### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567250

Catalog #: 15018ET3G445TS-W22

Frame : 444/5TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1810 lb Protection degree : IP55 Moment of inertia (J) : 66.7 sq.ft.lb

Design	5	: B		Monie	it of intertia (5)	. 0	0.7 Sq.11.10	
Output [HP]		150	125	125	125	150	150	150
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]		170	170	163	159	205	194	189
L. R. Amperes [A]		1122	1190	1127	1192	1189	1125	1191
LRC [A]		6.6x(Code	7.0x(Code	6.9x(Code	7.5x(Code H)	5.8x(Code F)	5.8x(Code F)	6.3x(Code
		G)	G)	G)				G)
No load current [A]	]	58.0	58.0	61.2	64.0	58.0	61.2	64.0
Rated speed [RPN	1]	1780	1480	1480	1480	1475	1475	1480
Slip [%]		1.11	1.33	1.33	1.33	1.67	1.67	1.33
Rated torque [ft.lb]		443	444	444	444	534	534	532
Locked rotor torqu	e [%]	200	190	220	229	160	180	190
Breakdown torque	[%]	250	240	260	290	200	220	240
Service factor		1.15	1.00	1.00	1.00	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		48s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		27s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
	25%	95.3	95.1	95.1	94.6	95.6	95.6	95.3
Efficiency (%)	50%	95.4	95.1	95.1	94.8	95.4	95.4	95.4
Lincicity (70)	75%	95.8	95.5	95.5	95.5	95.4	95.4	95.4
	100%	95.8	95.3	95.3	95.5	95.0	95.0	95.4
	25%	0.49	0.49	0.45	0.43	0.55	0.51	0.49
Power Factor	50%	0.74	0.73	0.70	0.68	0.79	0.76	0.74
1 OWCI I ACIOI	75%	0.82	0.83	0.81	0.79	0.85	0.83	0.82
	100%	0.85	0.86	0.85	0.84	0.86	0.86	0.85

Drive end Non drive end Foundation loads 6314 C3 Bearing type 6314 C3 Max. traction

: 2500 lb Sealing WSeal WSeal : 4310 lb Max. compression 12000 h Lubrication interval 12000 h

Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

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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#### Three Phase Induction Motor - Squirrel Cage



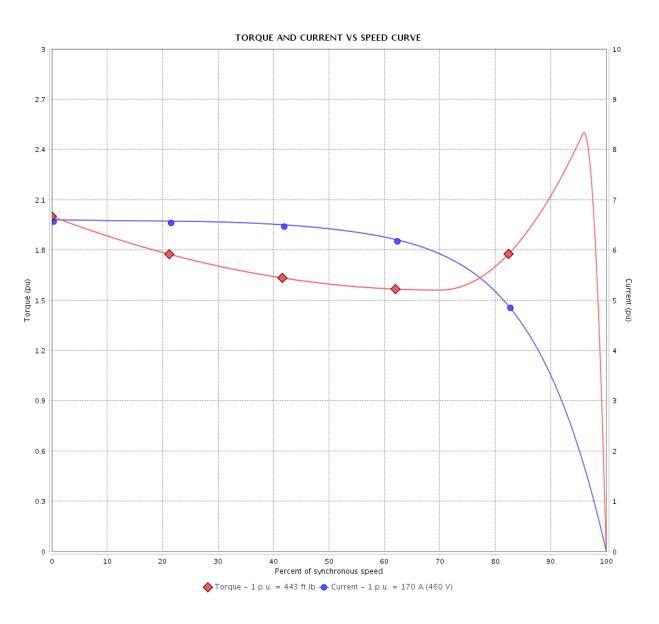
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11567250

Catalog #: 15018ET3G445TS-W22



Performance : 460 V 60 Hz 4P Rated current : 170 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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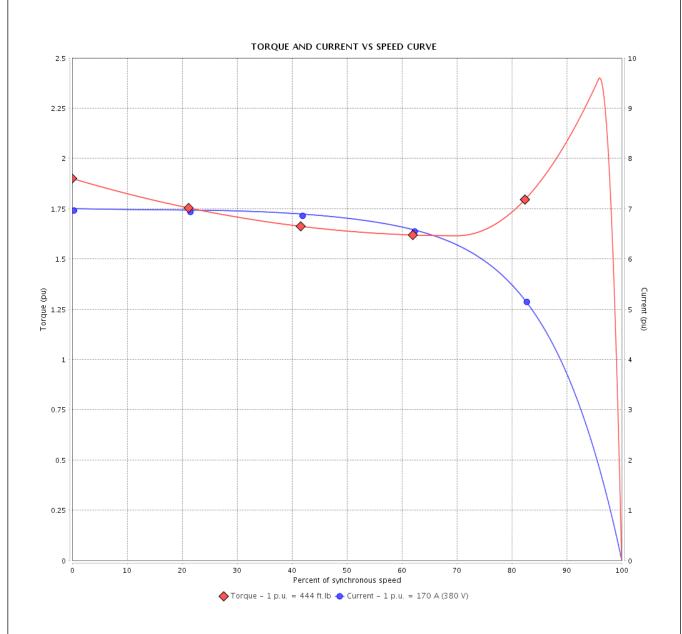
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567250

Catalog #: 15018ET3G445TS-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 170 A	Moment of inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 444 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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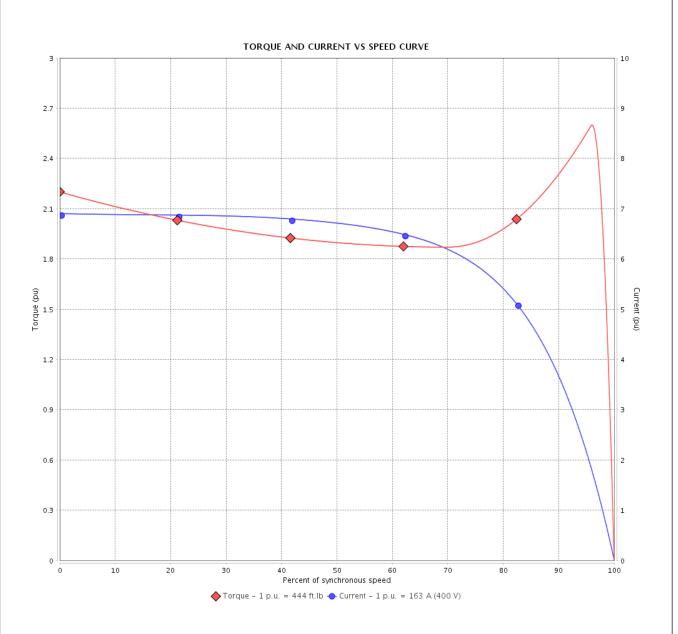


