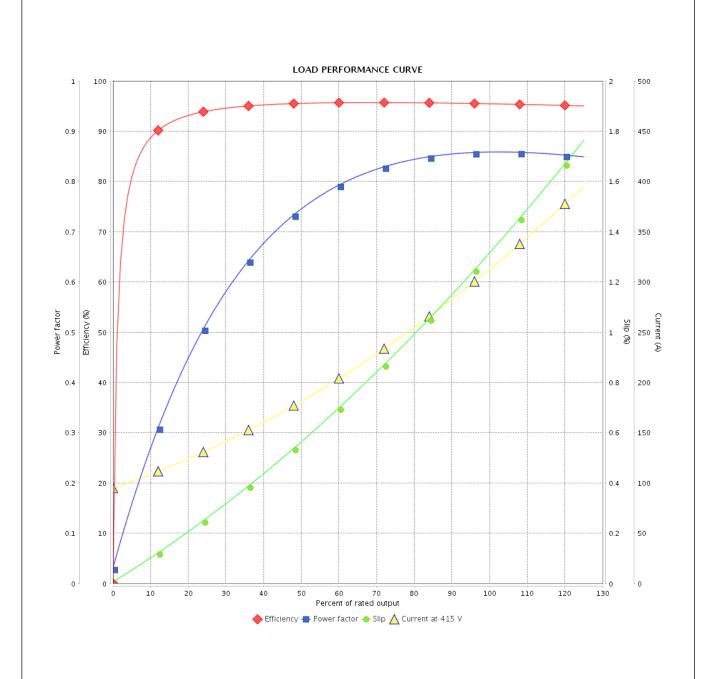
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



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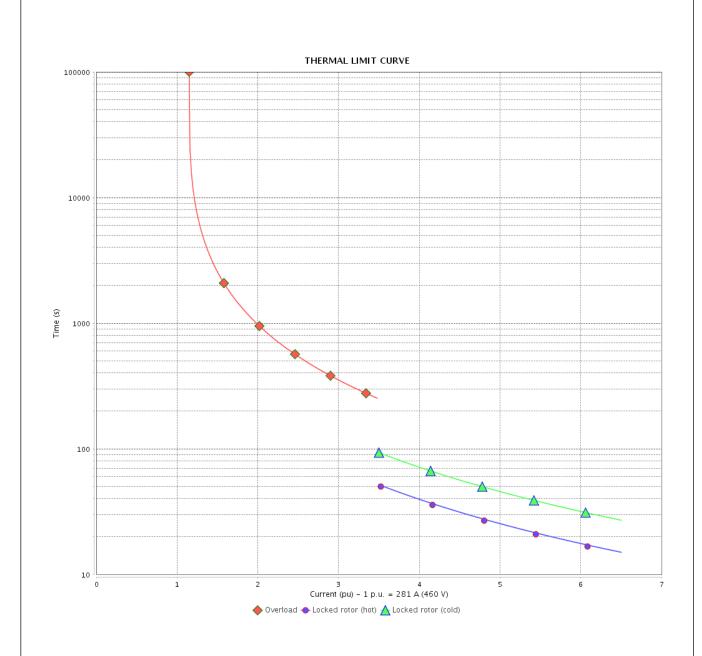


