### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

Catalog #: 02536ET3E284JP-W22

Frame : 284/6JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 410 lb

Protection degree	9	: IP55		Momer	nt of inertia (J)	) : 2	.69 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		57.6/28.8	27.9	26.8	26.1	34.9	33.3	31.8
L. R. Amperes [A]		363/181	173	185	193	171	183	191
LRC [A]		6.3x(Code	6.2x(Code	6.9x(Code H)	7.4x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
		G)	G)					
No load current [A]	ļi.	16.0/8.00	8.00	8.50	9.00	8.00	8.50	9.00
Rated speed [RPM	1]	3545	2945	2950	2955	2910	2930	2935
Slip [%]		1.53	1.83	1.67	1.50	3.00	2.33	2.17
Rated torque [ft.lb]		37.1	35.8	35.7	35.7	45.1	45.0	44.7
Locked rotor torque	e [%]	200	200	229	240	160	180	190
Breakdown torque	[%]	250	240	280	300	200	220	240
Service factor		1.25	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		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level <sup>2</sup>	-	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	90.8	89.0	89.4	88.9	91.5	91.5	90.8

90.3

91.1

91.9

0.52

0.77

0.85

89.8

91.1

91.9

0.49

0.75

0.83

 100%
 0.88
 0.89
 0.88
 0.87

 Drive end
 Non drive end
 Foundation loads

Bearing type : 6311 C3 6211 C3 Max. traction : 263 lb Sealing : V'Ring V'Ring Lubrication interval : 14000 h 17000 h

90.2

90.7

91.9

0.55

0.79

0.86

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

Notes

Efficiency (%)

Power Factor

USABLE @208V 63.0A SF 1.10 SFA 69.3A

50%

75%

100%

25%

50%

75%

91.0

91.7

91.7

0.55

0.79

0.86

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.

91.0

90.2

89.5

0.61

0.83

0.88

0.90

91.0

91.0

90.2

0.58

0.81

0.87

0.89

91.0

91.0

91.0

0.55

0.80

0.86

0.89

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#### Three Phase Induction Motor - Squirrel Cage



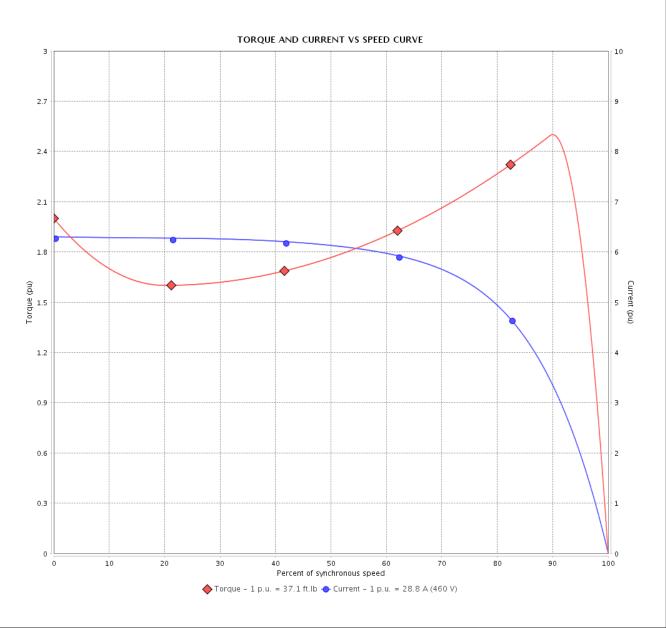
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12602715

Catalog #: 02536ET3E284JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 57.6/28.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 37.1 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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### Three Phase Induction Motor - Squirrel Cage

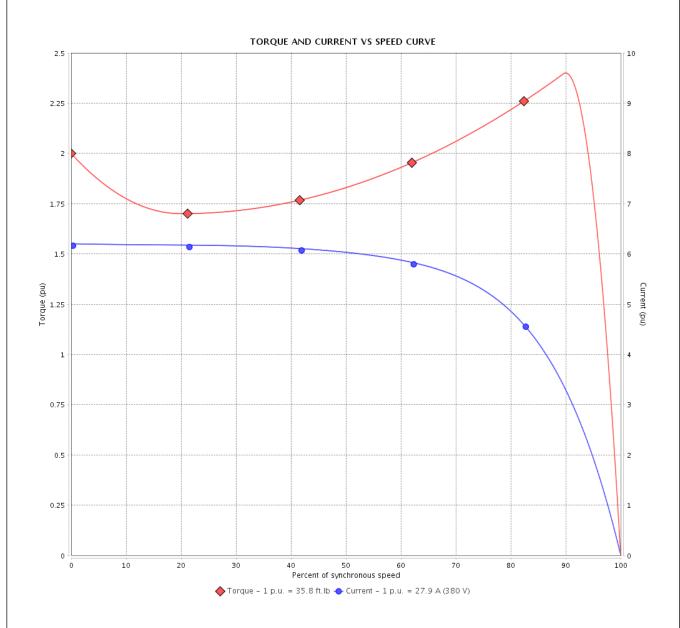


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

Catalog #: 02536ET3E284JP-W22



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 27.9 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 35.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2945 rpm	Design	: B	

Locked rotor time : 25s (cold) 14s (hot)

LOCKCO TOTOL UITIN	. 2	03 (cold) 143 (flot)			
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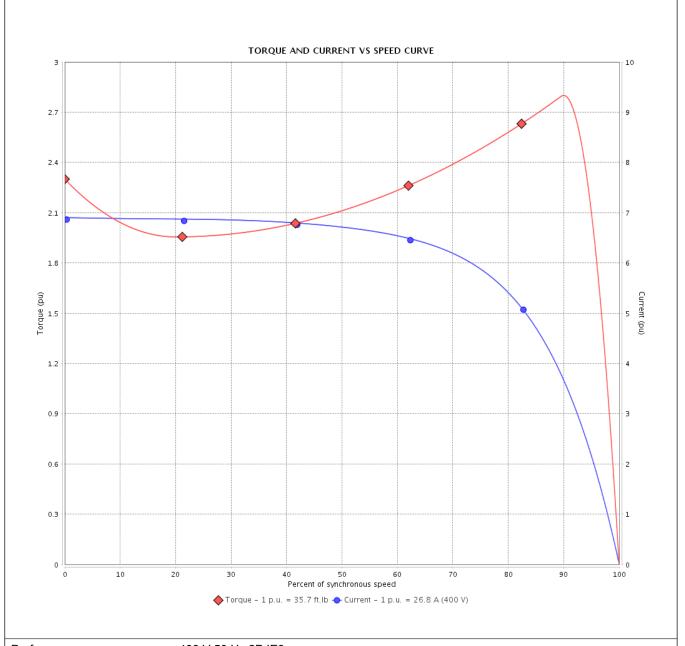
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12602715

