DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472774

Catalog #: 01536ET3E215JP-W22

Frame : 213/5JP Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

Altitude		: 1000 m.a.	s.l.	Approx	weight³	: 1	80 lb	
Protection degree	е	: IP55		Momer	nt of inertia (J)) : C	0.6362 sq.ft.lb	
Design		: A						
Output [HP]		15	10	10	10	15	15	15
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]		34.0/17.0	14.5	14.1	14.0	20.6	19.7	19.3
L. R. Amperes [A]		269/134	125	133	140	134	142	149
LRC [A]		7.9x(Code J)	8.6x(Code K)	9.4x(Code L)	10.0x(Code	6.5x(Code	7.2x(Code H)	7.7x(Code J)
					M)	G)		
No load current [A]]	11.6/5.80	5.60	6.20	6.70	5.60	6.20	6.70
Rated speed [RPN	1]	3520	2940	2945	2950	2885	2900	2910
Slip [%]		2.22	2.00	1.83	1.67	3.83	3.33	3.00
Rated torque [ft.lb]		22.4	17.9	17.8	17.8	27.3	27.2	27.1
Locked rotor torqu	e [%]	240	280	320	340	190	220	240
Breakdown torque	[%]	280	340	380	420	220	250	280
Service factor		1.25	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		21s (cold)	21s (cold)	21s (cold)	21s (cold)	10s (cold)	12s (cold)	12s (cold)
		12s (hot)	12s (hot)	12s (hot)	12s (hot)	6s (hot)	7s (hot)	7s (hot)
Noise level ²		68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	90.2	89.5	89.0	88.5	88.5	89.0	89.5
Liliciency (70)	75%	91.0	90.1	90.1	90.1	89.0	89.5	90.0
	100%	91.0	90.1	90.1	90.1	89.0	89.7	90.0
	25%							
Power Factor	50%	0.76	0.72	0.68	0.64	0.81	0.78	0.75
FUWEI FACIOI	75%	0.85	0.82	0.79	0.77	0.88	0.86	0.84

Drive end Non drive end Foundation loads

0.85

0.83

6309 Z C3 Bearing type 6207 ZZ Max. traction : 337 lb V'Ring Sealing V'Ring Max. compression : 518 lb

40000 h

0.87

Lubricant amount 0 g 13 g

0.89

19000 h

100%

Mobil Polyrex EM Lubricant type

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.

0.91

0.90

0.88

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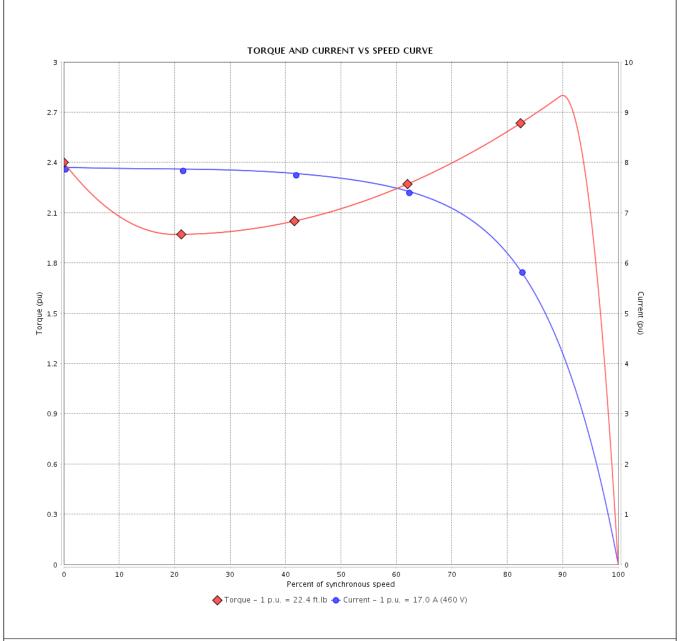


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 34.0/17.0 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : F : 22.4 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 240 % : 1.25 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 3520 rpm Design : A

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13472774 Catalog #: 01536ET3E215JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.9 ft.lb ◆ Current - 1 p.u. = 14.5 A (380 V)

: 380 V 50 Hz 2P IE3			
: 14.5 A	Moment of inertia (J)	: 0.6362 sq.ft.lb	
: 8.6	Duty cycle	: Cont.(S1)	
: 17.9 ft.lb	Insulation class	:F ^	
: 280 %	Service factor	: 1.15	
: 340 %	Temperature rise	: 80 K	
: 2940 rpm	Design	: A	
: 21s (cold) 12s (hot)	l		
	: 8.6 : 17.9 ft.lb : 280 % : 340 % : 2940 rpm	: 8.6 : 17.9 ft.lb : 280 % : 340 % : 2940 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 8.6 Duty cycle : Cont.(S1) : 17.9 ft.lb Insulation class : F : 280 % Service factor : 1.15 : 340 % Temperature rise : 80 K : 2940 rpm Design : A

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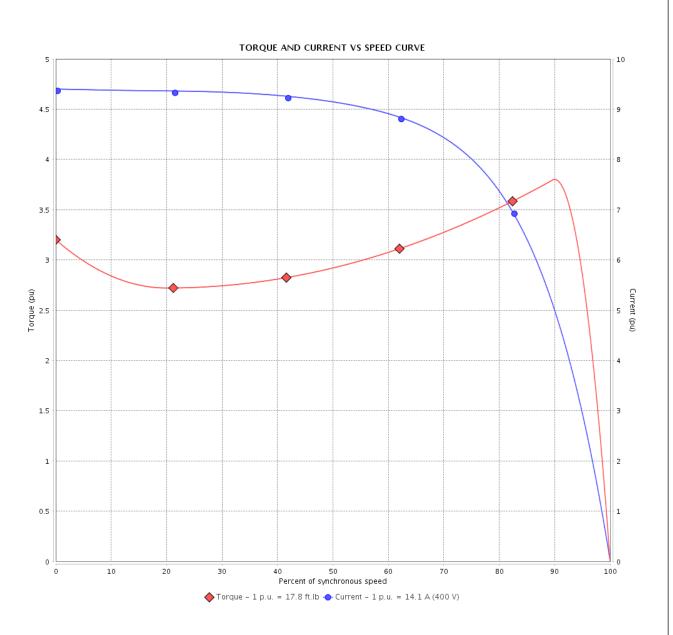