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 15018ET3G445TS-W22

11567250



Performance : 400 V 50 Hz 4P IE3 Rated current : 163 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 444 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 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: 11567250 Catalog #: 15018ET3G445TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 444 ft.lb ◆ Current - 1 p.u. = 159 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 159 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 444 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Performed Checked Rev. **Changes Summary** Performed by

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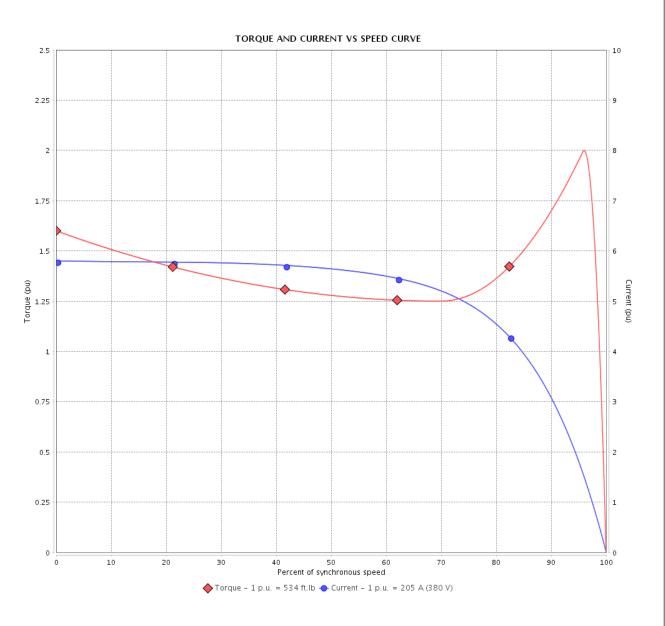
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3G445TS-W22

11567250



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 205 A	Moment of inertia (J)	: 66.7 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 534 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)		

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: 11567250 Catalog #: 15018ET3G445TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 0.5 0.25 40 50 o. Percent of synchronous speed ◆ Torque - 1 p.u. = 534 ft.lb ◆ Current - 1 p.u. = 194 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current · 194 A Moment of inertia (.I) · 66 7 sq ft lb

Nated Current		. 194 A   Mornerit of the		ilielia (3)	. 00.7 Sq.11.10	
LRC	: 5	5.8	Duty cycle		e : Cont.(S1)	
Rated torque	rque : 534 ft.lb Insulation class		: F			
Locked rotor torq	ue : 1	180 %	Service fac	tor	: 1.00	
Breakdown torqu	ie : 2	220 %	Temperatu	re rise	: 105 K	
Rated speed	: 1	1475 rpm	Design		: B	
Locked rotor time	e :	32s (cold) 18s (ho	t)			
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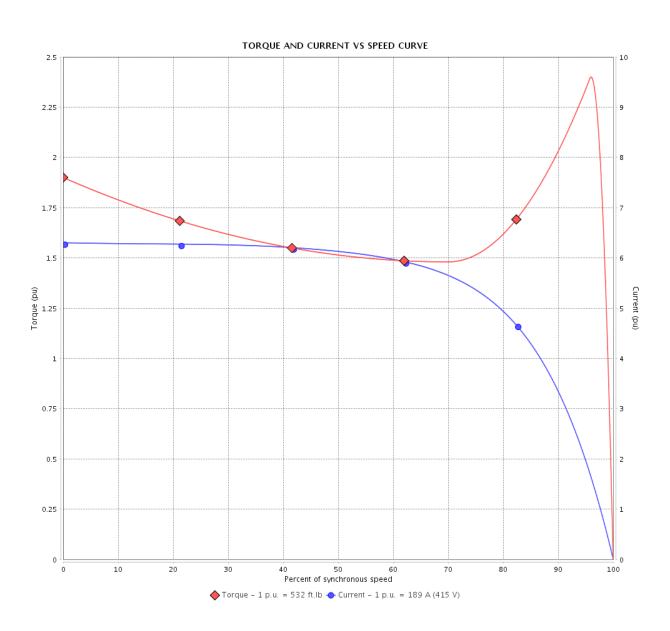
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567250

Catalog #: 15018ET3G445TS-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 189 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 532 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Locked rotor time

: 32s (cold) 18s (hot)

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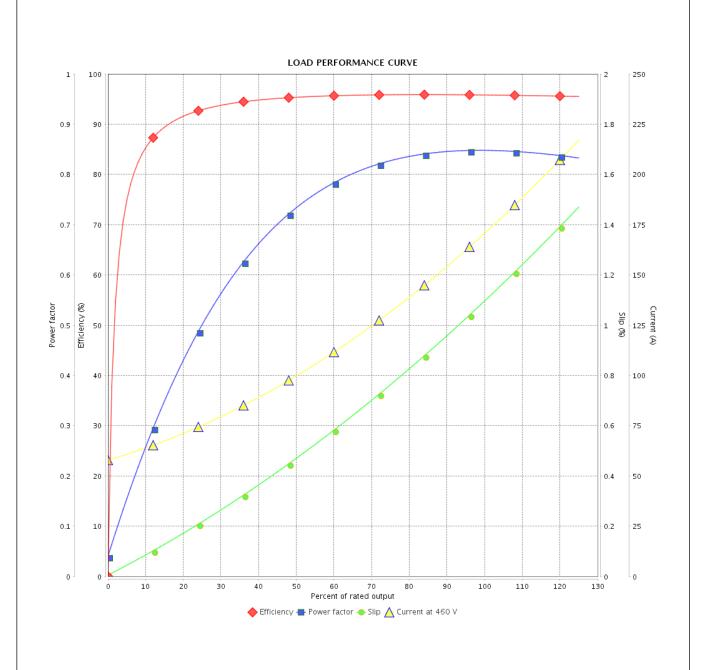