Customer		:				
Product line		: NEMA Premium Efficiency	Throo	Product code :	13472771	
Floductille		Phase			15472771	
				Catalog # :	25018ET3G4	47TS-W22
Performance		: 460 V 60 Hz 4P				
Rated current		: 281 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC Rated torque		: 6.5 : 738 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	lue	: 229 %	Service fa	ctor	: 1.15	
Breakdown torqu		: 240 %	Temperati	ure rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B 	
Heating constant						
Cooling constant		01 0				
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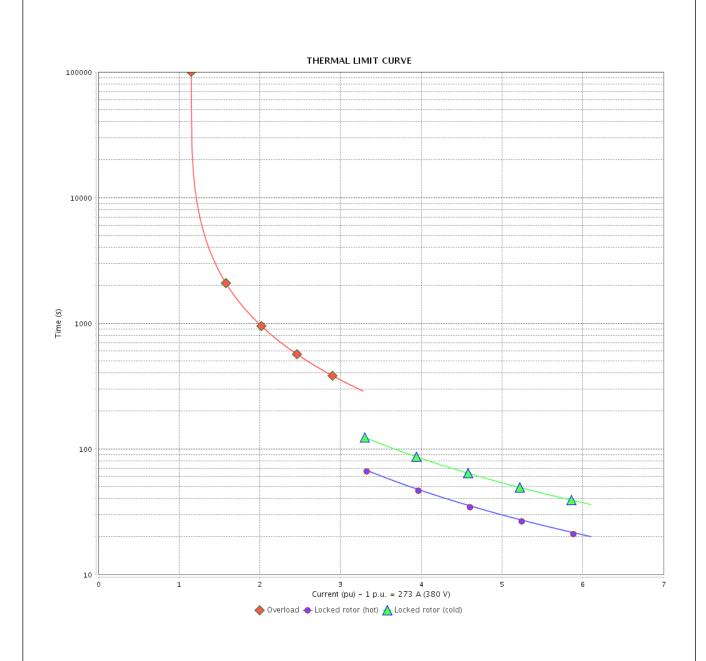


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472771 25018ET3G4	17TS-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 273 A : 6.1	Duty cycle		: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 710 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 240 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
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Cooling constant	Ţ.	Changes Summers		Performed	Checked	Date
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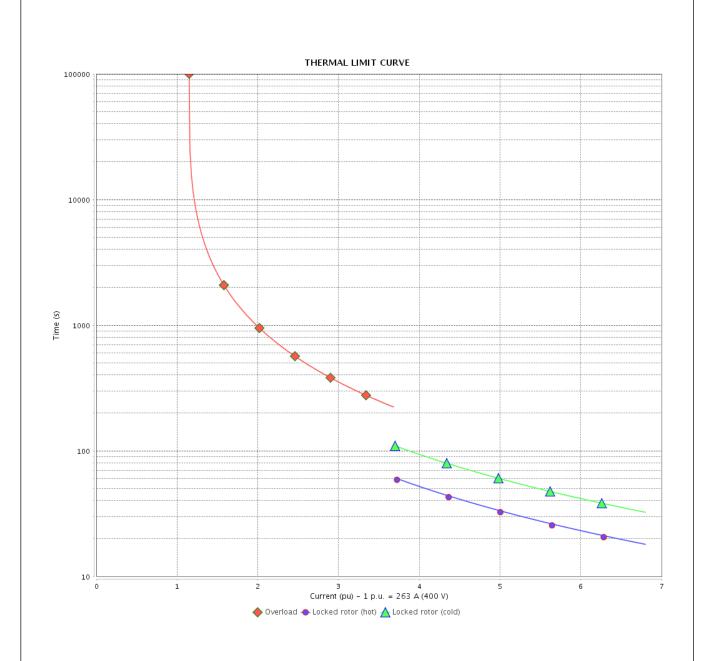


Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	13472771 25018ET3G4	47TS-W22
Performance Rated current LRC Rated torque Locked rotor torque	: 400 V 50 Hz 4P IE3 : 263 A : 6.8 : 707 ft.lb : 260 %	Moment of Duty cycle Insulation Service fa	class	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	: 270 % : 1485 rpm	Temperati Design		: 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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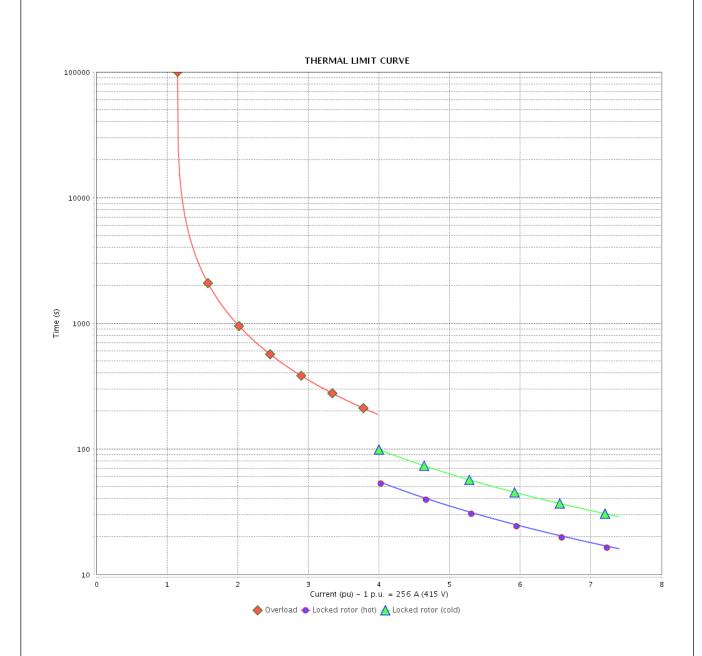


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472771 25018ET3G44	17TS-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 256 A	Moment of	of inertia (J)	: 89.6 sq.ft.lb	
LRC Rated torque		: 7.4 : 707 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Locked rotor tord	que	: 290 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 300 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		r				
Cooling constant						
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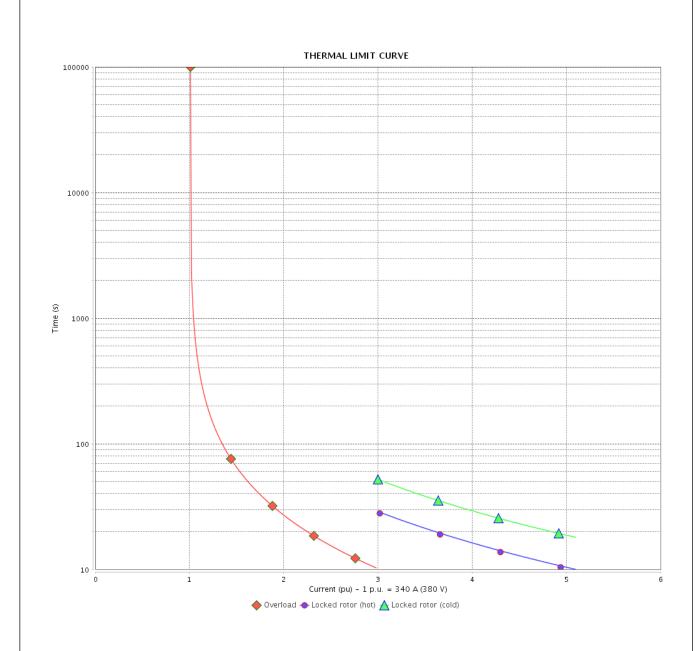


Customer	:		
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	13472771
		Catalog #:	25018ET3G447TS-W22
Performance	: 380 V 50 Hz 4P IE1		
Rated current LRC	: 340 A : 5.1	Moment of inertia (J) Duty cycle	: 89.6 sq.ft.lb : Cont.(S1)
Rated torque	. 5. i : 890 ft.lb	Insulation class	: F
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			
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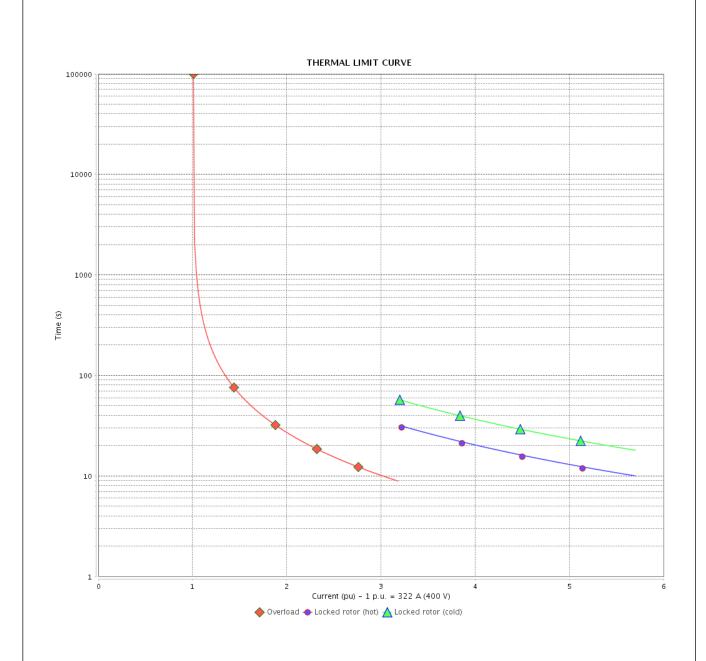