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 14.1 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 9.4 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 17.8 ft.lb Locked rotor torque : 320 % Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2945 rpm Design : A Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13472774 Catalog #: 01536ET3E215JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 18 16 3.5 Torque (pu) Current 0.5 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 14.0 A (415 V)

Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 10.0 : 17.8 ft.lb : 340 % : 420 % : 2950 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design	` ,	: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Locked rotor time	: 21s (cold) 12s (hot) Changes Summary		Performed	Checked	Date

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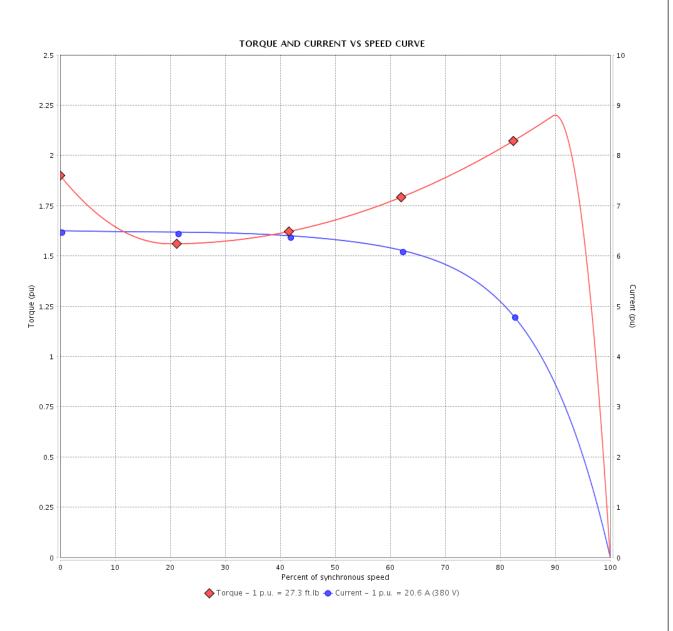


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 13472774

Catalog #: 01536ET3E215JP-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 20.6 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 27.3 ft.lb Service factor Locked rotor torque : 190 % : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 2885 rpm Design : A

Locked rotor time : 10s (cold) 6s (hot)

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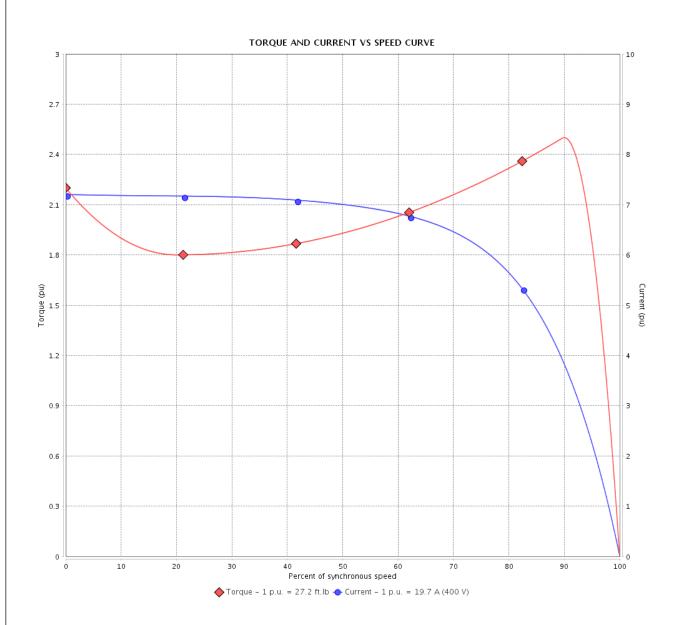


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 19.7 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 27.2 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: A

Locked rotor time : 12s (cold) 7s (hot)

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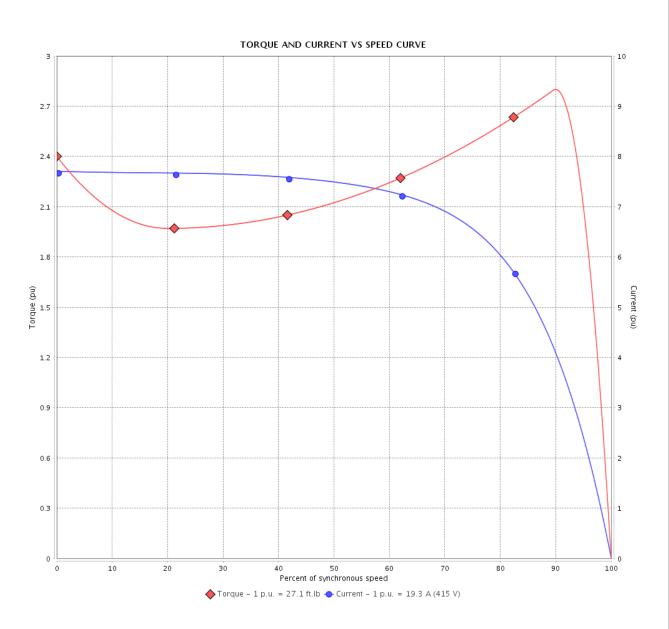


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 19.3 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 27.1 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: A

Locked rotor time : 12s (cold) 7s (hot)