Catalog #: 02536ET3E284JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 26.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 35.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

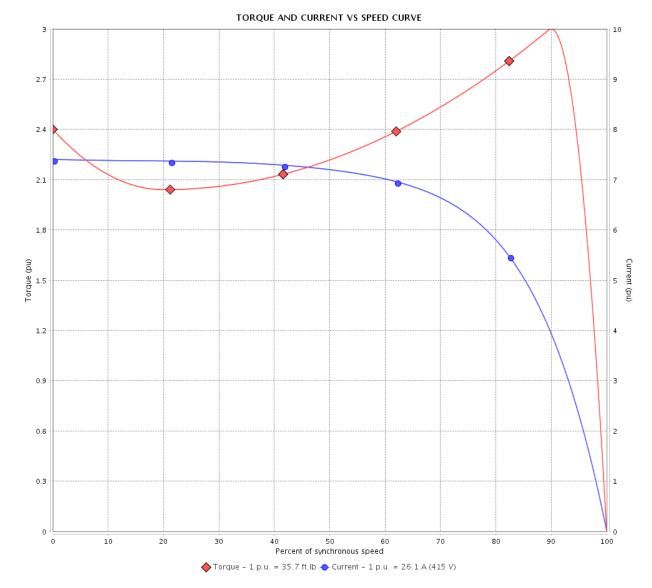
Locked rotor time : 25s (cold) 14s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12602715 Catalog #: 02536ET3E284JP-W22



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 26.1 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2955 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

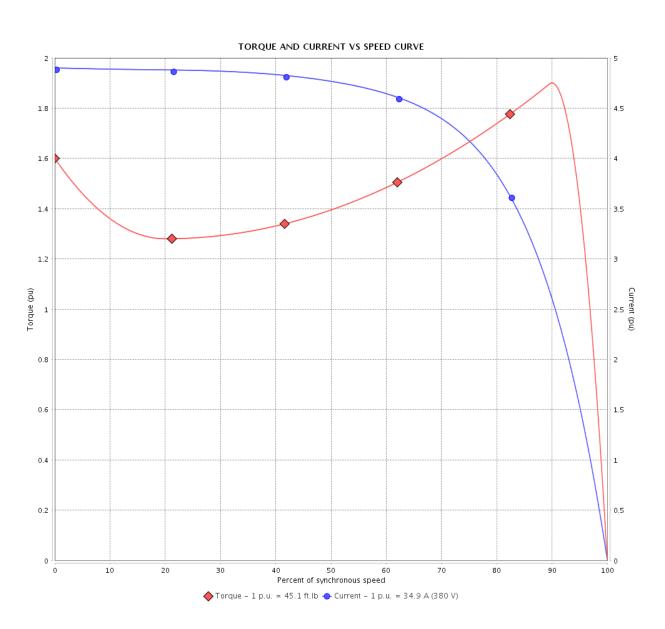
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

12602715

02536ET3E284JP-W22



Performance	: 380 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.9 A : 4.9 : 45.1 ft.lb : 160 % : 200 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 25s (cold) 14s (hot)			

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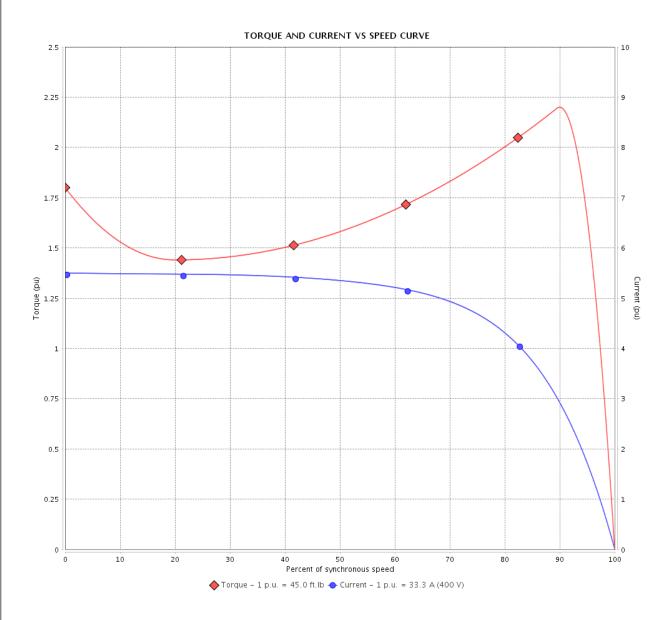


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12602715

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Catalog #: 02536ET3E284JP-W22



Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 33.3 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 45.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 2930 rpm	Design	: B	

Locked rotor time : 25s (cold) 14s (hot)

LOCKCU TOLOT LITTLE	. 2	03 (cold) 143 (flot)			
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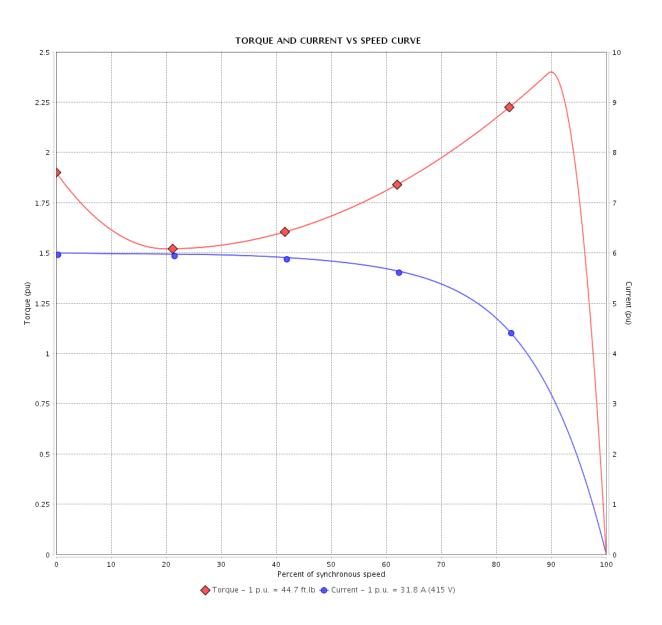