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472771 25018ET3G44	17TS-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 322 A : 5.7	Moment of Duty cycle	of inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 887 ft.lb	Insulation	class	: F	
Locked rotor tord		: 200 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 210 % : 1480 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constan	t					
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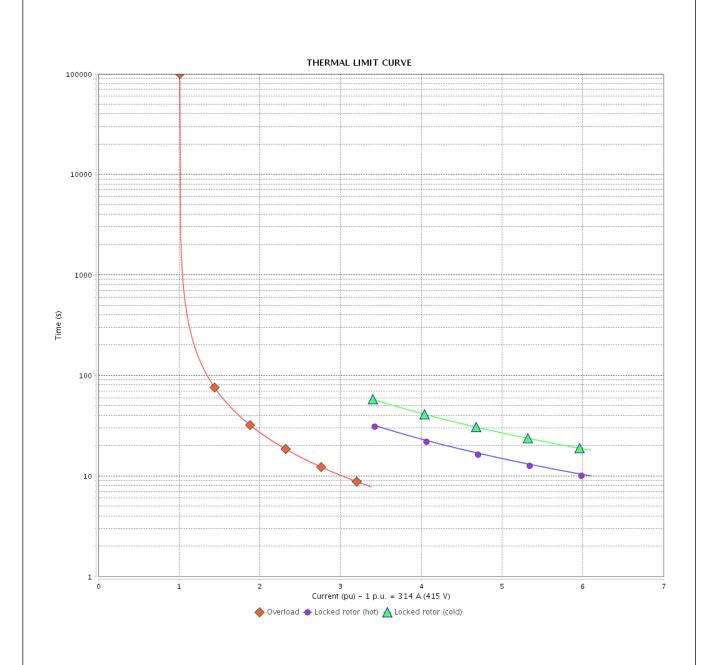


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Customer	:					
Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	13472771	
	11	1830	(Catalog # :	25018ET3G4	47TS-W22
Performance	: 41	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 88 e : 22 : 22	14 A 1 37 ft.lb 20 % 29 % 180 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	
Heating constant		•				
Cooling constant						
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Product line : NEMA Premium Efficiency Three-