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22



Performance	: •	460 V 60 Hz 4P				
Rated current	:	170 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	:	6.6	Duty cycle	}	: Cont.(S1)	
Rated torque	:	443 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	200 %	Service fa	ctor	: 1.15	
Breakdown torque : 250 %		250 %	Temperature rise		: 80 K	
Rated speed	:	1780 rpm	Design		: B	
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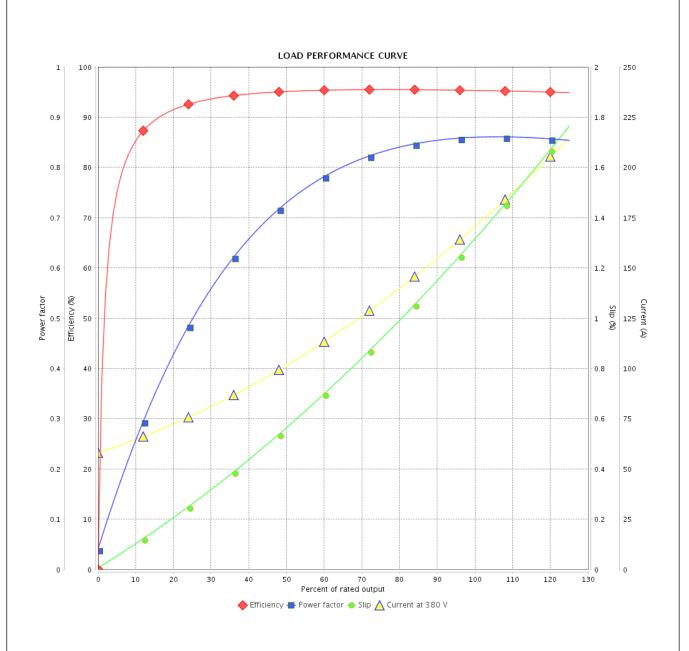


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11567250

Catalog #: 15018ET3G445TS-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	ated current : 170 A		Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	e	: Cont.(S1)	
Rated torque	: 4	144 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	190 %	Service fa	ictor	: 1.00	
Breakdown torque : 24		240 %	Temperati	Temperature rise		
Rated speed	: 1	1480 rpm	Design		: B	
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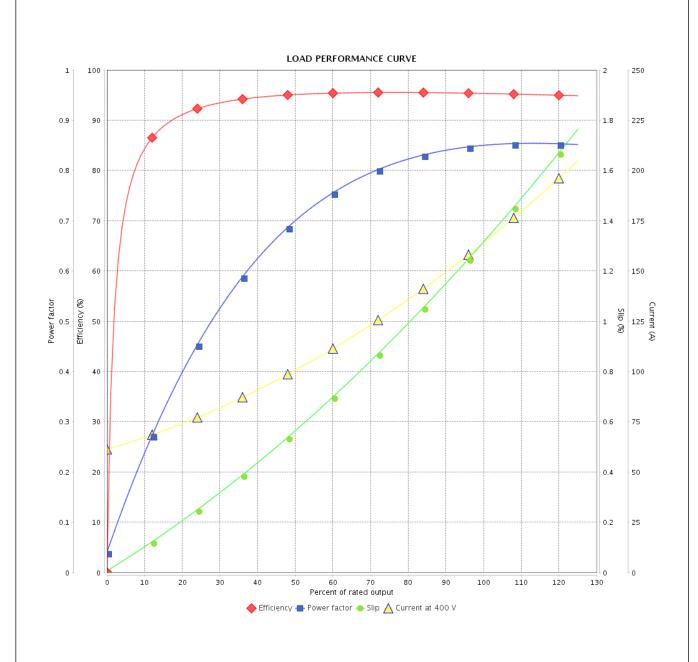


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22



Performance	: 400 V 50 Hz 4P IE3						
Rated current	ated current : 163 A		Moment o	f inertia (J)	: 66.7 sq.ft.lb		
LRC	: 6	.9	Duty cycle	)	: Cont.(S1)		
Rated torque	: 4	44 ft.lb	Insulation	Insulation class			
Locked rotor torque	e :2	20 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	60 %	Temperati	Temperature rise			
Rated speed	: 1	480 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



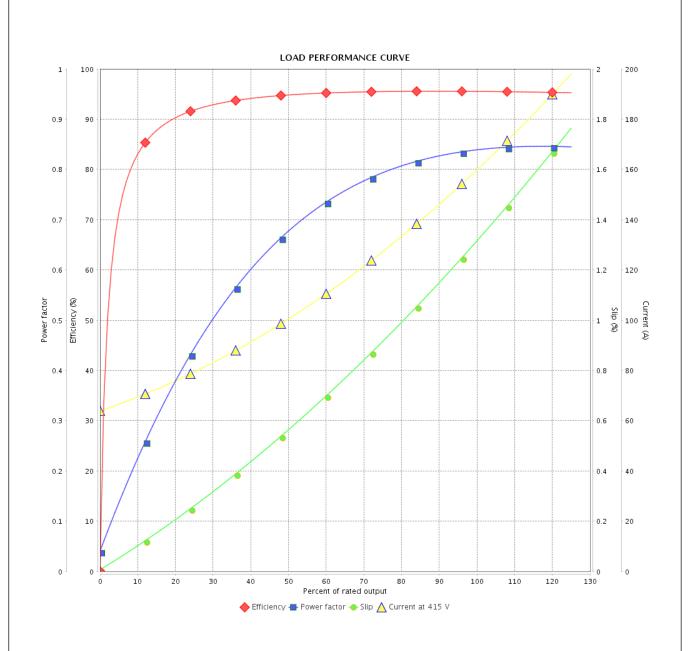
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22