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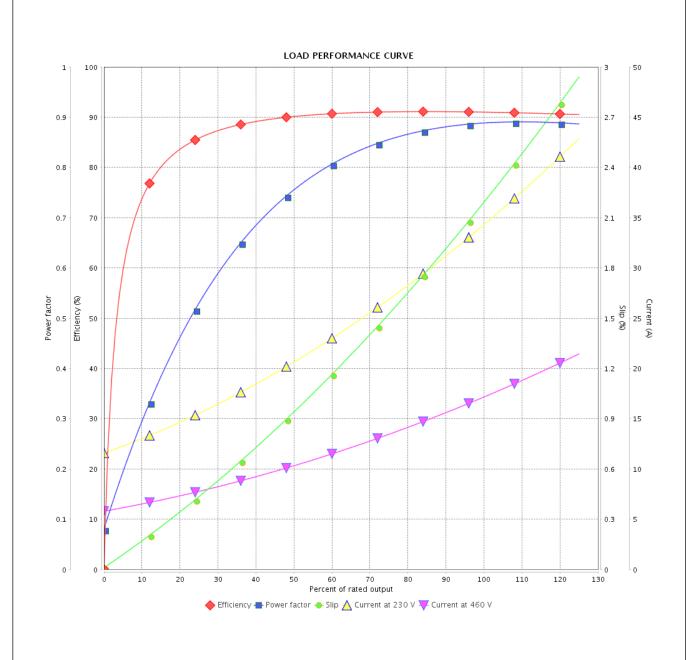
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0/17.0 A : 7.9 : 22.4 ft.lb : 240 % : 280 % : 3520 rpm	Duty cycle : Co Insulation class : F Service factor : 1.2		: 1.25 : 80 K	lb
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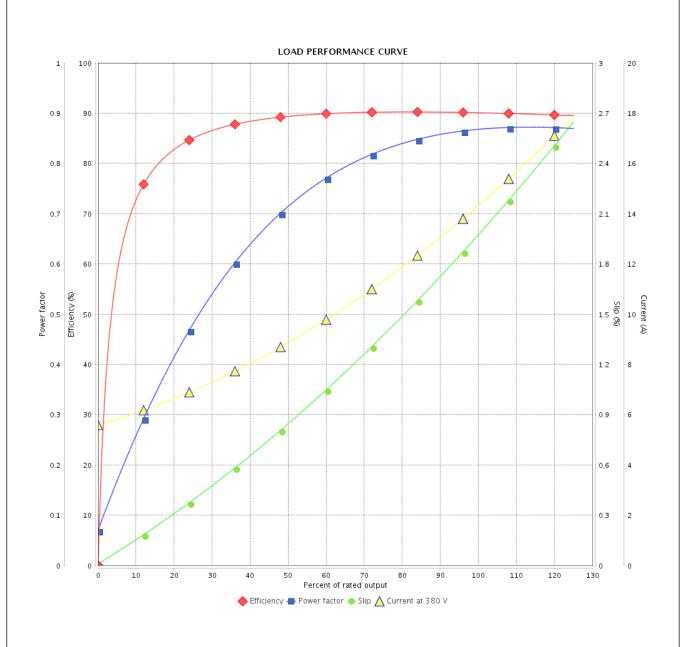
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Phase

Product code: 13472774

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Performance : 380 V 50 Hz 2P IE3					
Rated current	: 14.5 A	Moment of inertia (J)		: 0.6362 sq.ft.lb	
LRC	: 8.6	Duty cycle		: Cont.(S1)	
Rated torque	: 17.9 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque	: 280 %	Service factor Temperature rise Design		: 1.15 : 80 K : A	
Breakdown torque	: 340 %				
Rated speed	: 2940 rpm				
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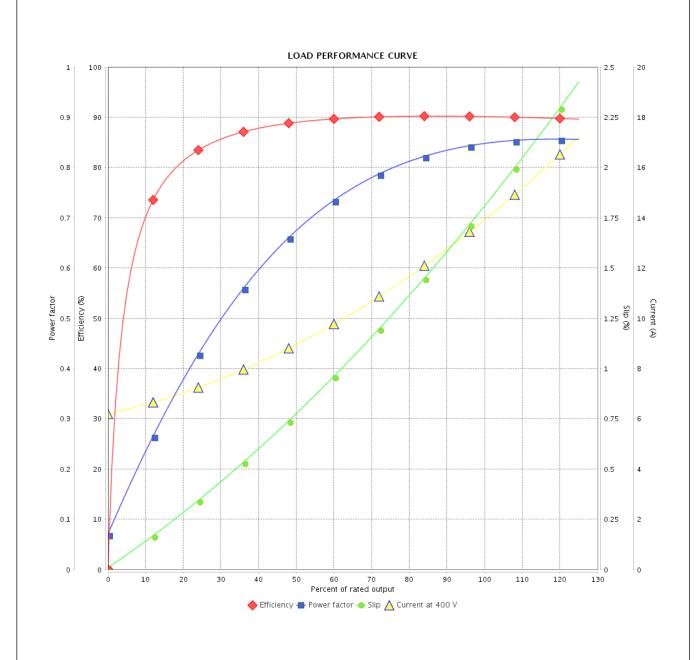
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Phase

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Performance : 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.1 A : 9.4 : 17.8 ft.lb : 320 % : 380 % : 2945 rpm	Moment of inertia (J) : 0.6362 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : A		o o	
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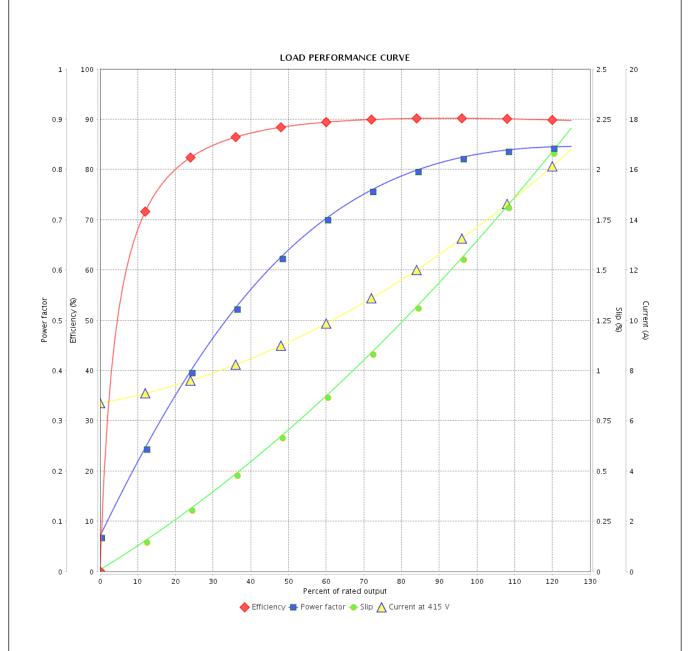
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Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 10.0 : 17.8 ft.lb : 340 % : 420 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
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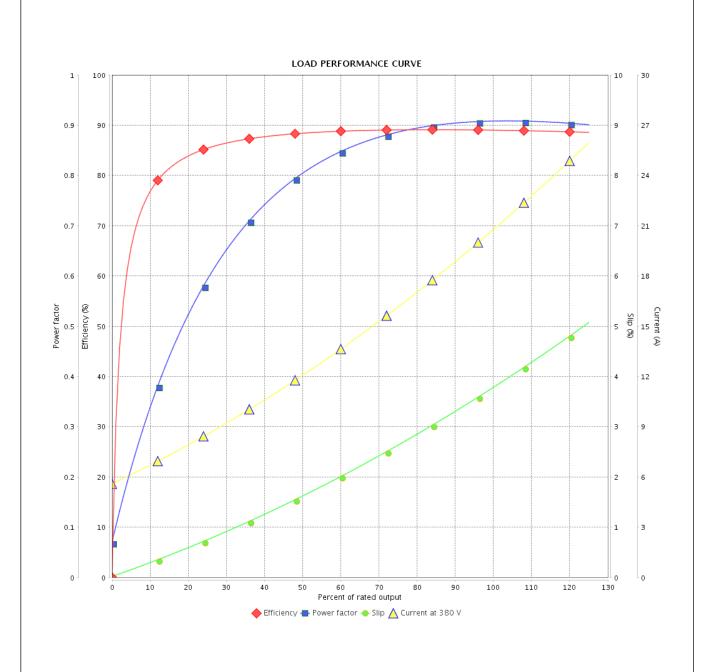
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472774