Phase

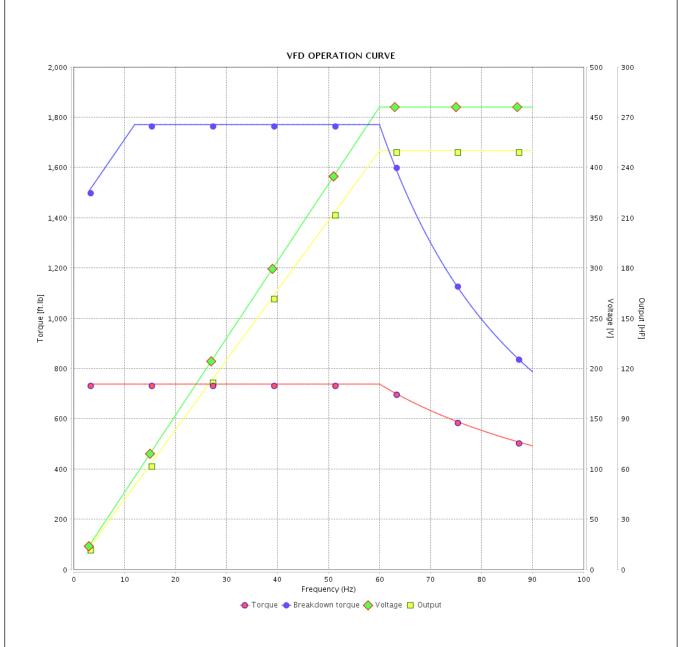
Product code: 13472771

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Revision



Performance		: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	•	: 281 A : 6.5 : 738 ft.lb : 229 % : 240 % : 1780 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	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



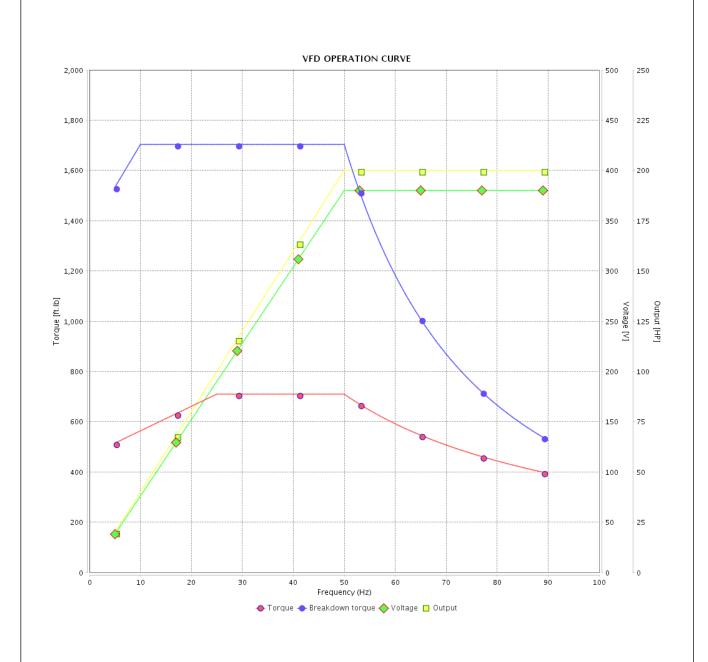
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase

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Performance	: 380 V 50 H	IP IE3			
Rated current : 273 A Moment of LRC : 6.1 Duty cycle Rated torque : 710 ft.lb Insulation Locked rotor torque : 200 % Service fa Breakdown torque : 240 % Temperate Rated speed : 1480 rpm Design		class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.	Changes	ummary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

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Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three- F

Phase

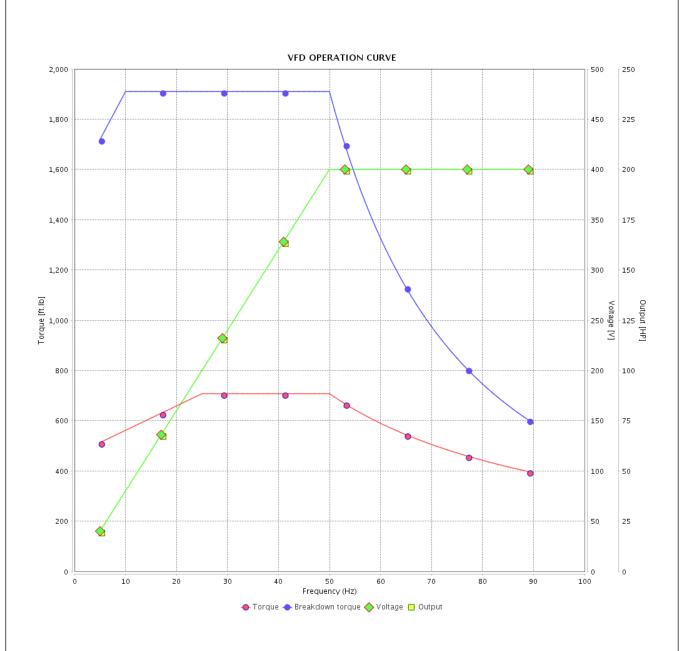
Product code: 13472771

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Revision



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 70 ue : 26	63 A .8 07 ft.lb 60 % 70 % 485 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