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Performance	: 415 V 50 Hz 4P IE3				
LRC       : 7.5       [         Rated torque       : 444 ft.lb       [         Locked rotor torque       : 229 %       [         Breakdown torque       : 290 %       [		Moment of inertia (J) : 66.7 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B			
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#### Three Phase Induction Motor - Squirrel Cage

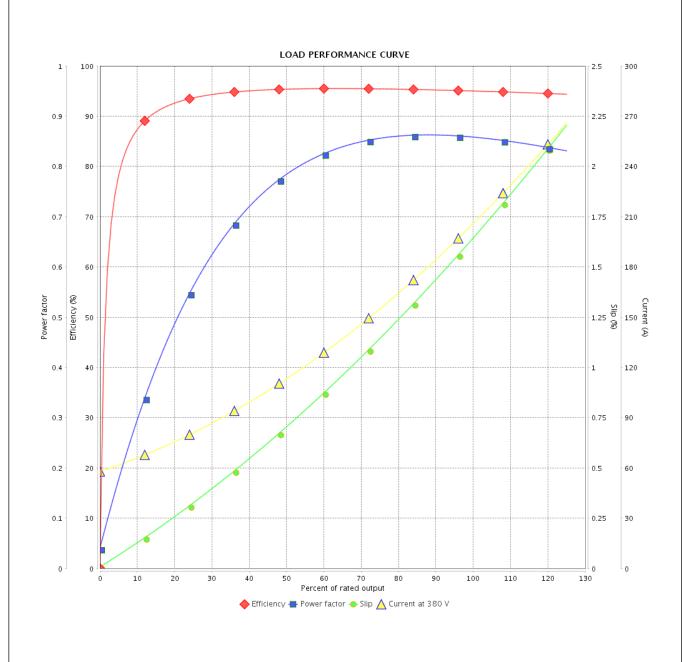


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22



Performance	: 3	380 V 50 Hz 4P IE2				
Rated current	: 2	: 205 A Moment of		f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 5	534 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	60 %	Service factor		: 1.00	
Breakdown torqu	e : 2	200 %	Temperatu	Temperature rise : 105 K		
Rated speed	: 1	475 rpm	Design		: B	
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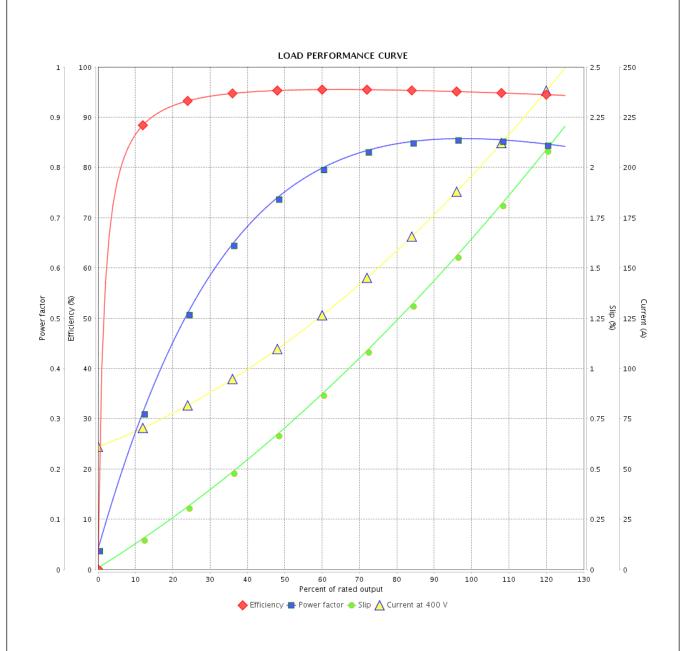
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567250

Catalog #: 15018ET3G445TS-W22

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Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 1	94 A	Moment of inertia (J)		: 66.7 sq.ft.lb	
LRC	: 5	.8	Duty cycle	Duty cycle		
Rated torque : 534 ft.lb		Insulation	Insulation class			
Locked rotor torqu	ue : 1	80 %	Service fa	Service factor Temperature rise Design		
Breakdown torque	e : 2	20 %	Temperati			
Rated speed	: 1	475 rpm	Design			
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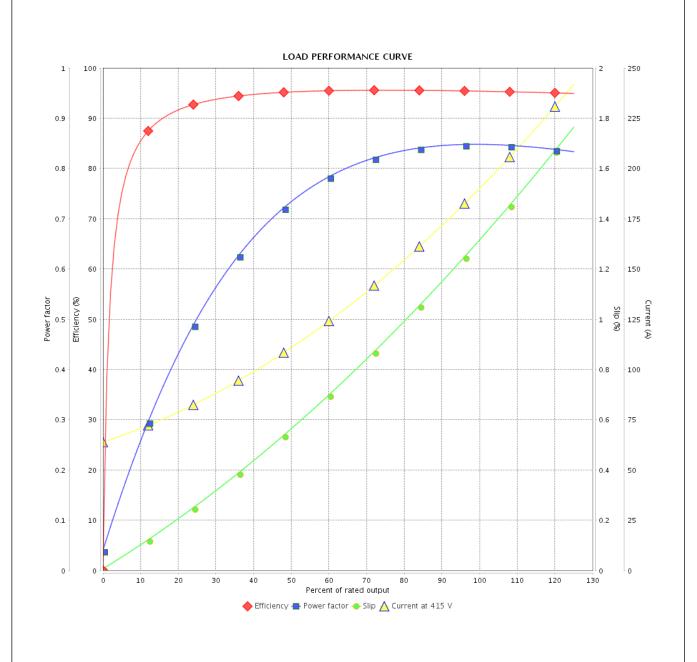