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Performance	rformance : 380 V 50 Hz 2P IE1					
Rated current	: 2	20.6 A	Moment o	f inertia (J)	: 0.6362 sq.ft.	.lb
LRC	: 6	6.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	27.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque		220 %	Temperati	Temperature rise		
Rated speed		2885 rpm	5 rpm Design		: A	
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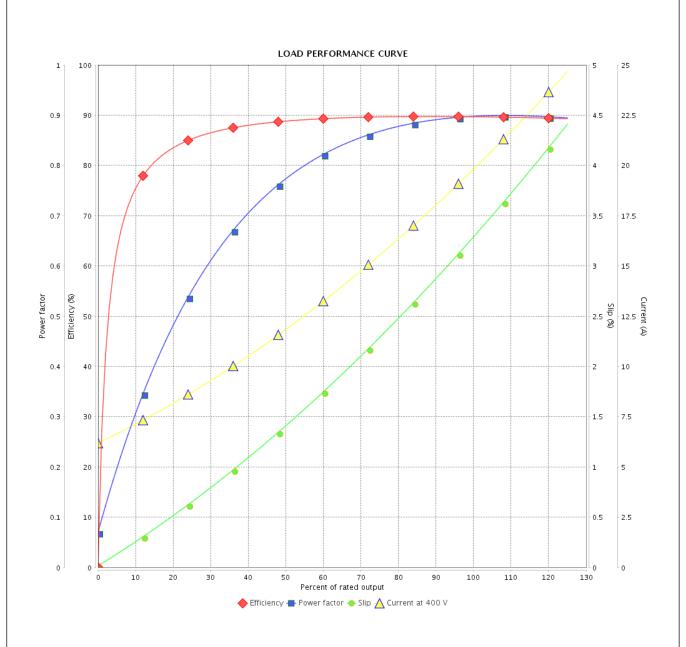
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Product code: 13472774

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Performance : 400 V 50 Hz 2P IE2 : 19.7 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 27.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2900 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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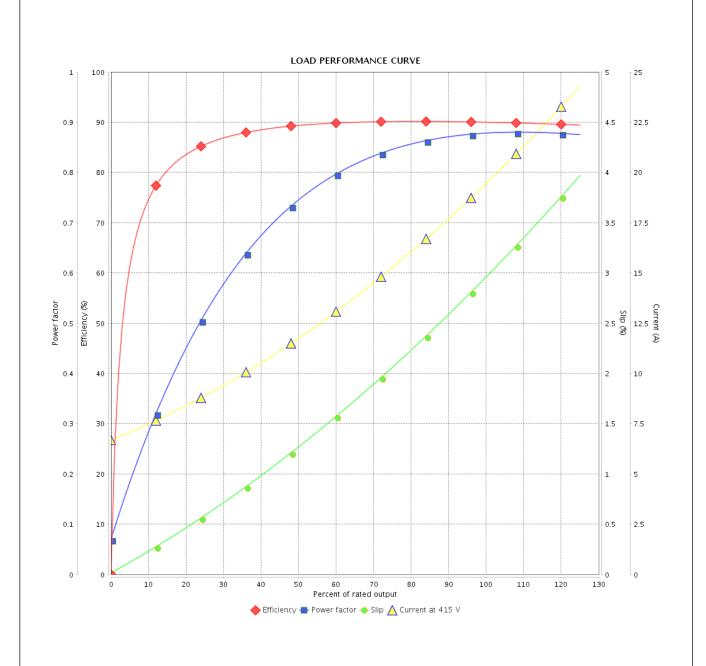


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Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance : 415 V 50 Hz 2P IE2						
Rated current	: 1	9.3 A	Moment o	f inertia (J)	: 0.6362 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque		80 %	Temperature rise		: 105 K	
Rated speed	: 2	2910 rpm Design			: A	
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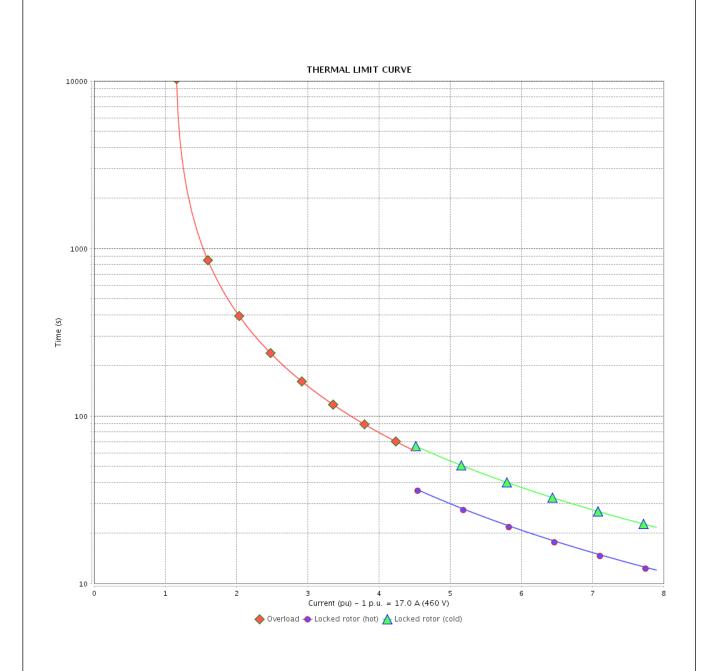