Customer

Product line : NEMA Premium Efficiency Three-Product code:

12602715

Catalog #: 02536ET3E284JP-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 31.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 44.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2935 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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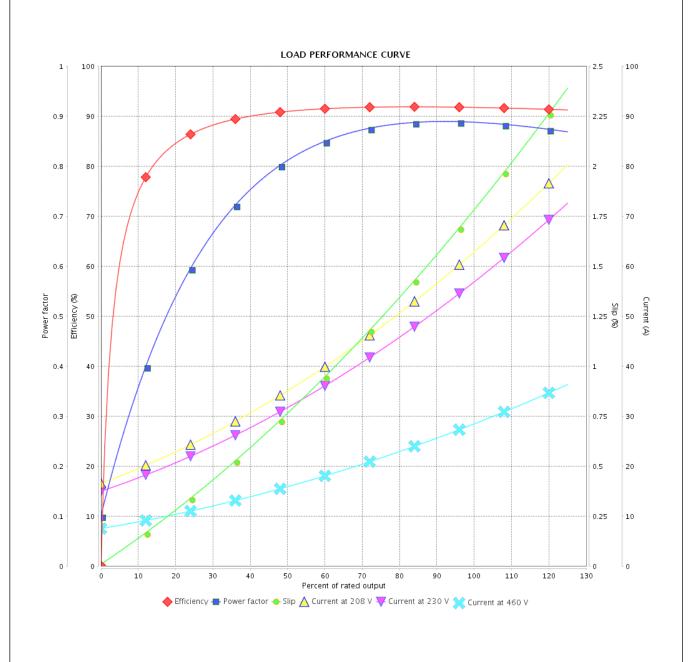


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

Catalog #: 02536ET3E284JP-W22



Performance	rmance : 230/460 V 60 Hz 2P					
Rated current	Rated current : 57.6/28.8 A		Moment o	Moment of inertia (J)		
LRC	:	6.3	Duty cycle		: Cont.(S1)	
Rated torque	ted torque : 37.1 ft.lb Insul		Insulation	class	: F	
Locked rotor torque	sked rotor torque : 200 % Service factor		ctor	: 1.25		
Breakdown torque	:	250 %	Temperati	Temperature rise : 80 K		
Rated speed		3545 rpm	Design	Design : B		
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Phase

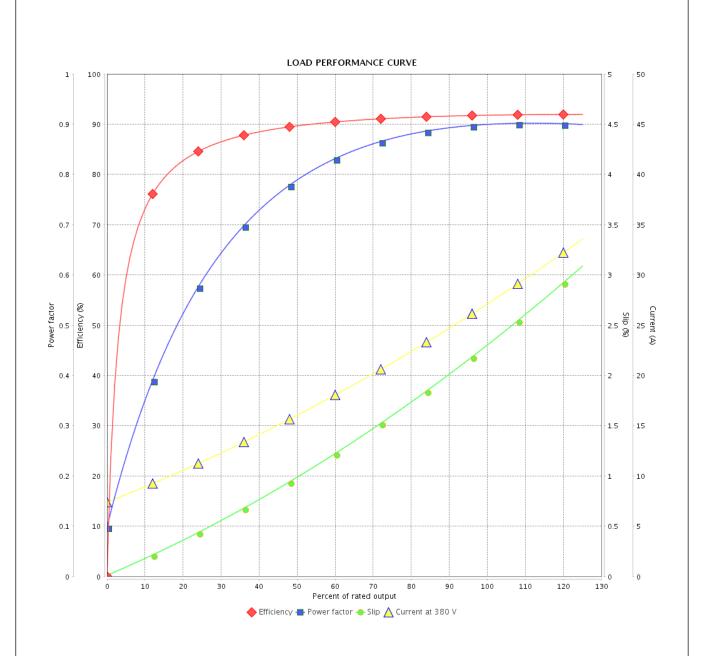
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Performance : 380 V 50 Hz 2P IE3 : 27.9 A Rated current Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 35.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