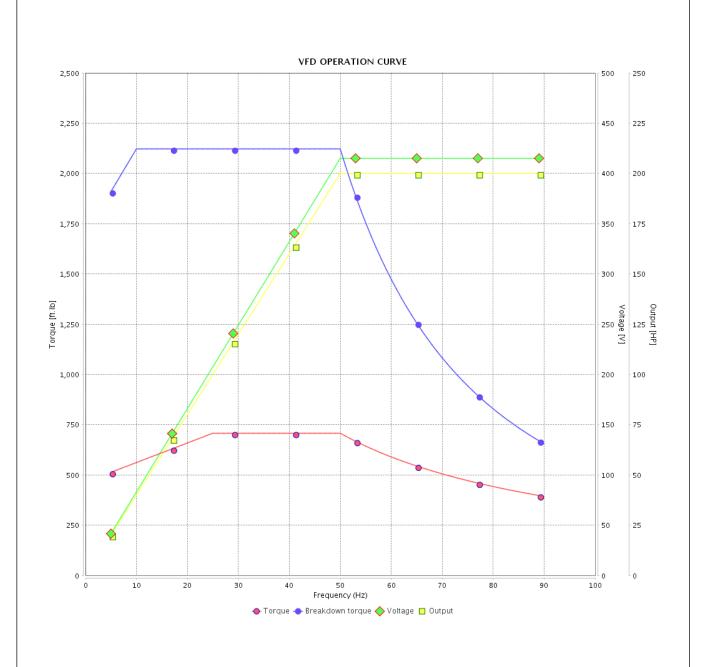
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance		: 415 V 50 Hz 4P IE3						
Rated current	: 2	56 A Moment of inertia (J)		: 89.6 sq.ft.lb				
LRC		.4	Duty cycle		: Cont.(S1)			
Rated torque	: 7	: 707 ft.lb : 290 % : 300 % : 1485 rpm Insulation class Service factor Temperature rise		class	: F			
Locked rotor torqu	ıe : 2			tor : 1.15				
Breakdown torque	: 3			ıre rise	: 80 K			
Rated speed	: 1				: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three-

Phase

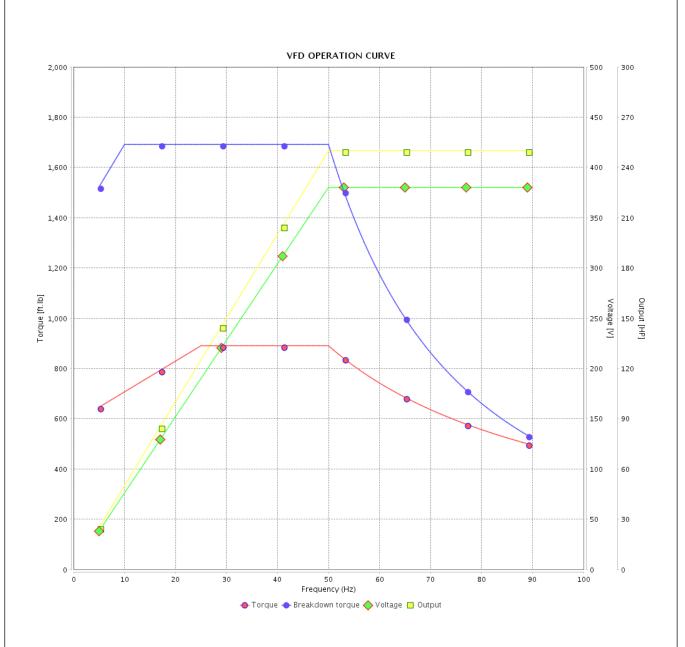
Product code: 13472771

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Revision



Performance	: 3	880 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 8 jue : 1 ie : 1	340 A 5.1 190 ft.lb 80 % 90 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