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	13472774 01536ET3E2	215JP-W22
Performance	: 230/460 V 60 Hz 2P	Moment	finantia (I)	. 0 6363 og fl	lh.
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0/17.0 A : 7.9 : 22.4 ft.lb : 240 % : 280 % : 3520 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : A	ID
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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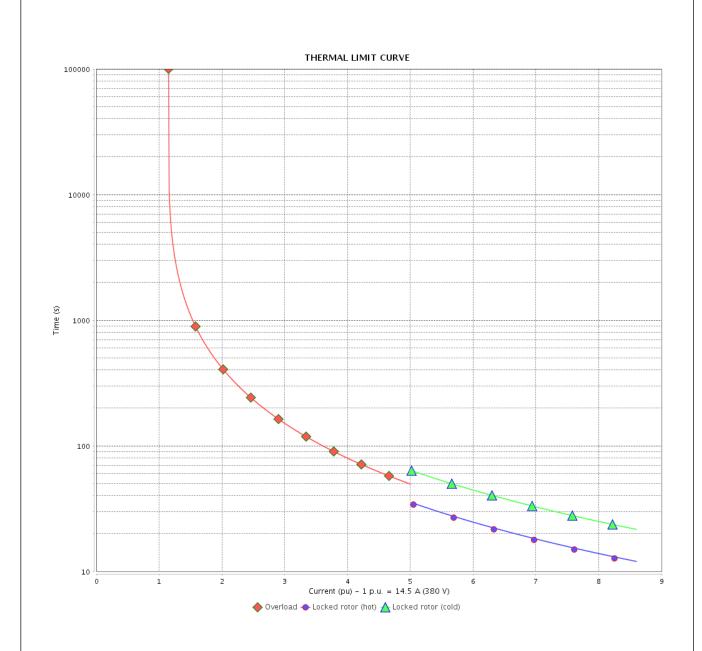


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	13472774	
		(Catalog # :	01536ET3E2	215JP-W22
Performance	: 380 V 50 Hz 2P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 14.5 A : 8.6 : 17.9 ft.lb : 280 % : 340 % : 2940 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : A	b
	•				
Heating constant					
Cooling constant	Changes Summary		Dorformad	Chaokad	Doto
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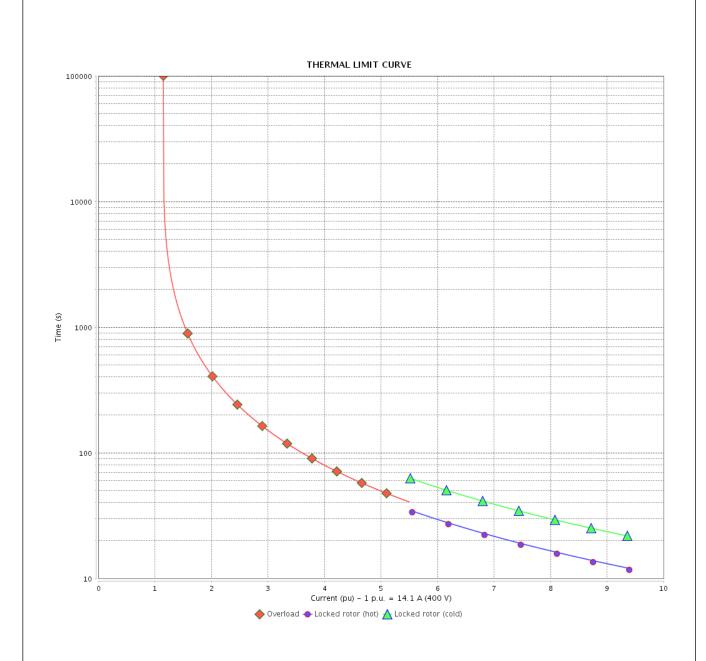


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472774 01536ET3E2	15.IP-W22
					0100021022	
Performance		: 400 V 50 Hz 2P IE3				
Rated current		: 14.1 A	Moment o	of inertia (J)	: 0.6362 sq.ft.l	b
LRC Rated torque		: 9.4 : 17.8 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 320 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 380 % : 2945 rpm	Temperat Design	ure rise	: 80 K : A	
Heating constan	t					
Cooling constant	t					
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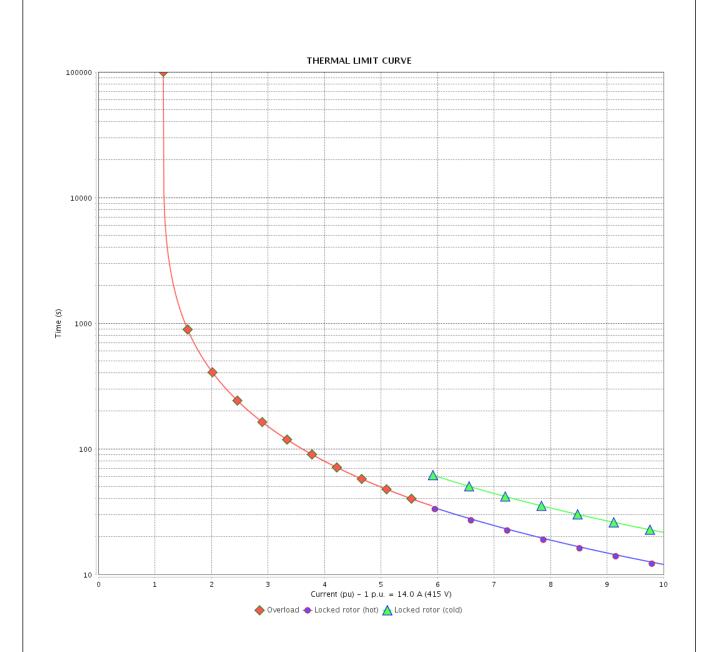