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22



Performance	: 4	15 V 50 Hz 4P IE3	i				
Rated current	: 1	: 189 A Moment o		f inertia (J)	: 66.7 sq.ft.lb		
LRC	: 6	.3	Duty cycle	<b>)</b>	: Cont.(S1)		
Rated torque	: 5	32 ft.lb	Insulation	Insulation class			
Locked rotor torqu	ie : 1	90 %	Service factor		: 1.00		
Breakdown torque	: 2	40 %	Temperatu	Temperature rise		: 105 K	
Rated speed	: 1	480 rpm	Design		: B		
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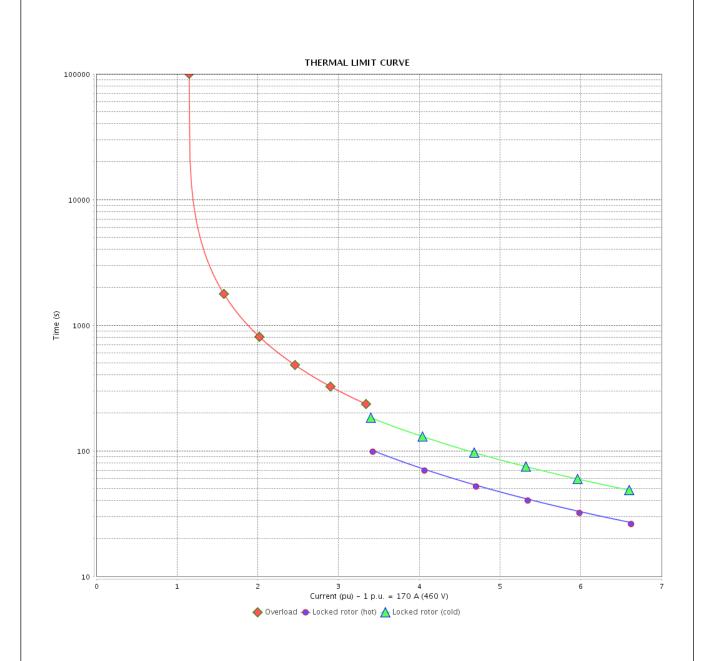


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567250 15018ET3G44	45TS-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 170 A : 6.6	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 443 ft.lb : 200 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu		: 250 %	Temperat		: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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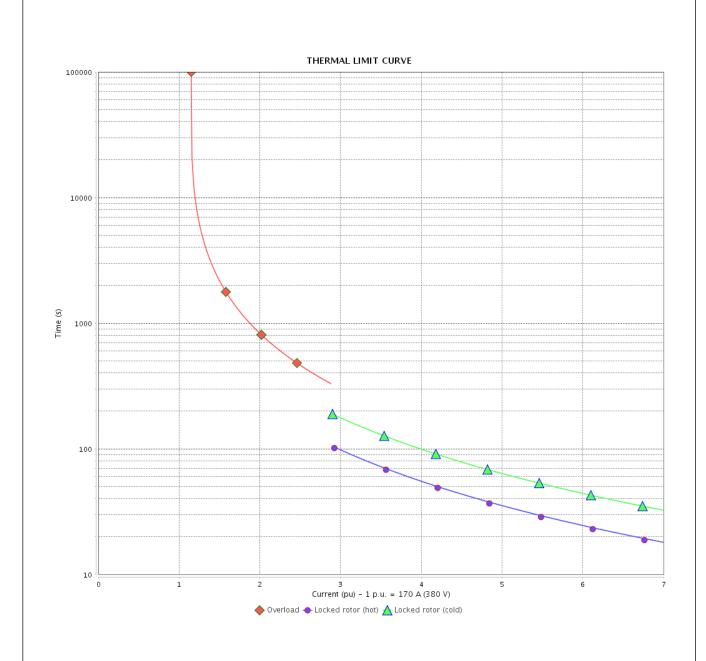


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567250 15018ET3G44	45TS-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 170 A : 7.0	Moment of Duty cycle	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 444 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
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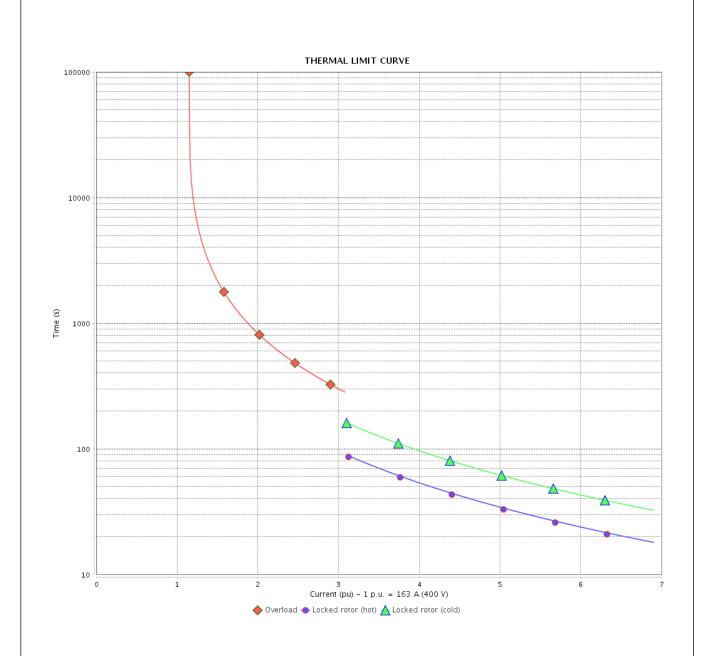


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567250 15018ET3G4	45TS-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 163 A : 6.9	Duty cycle		: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 444 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design		: B	
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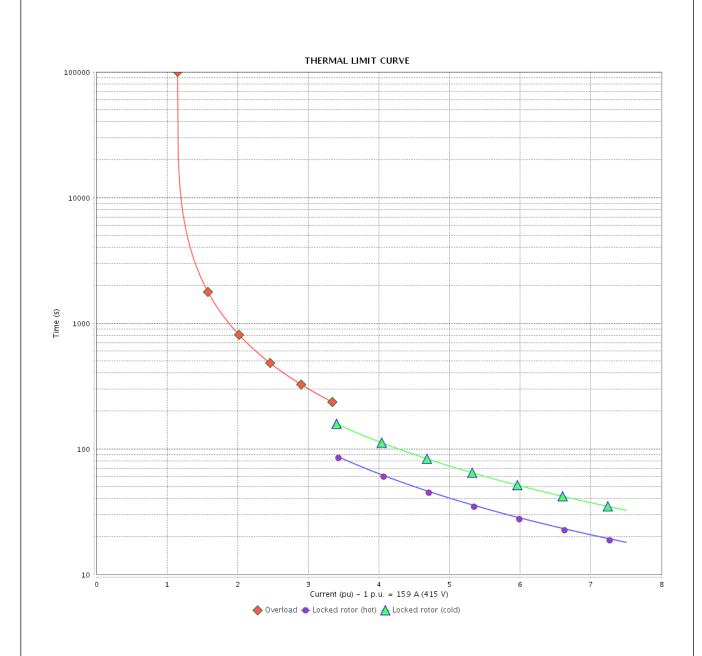