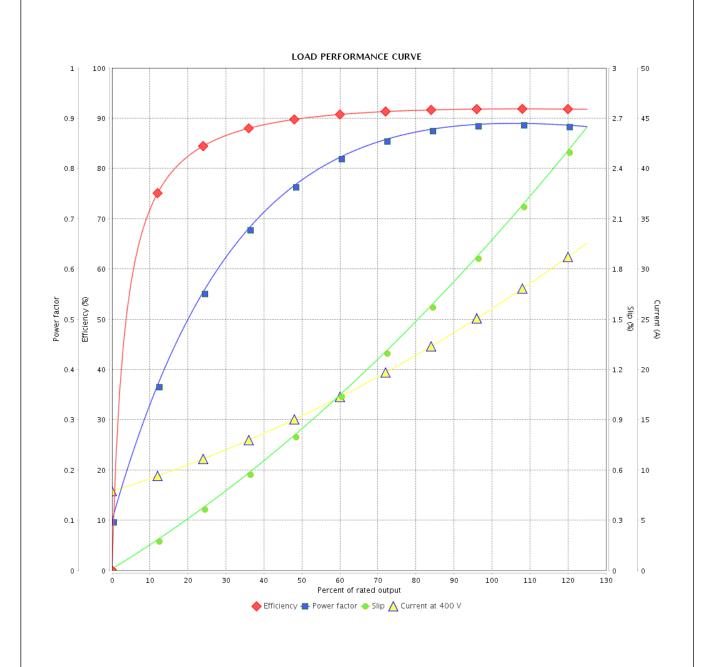


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

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Performance	: 40	: 400 V 50 Hz 2P IE3					
Rated current	: 26	26.8 A Moment of inertia (J)		f inertia (J)	: 2.69 sq.ft.lb		
LRC	: 6.	9	Duty cycle	•	: Cont.(S1)		
Rated torque	: 35	5.7 ft.lb	Insulation	Insulation class			
Locked rotor torqu	ie : 22	29 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 28	30 %	Temperat	Temperature rise			
Rated speed : 295		950 rpm	Design		: B		
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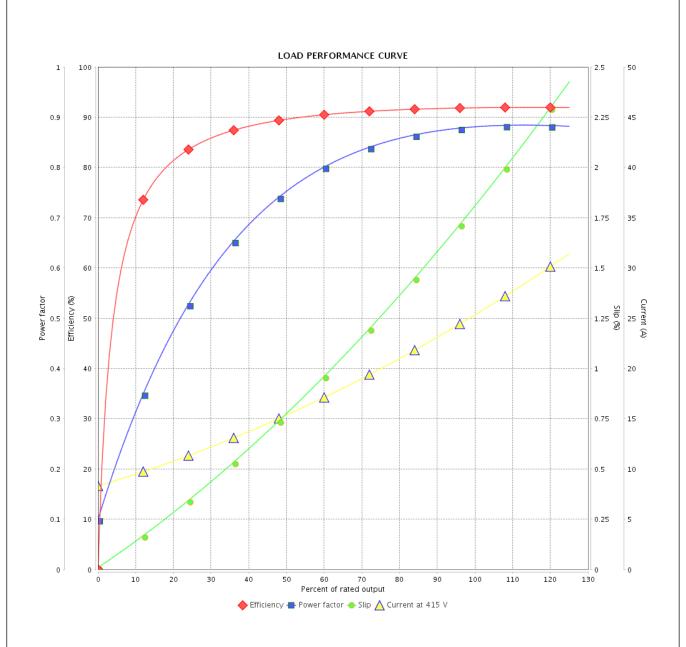
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Phase

Product code: 12602715

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Performance : 415 V 50 Hz 2P IE3 Rated current : 26.1 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.7 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



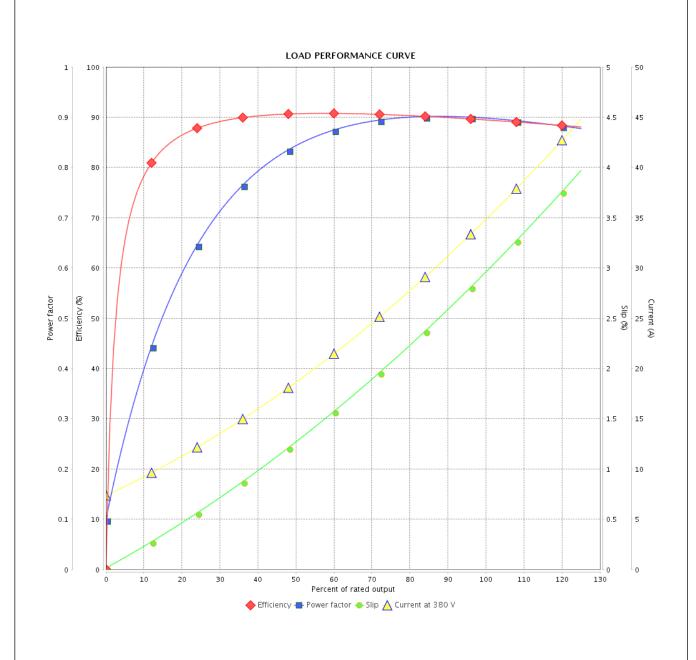
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Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

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Performance	: 380 V 50 Hz 2P IE1				
Rated current : 34.9 A LRC : 4.9 Rated torque : 45.1 ft.lb Locked rotor torque : 160 % Breakdown torque : 200 % Rated speed : 2910 rpm		Moment of inertia (J) : 2.69 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 105 K  Design : B			
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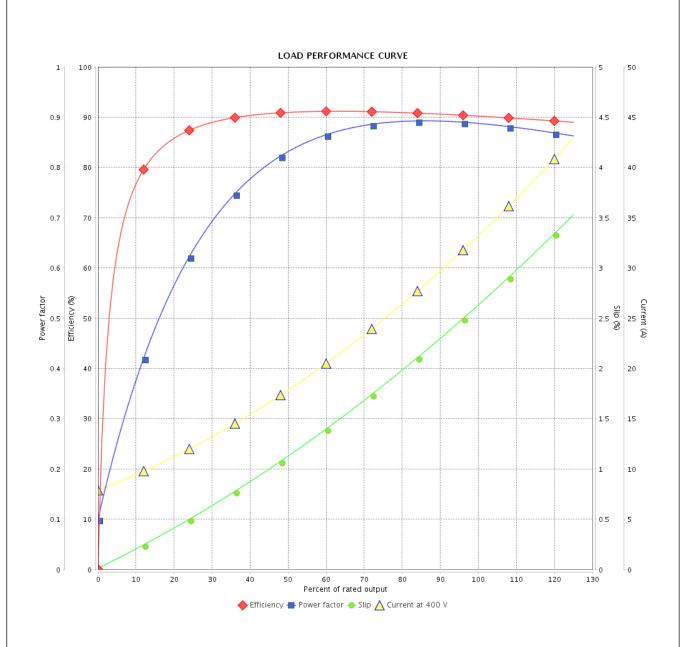
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Performance	: 400 V 50 Hz 2	P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 33.3 A : 5.5 : 45.0 ft.lb : 180 % : 220 % : 2930 rpm		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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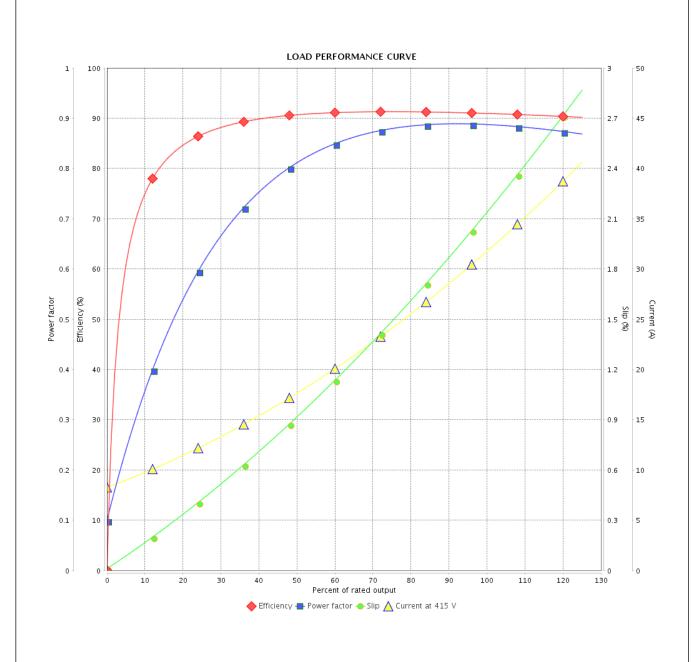
Customer