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Product line		: NEMA Premium Efficiency ⁷ Phase		Product code :	13472774 01536ET3E2	215JP-W22
				Catalog #:	U1536E13E2	115JP-W2Z
Performance Rated current LRC Rated torque Locked rotor torc	:	415 V 50 Hz 2P IE3 14.0 A 10.0 17.8 ft.lb 340 %	Moment o Duty cycle Insulation Service fa	class	: 0.6362 sq.ft. : Cont.(S1) : F : 1.15	b
Breakdown torque	ie :	420 % 2950 rpm	Temperatu Design		: 1.15 : 80 K : A	
Heating constant						
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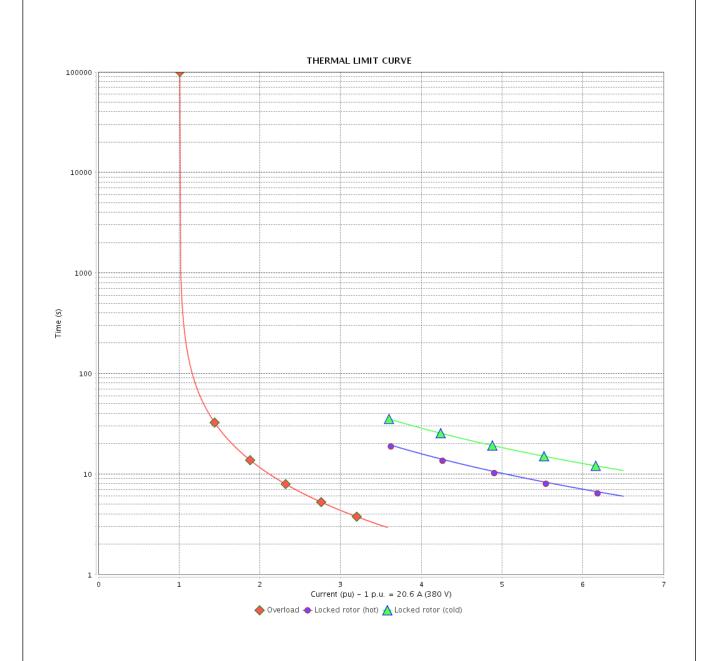


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472774 01536ET3E2	15JP-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC		: 20.6 A : 6.5	Moment of Duty cycle	of inertia (J) e	: 0.6362 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 27.3 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 220 %	Temperat		: 105 K	
Rated speed		: 2885 rpm	Design		: A	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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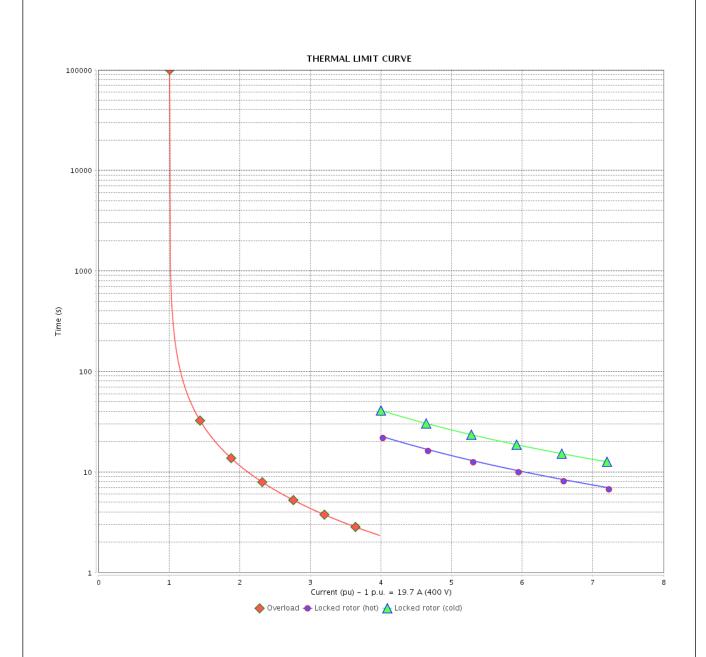


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472774 01536ET3E2	15JP-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 19.7 A : 7.2	Moment of Duty cycle	of inertia (J)	: 0.6362 sq.ft.l : Cont.(S1)	b
Rated torque		: 27.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 250 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2900 rpm	Design	are rise	: A	
Heating constan						
Cooling constant	t	01 0			<u> </u>	
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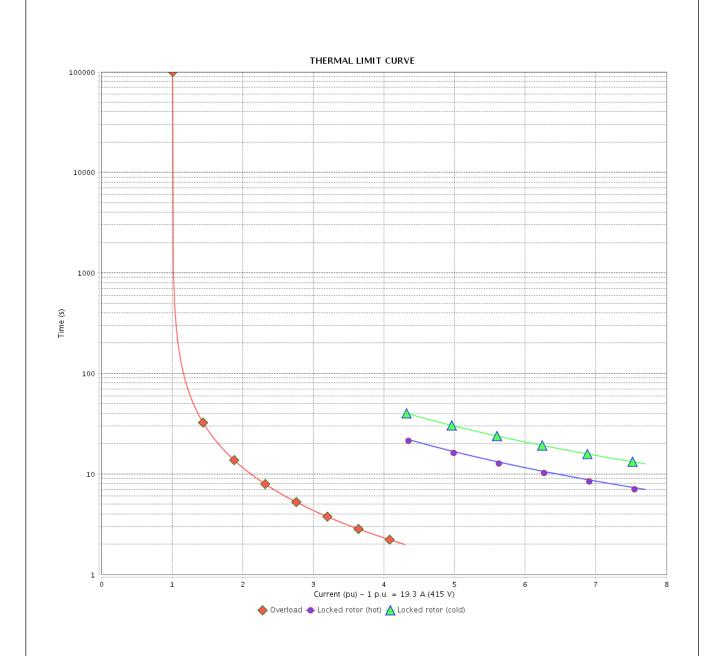