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Customer	:					
Product line		NEMA Premium Efficiency l	Γhree- I	Product code :	11567250	
			(	Catalog # :	15018ET3G4	45TS-W22
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 7.4 : 44 : 22 : : 29	59 A 5 14 ft.lb 29 % 90 % 180 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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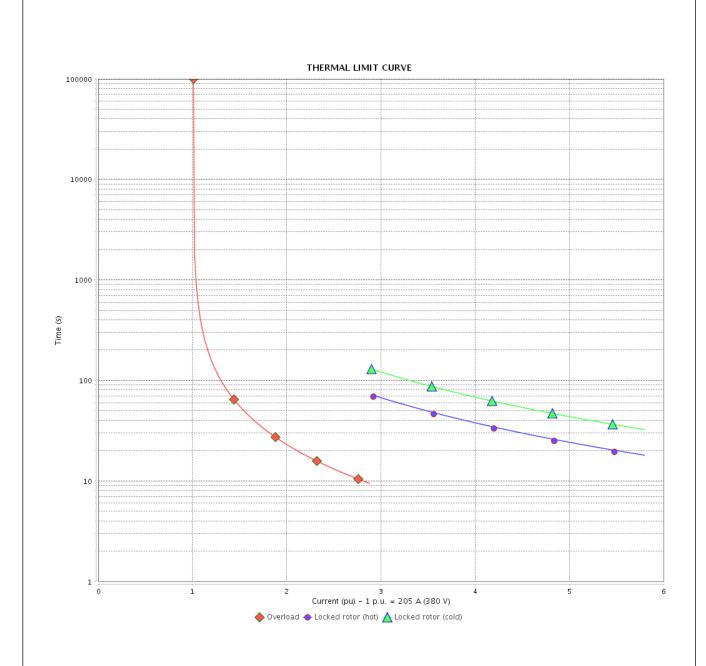


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11567250	
	,	nasc		Catalog # :	15018ET3G44	15TS-W22
Performance	 : 3	380 V 50 Hz 4P IE2				
Rated current		205 A	Moment of	f inertia (J)	: 66.7 sq.ft.lb	
LRC		5.8	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torqu		534 ft.lb 60 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 2	200 %	Temperatu		: 105 K	
Rated speed	: 1 	475 rpm	Design		: B	
Heating constant						
Cooling constant			1			
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### Three Phase Induction Motor - Squirrel Cage



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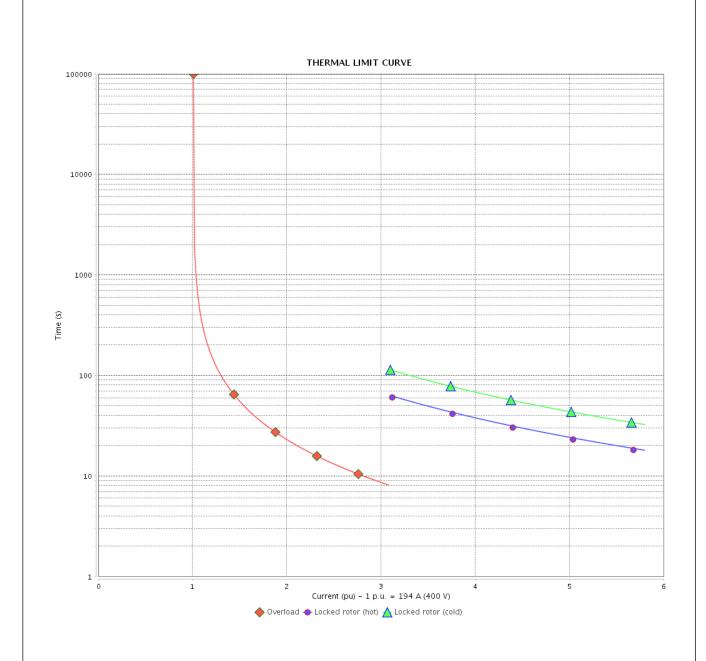


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11567250 15018ET3G44	45TS-W22
Performance	. 4	00 V 50 Hz 4P IE2				
Rated current		94 A	Moment of	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 5	.8	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque Locked rotor torqu		34 ft.lb 80 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	e : 2:	20 % 475 rpm	Temperatu Design		: 105 K : B	
Heating constant		r				
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

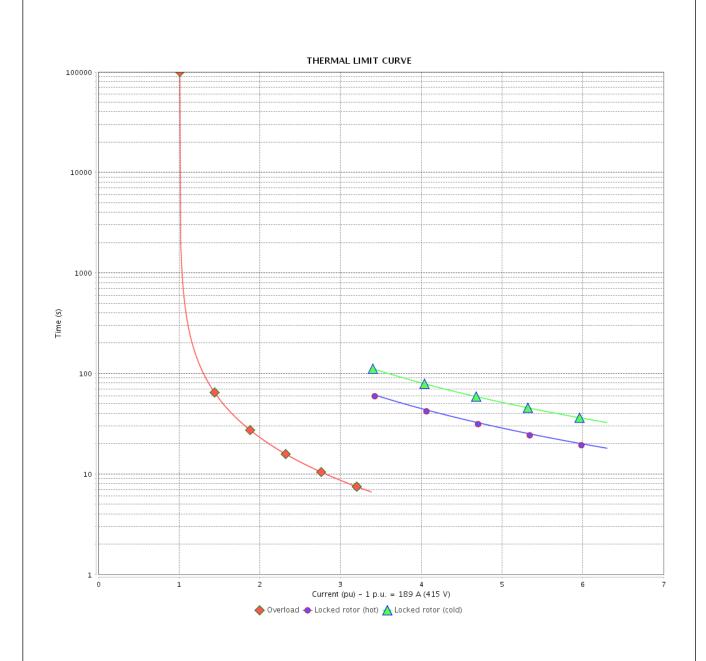


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567250 15018ET3G44	15TS-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 189 A : 6.3	Duty cycle		: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 532 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 190 % : 240 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summers		Performed	Checked	Data
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