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Phase

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.8 A : 6.0 : 44.7 ft.lb : 190 % : 240 % : 2935 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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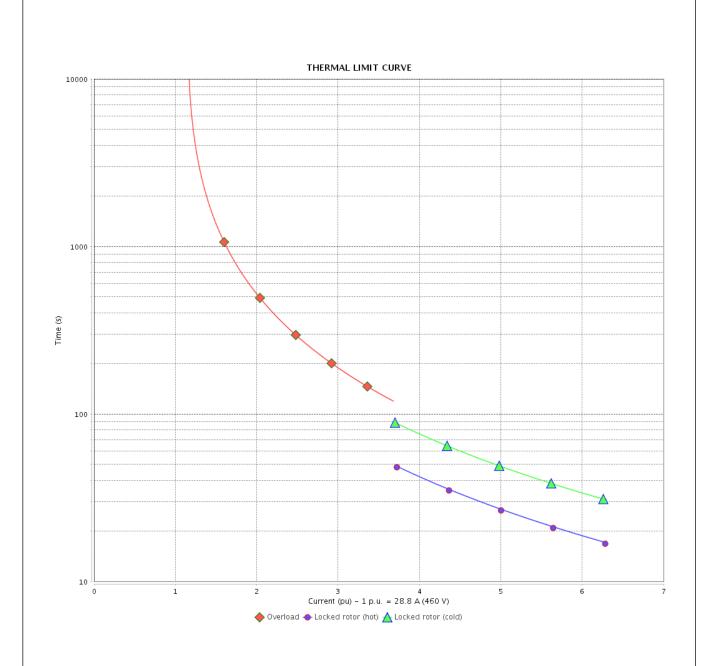


Customer	:				-	
Product line		NEMA Premium Efficiency	Three-	Product code :	12602715	
	PI	hase		Catalog # :	02536ET3E2	84JP-W22
Performance Rated current		30/460 V 60 Hz 2P 7.6/28.8 A	Moment -	finartia (I)	. 2 60 02 4 15	
LRC	: 6.	3	Duty cycle	of inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		7.1 ft.lb 00 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque	: 25	50 %	Temperatu		: 80 K	
Rated speed		545 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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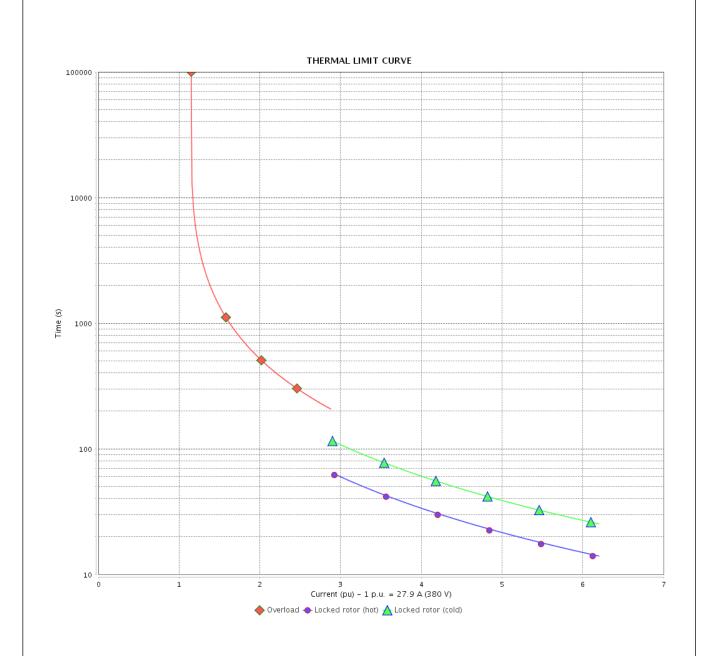


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12602715 02536ET3E28	34JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27 : 6. : 35 ue : 20 e : 22	30 V 50 Hz 2P IE3 7.9 A 2 5.8 ft.lb 00 % 40 % 945 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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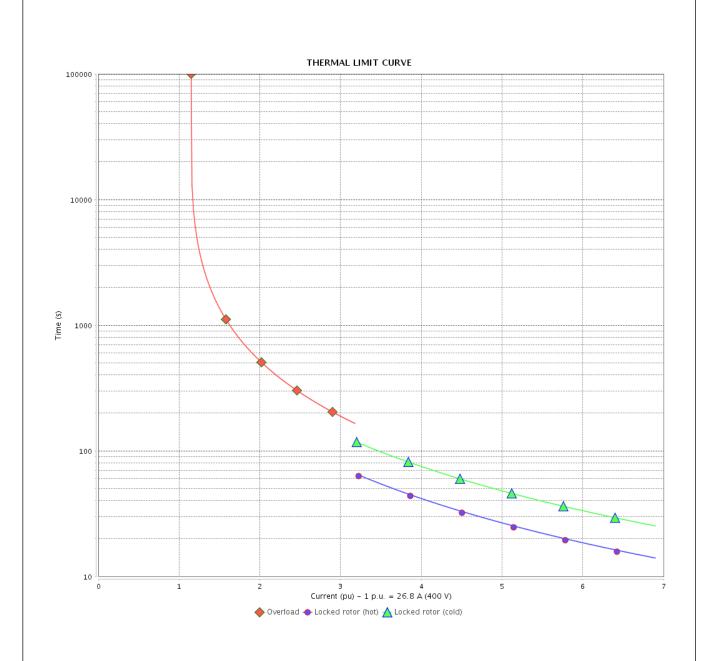