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472774 01536ET3E2	15 ID W/22
				- Catalog # .	0100021022	1001 1122
Performance		: 415 V 50 Hz 2P IE2				
Rated current		: 19.3 A	Moment of	of inertia (J)	: 0.6362 sq.ft.l	b
LRC Rated torque		: 7.7 : 27.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 240 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 280 % : 2910 rpm	Temperat Design	ure rise	: 105 K : A	
Heating constan		·				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

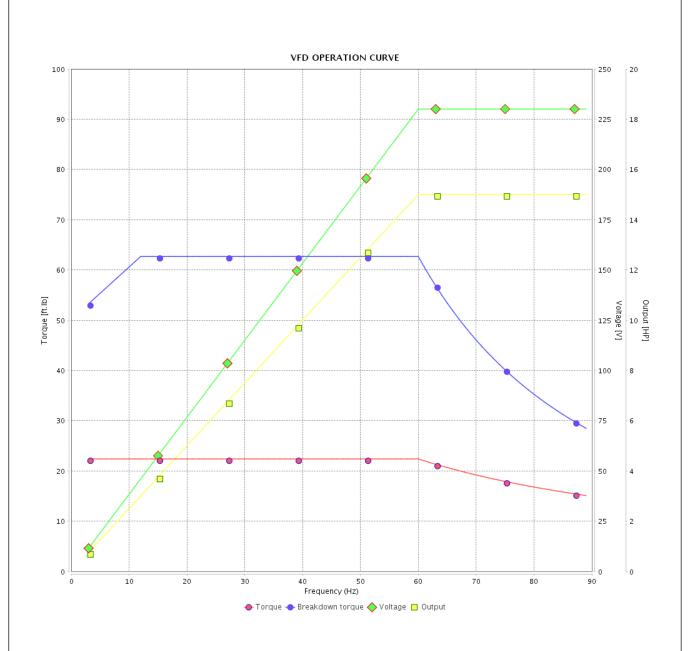
Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance : 230/460 V 60 Hz 2P : 34.0/17.0 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3520 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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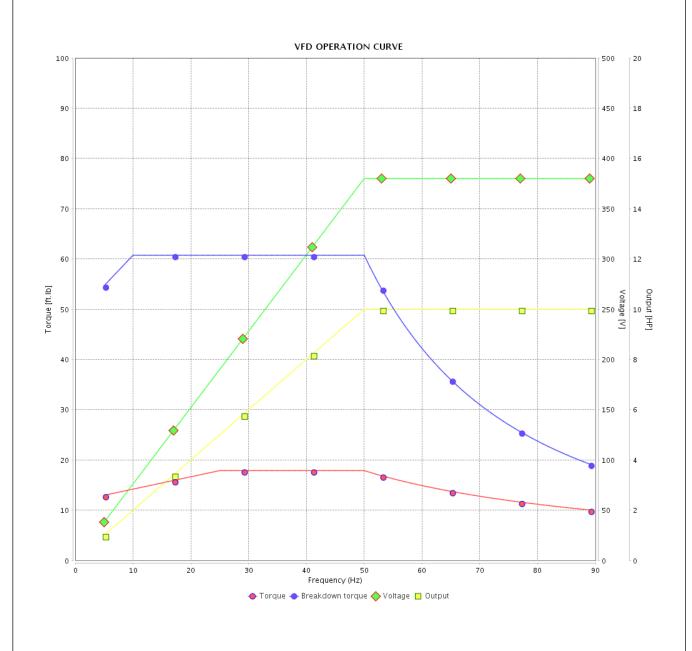
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.5 A : 8.6 : 17.9 ft.lb : 280 % : 340 % : 2940 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 0.6362 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : A	lb
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

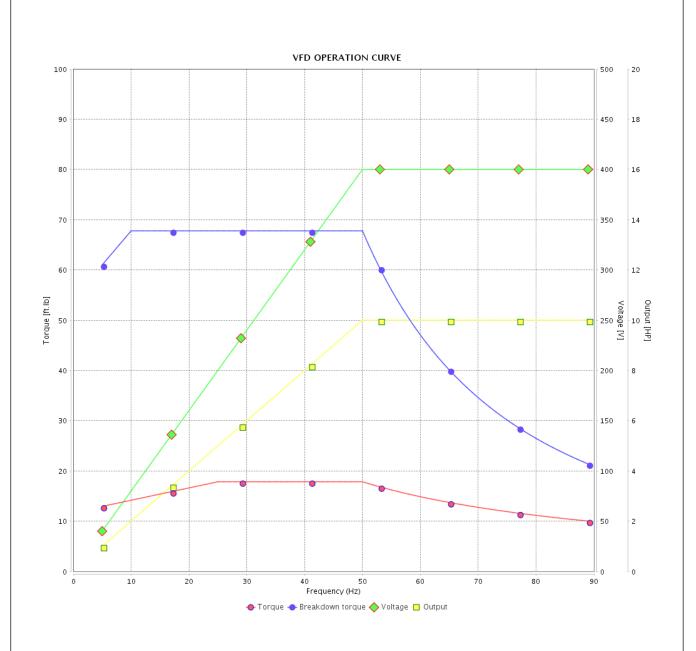
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Performance	:	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que : ue :	14.1 A 9.4 17.8 ft.lb 320 % 380 % 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.6362 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : A	b
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