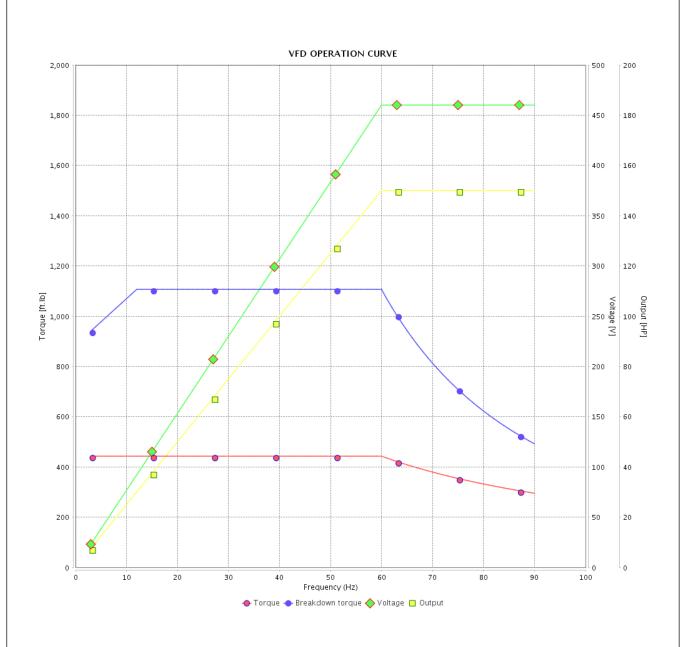
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567250

Catalog #: 15018ET3G445TS-W22

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Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170 A : 6.6 : 443 ft.lb : 200 % : 250 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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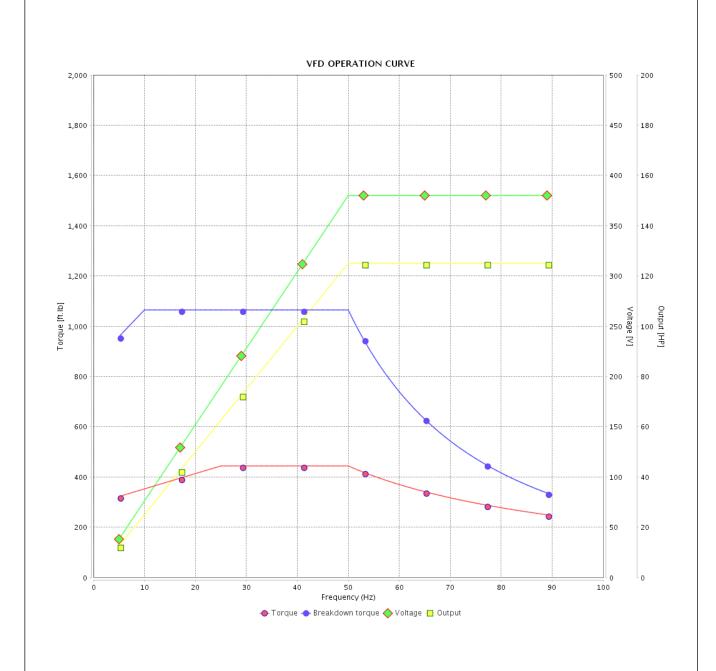
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567250

Catalog #: 15018ET3G445TS-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	: 170 A Moment of inertia (J)		f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

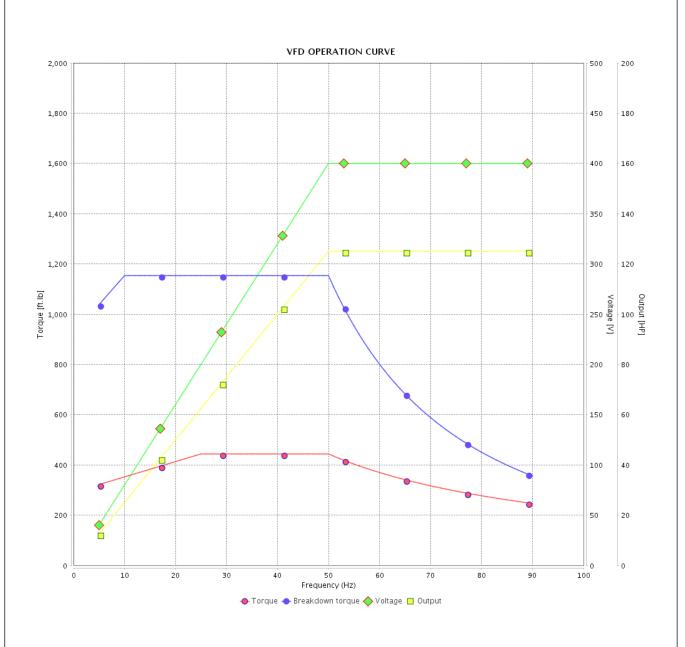
Product code: 11567250

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 163 A : 6.9 : 444 ft.lb : 220 % : 260 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