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12602715 02536ET3E28	34JP-W22
Performance Rated current LRC Rated torque Locked rotor torque	: 26 : 6. : 38	5.7 ft.lb 29 %	Duty cycle Insulation Service fa	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed Heating constant		30 % 950 rpm	Temperatu Design	ıre rise	: 80 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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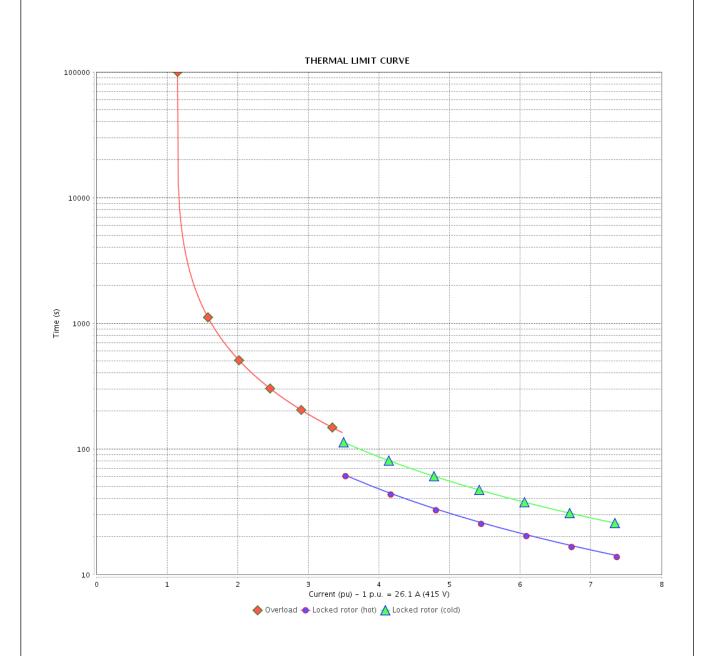


Customer	·				_
Gustonia	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12602715	
	1 HdSC		Catalog # :	02536ET3E28	34JP-W22
Performance	: 415 V 50 Hz 2P IE3	Moment -	finartic (1)	. 2 60 00 4 15	
Rated current LRC	: 26.1 A : 7.4	Duty cycle	f inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 % : 300 %	Service fa		: 1.00 : 80 K	
Breakdown torque Rated speed	: 300 % : 2955 rpm	Temperatu Design	are rise	: 80 K : B	
Heating constant					
Cooling constant					
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## Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

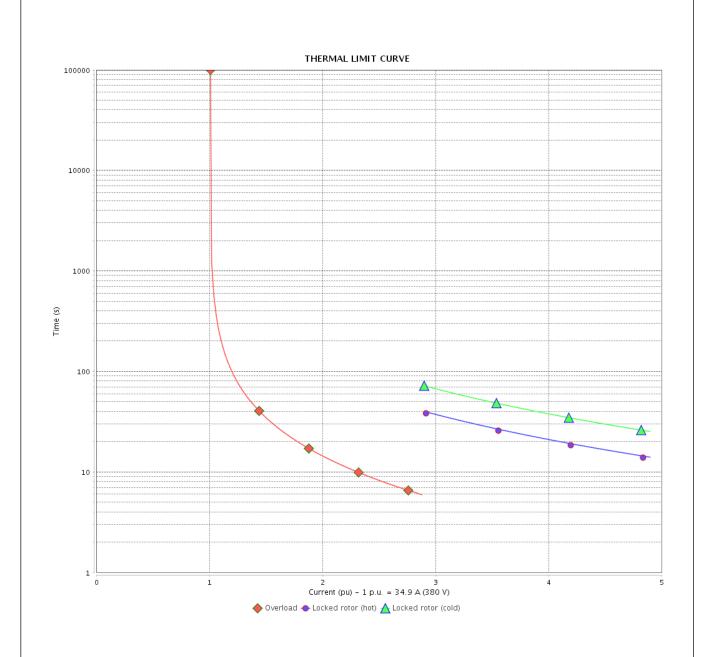


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12602715 02536ET3E28	34JP-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current		: 34.9 A	Moment of	of inertia (J)	: 2.69 sq.ft.lb	
LRC Rated torque		: 4.9 : 45.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 160 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 200 % : 2910 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant	t					
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Customer



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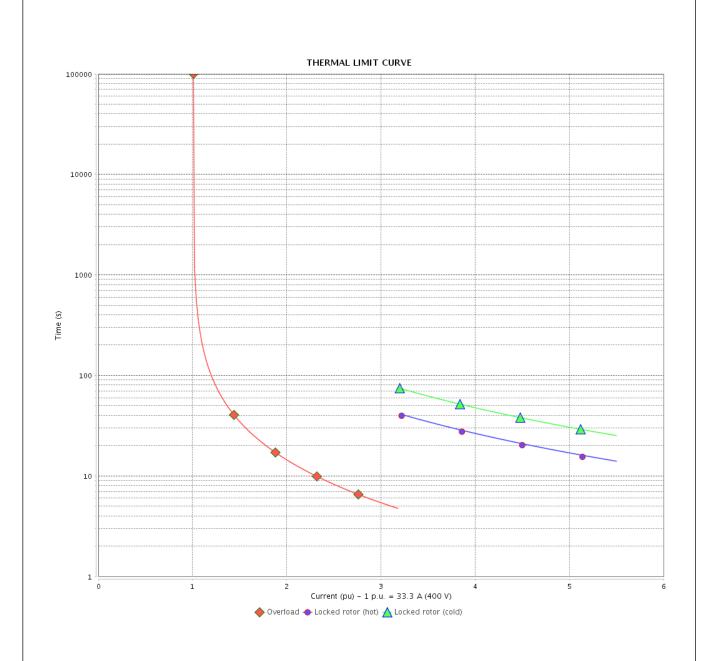


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	12602715 02536ET3E2	84JP-W22
Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.3 A : 5.5 : 45.0 ft.lb : 180 % : 220 % : 2930 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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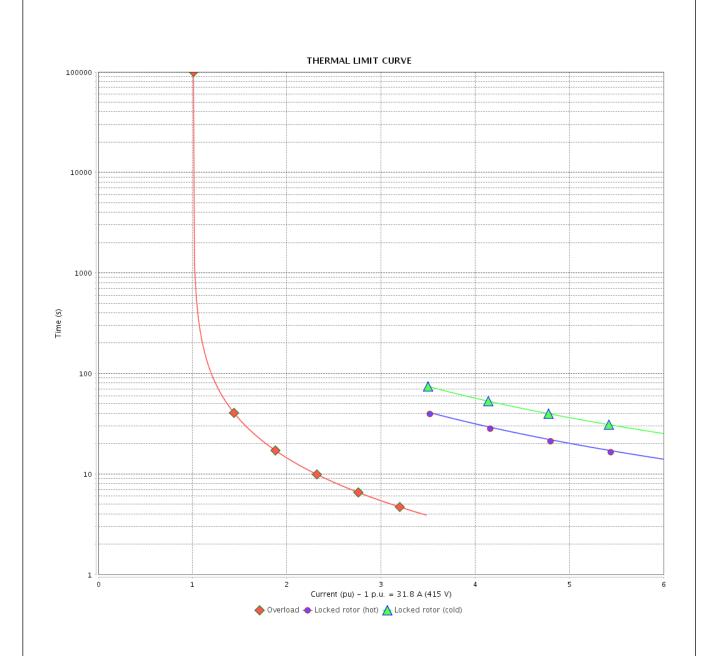