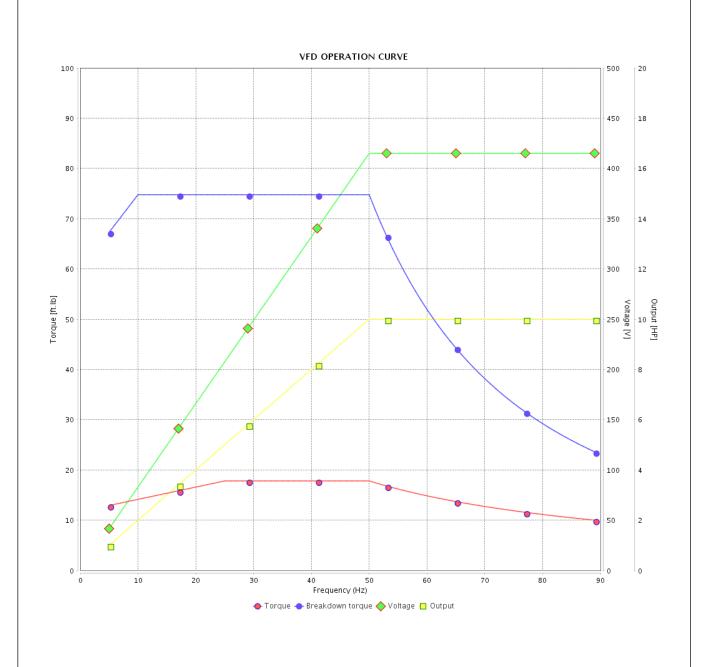


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472774

Phase

Catalog #: 01536ET3E215JP-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 14.0 A		Moment o	Moment of inertia (J)		lb	
LRC	: 10	0.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 17	7.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 34	40 %	Service fa	ctor	: 1.15	
Breakdown torque			ıre rise	: 80 K		
Rated speed	: 29	950 rpm	Design		: A	
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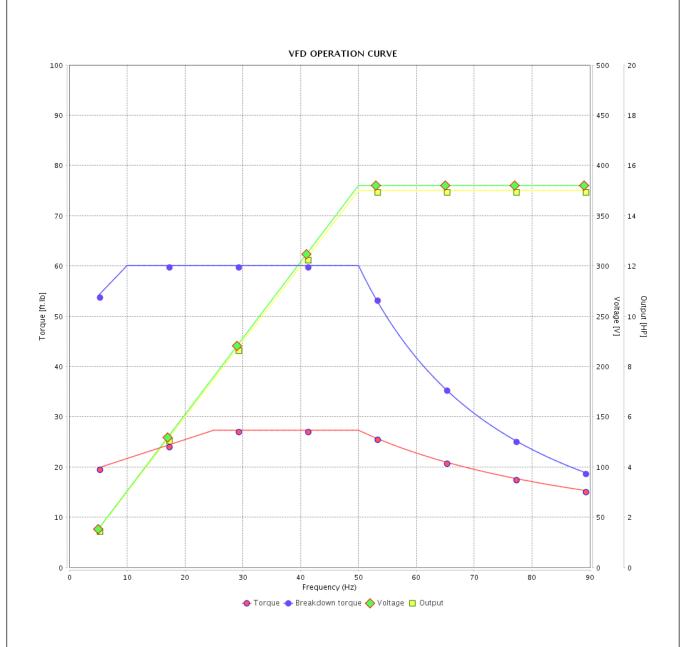
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13472774

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.6 A : 6.5 : 27.3 ft.lb : 190 % : 220 % : 2885 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : A	lb
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Three Phase Induction Motor - Squirrel Cage



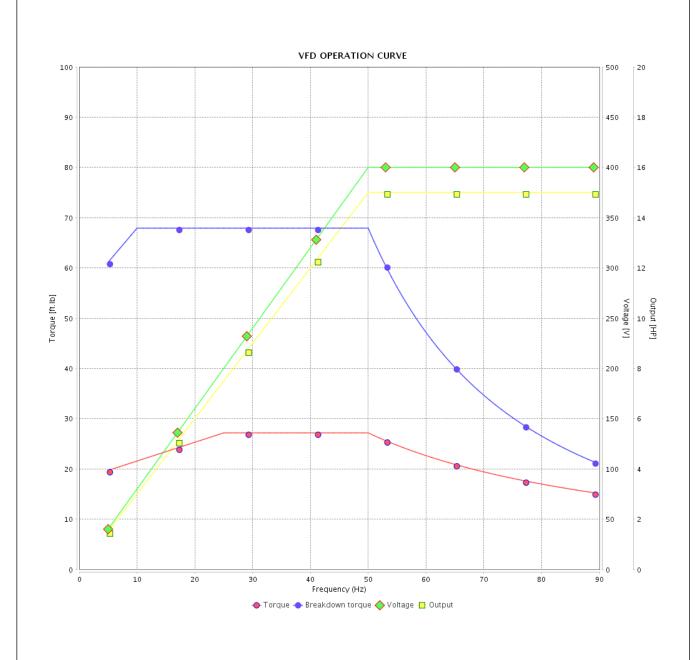
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Product line : NEMA Premium Efficiency Three- Product code : 13472774

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.7 A : 7.2 : 27.2 ft.lb : 220 % : 250 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
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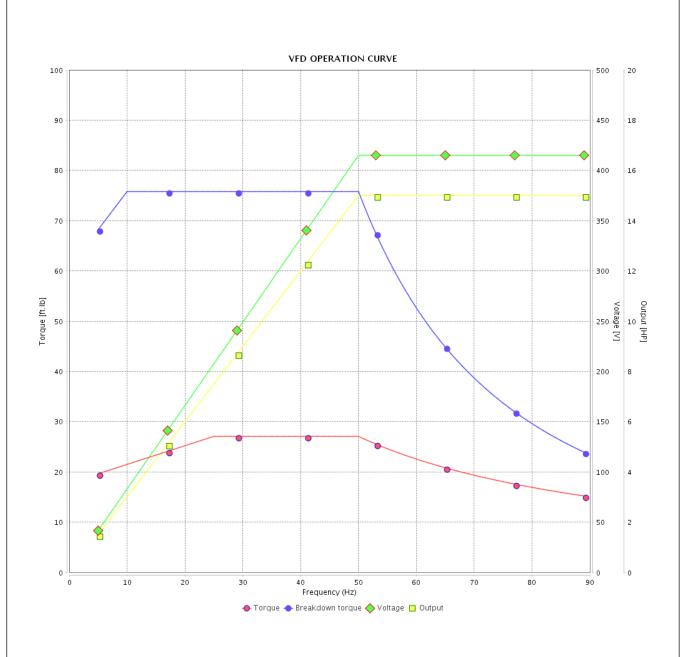
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13472774

Catalog #: 01536ET3E215JP-W22



Performance : 415 V 50 Hz 2P IE2 : 19.3 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 27.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2910 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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