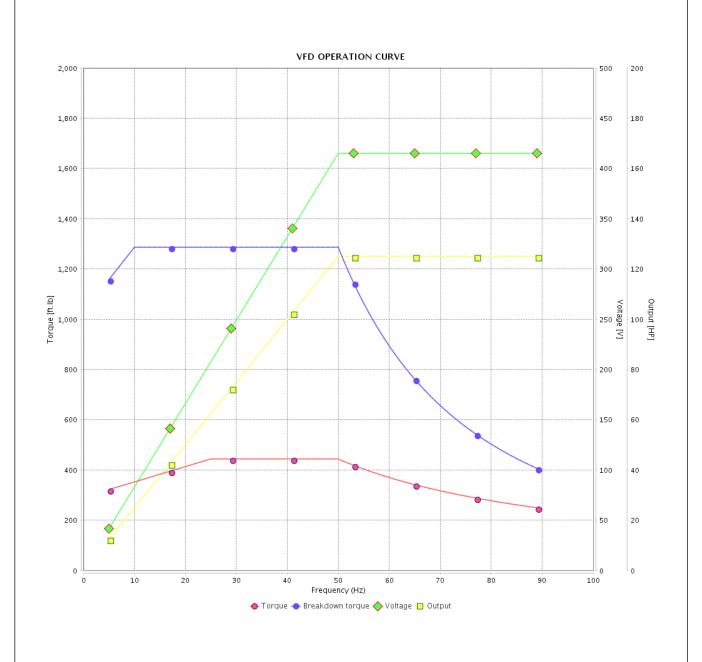


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567250

Phase

Catalog #: 15018ET3G445TS-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	59 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	.5	Duty cycle		: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	90 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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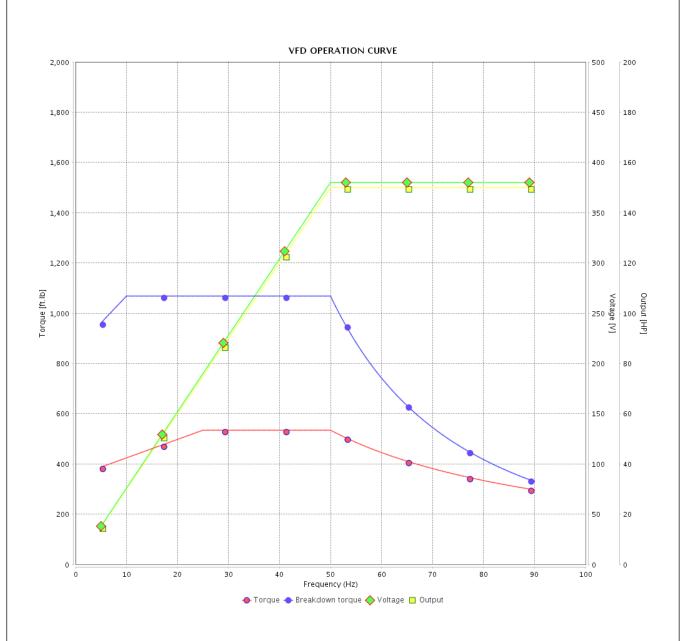
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11567250

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Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 205 A	Moment of inertia	(J)	: 66.7 sq.ft.lb	
LRC	: 5.8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 534 ft.lb	Insulation class		: F	
Locked rotor torque	: 160 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 1475 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

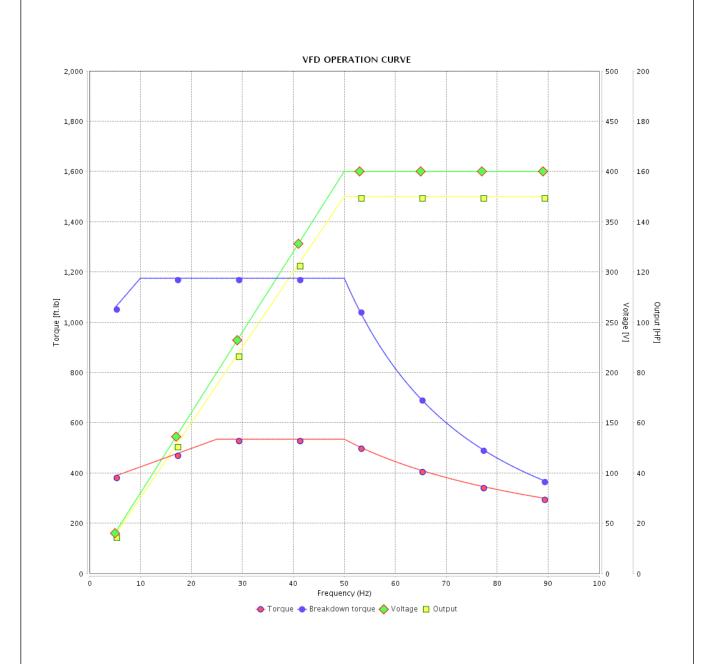
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 194 A : 5.8 : 534 ft.lb : 180 % : 220 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

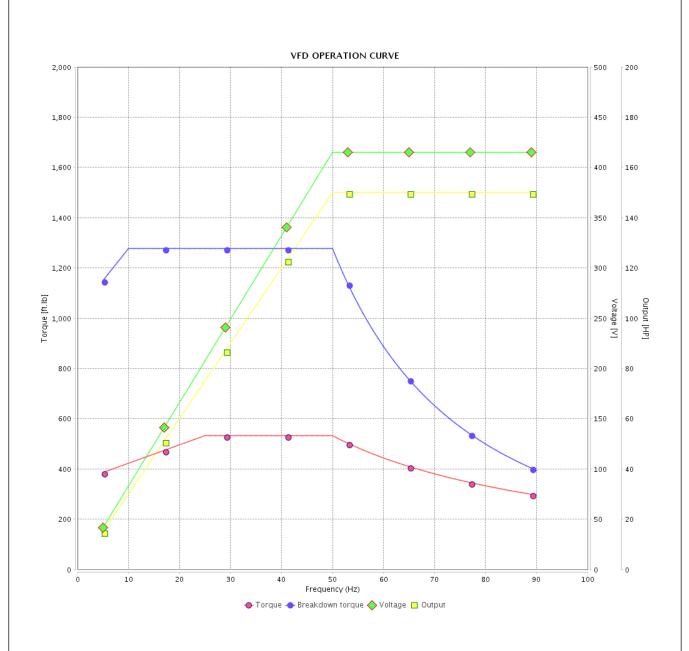
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567250

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Performance	: 415 V 50 Hz 4P IE3	: 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 189 A : 6.3 : 532 ft.lb : 190 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
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