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12602715	
		Phase		Catalog # :	02536ET3E28	34.JP-W22
				-		
Performance		: 415 V 50 Hz 2P IE2		· · · · · · · · · · · · · · · · · · ·	0.00 6.11	
Rated current LRC		: 31.8 A : 6.0	Moment o   Duty cycle	of inertia (J) e	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque		: 44.7 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		: 190 % : 240 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2935 rpm	Design	a. 5 1100	: B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Checked by	14/04/2022				Page 28 / 36	Revision

## Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

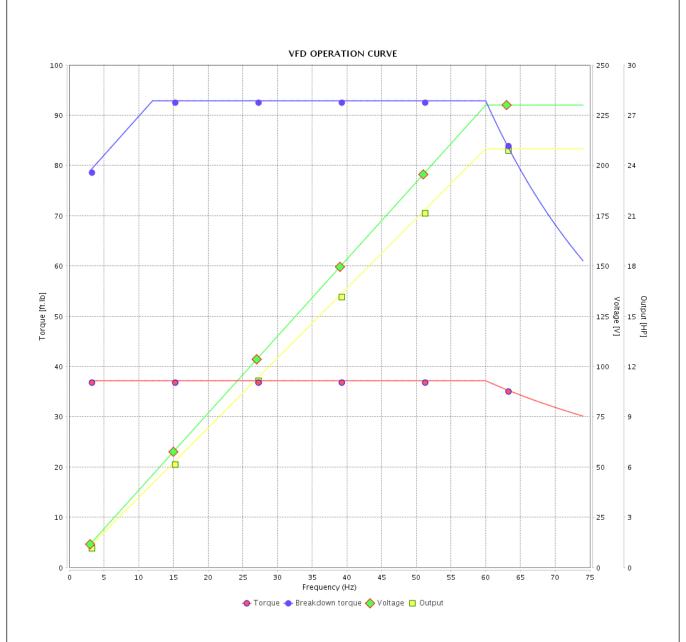
Catalog #: 02536ET3E284JP-W22

12602715

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Performance : 230/460 V 60 Hz 2P Rated current : 57.6/28.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 37.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



Customer

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Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12602715

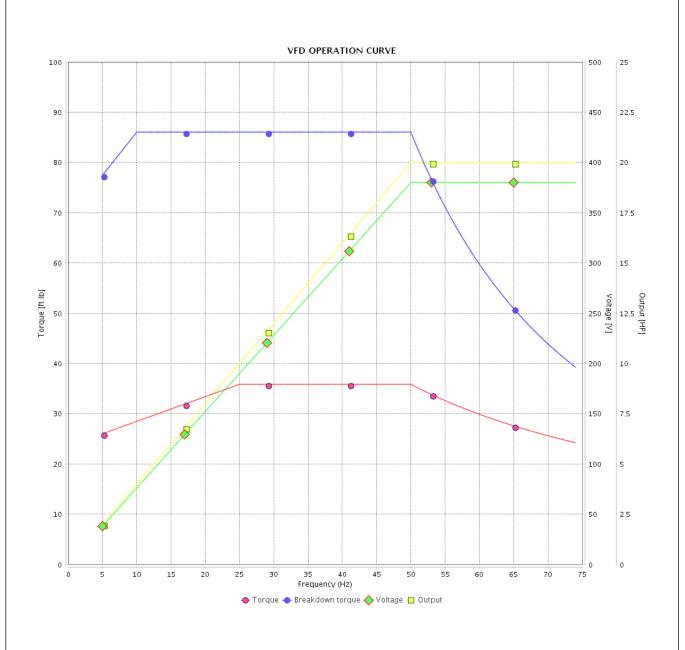
Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC	: 27.9 A : 6.2		f inertia (J)	: 2.69 sq.ft.lb	
Rated torque	: 35.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 240 %	Temperati	ure rise	: 80 K	
Rated speed	: 2945 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer :

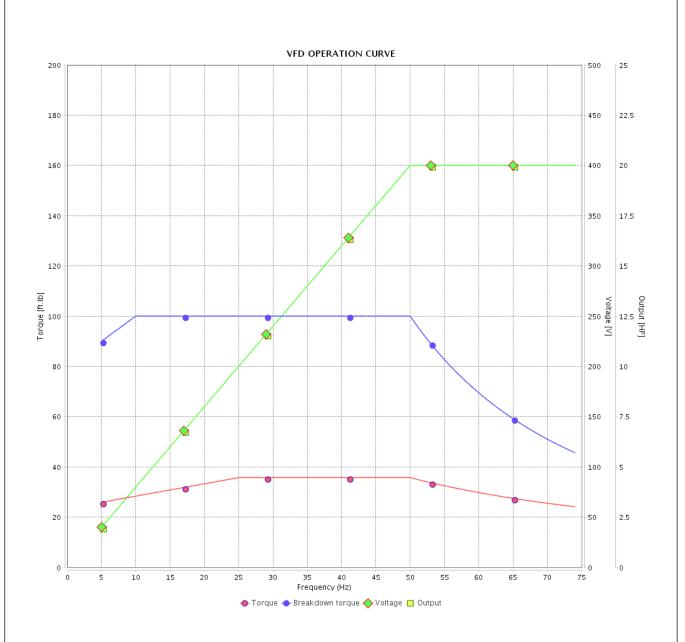
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 400 V 50 Hz 2P IE	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summ	nary	Performed	Checked	Date
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Date