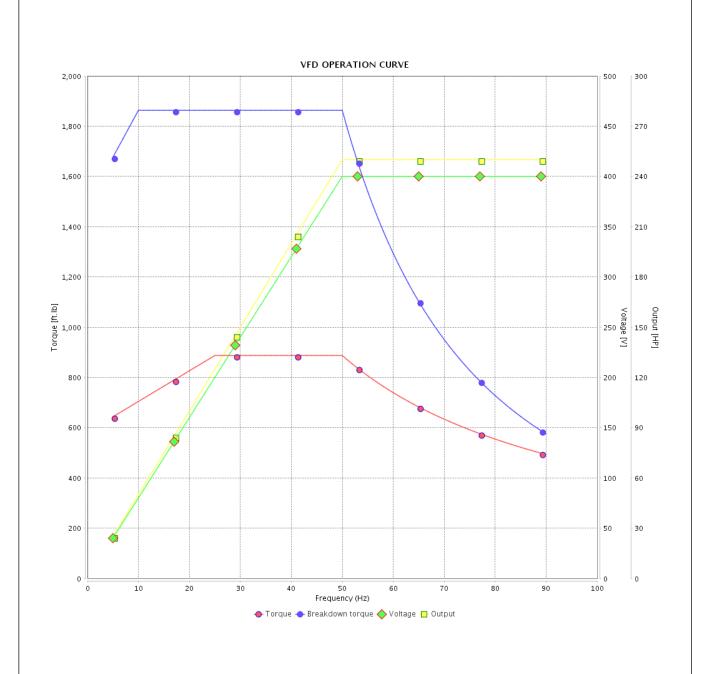
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472771

Phase



Performance	:	: 400 V 50 Hz 4P IE2						
Rated current	:	Moment of inertia (J)		f inertia (J)	: 89.6 sq.ft.lb			
LRC	:	5.7	Duty cycle		: Cont.(S1)			
Rated torque	:	: 887 ft.lb Insulation : 200 % Service : 210 % Temperation : 1480 rpm Design		class	: F			
Locked rotor torque	:			ctor	: 1.00			
Breakdown torque	:			ıre rise	: 105 K			
Rated speed	:			Design				
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Three Phase Induction Motor - Squirrel Cage



Customer :

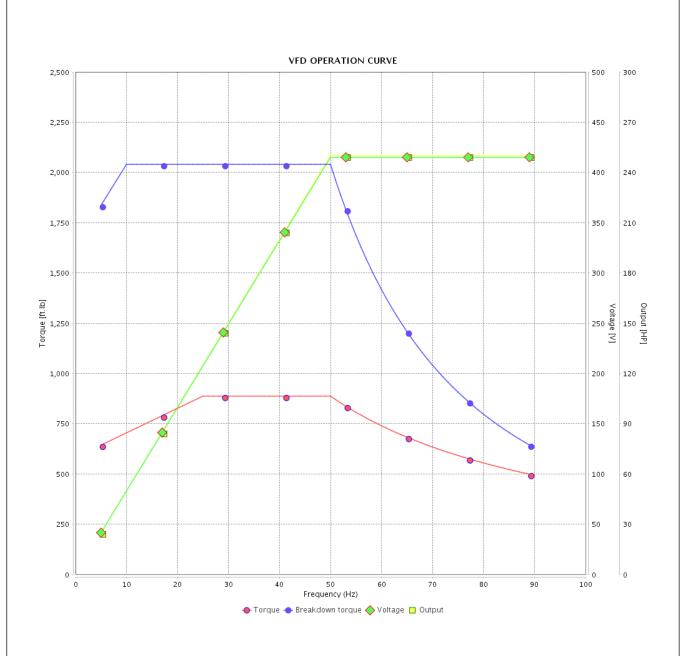
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13472771

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		·						
Performance	: 415 V 50 Hz 4P IE2	: 415 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B				
Rev.			Performed		Date			
Performed by Checked by				Page	Revision			

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Date