#### Three Phase Induction Motor - Squirrel Cage



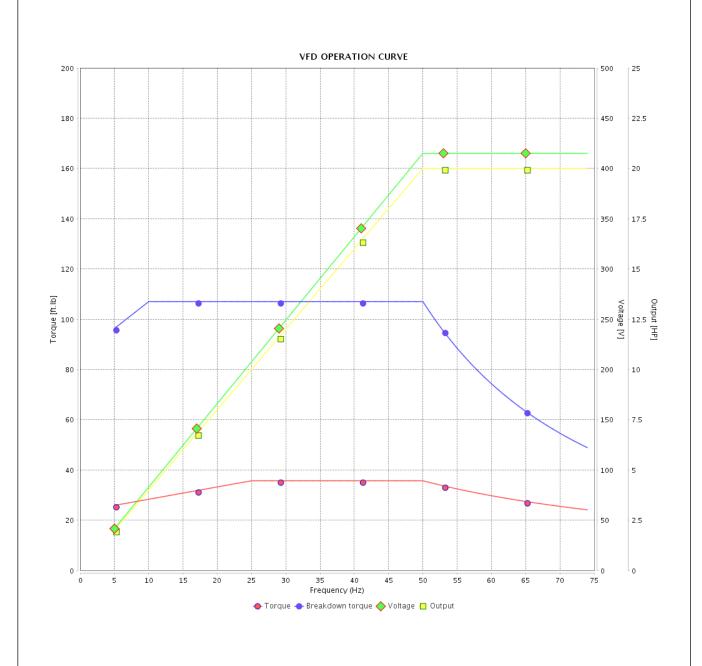
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12602715

Phase

Catalog #: 02536ET3E284JP-W22

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Rated current : 26.1 A	Performance	: 415 V 50 Hz 2P IE3				
Performed by	LRC : 7.4 Duty cy Rated torque : 35.7 ft.lb Insulation Locked rotor torque : 240 % Service Breakdown torque : 300 % Temper		Duty cycle Insulation Service fa Temperat	Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		
-	Rev.	Changes Summary		Performed	Checked	Date
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	Checked by				Page	Revision

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

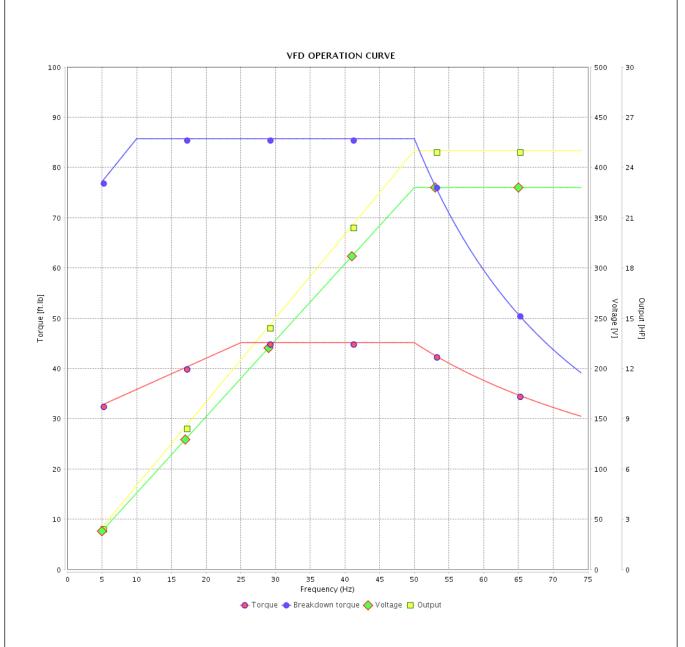
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Performance	: 3	880 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 4 que : 1 ue : 2	84.9 A 4.9 45.1 ft.lb 160 % 200 % 2910 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

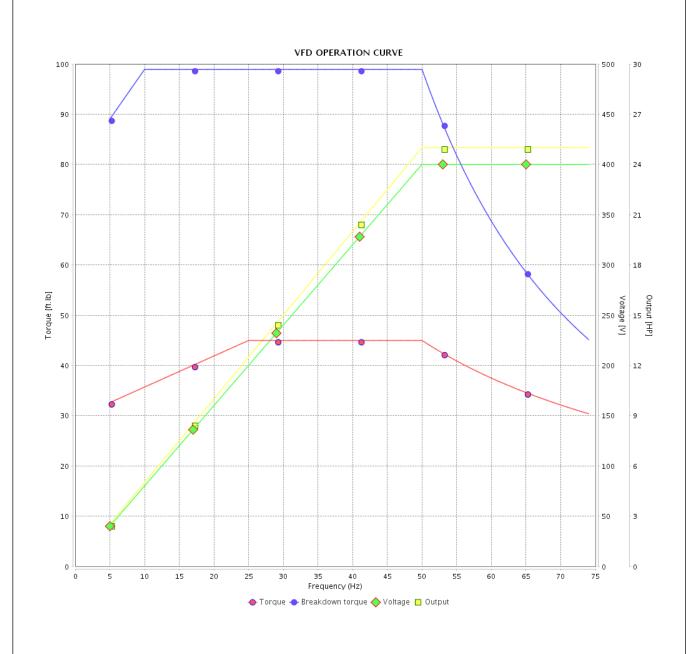
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Performance : 400 V 50 Hz 2P IE1 : 33.3 A Rated current Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 45.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

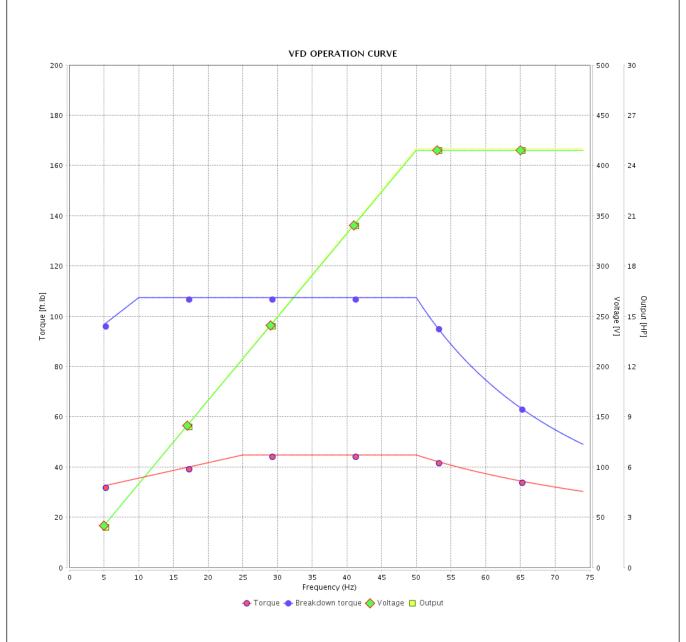
14/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12602715

Catalog #: 02536ET3E284JP-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 31.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 : 44.7 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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