DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11535672

Catalog #: 00518ET3E184JP-W22

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹

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

· 1000 m a s l Approx weight³

Altitude		: 1000 m.a.	s.l.	Approx	weight³	: 1	104 lb	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: (0.4003 sq.ft.lb	
Design		: B			,		·	
Output [HP]		5	4	4	4	5	5	5
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		12.9/6.45	6.42	6.13	6.14	7.74	7.44	7.35
L. R. Amperes [A]		96.7/48.4	44.9	47.2	50.4	44.9	47.6	50.7
LRC [A]		7.5x(Code J)	7.0x(Code J)	7.7x(Code K)	8.2x(Code L)	5.8x(Code G)	6.4x(Code H)	6.9x(Code J)
No load current [A	1	6.40/3.20	3.15	3.45	3.70	3.15	3.45	3.70
Rated speed [RPN	•	1755	1455	1455	1460	1440	1445	1450
Slip [%]		2.50	3.00	3.00	2.67	4.00	3.67	3.33
Rated torque [ft.lb]			14.4	14.4	14.4	18.2	18.2	18.1
Locked rotor torqu	e [%]	229	229	260	290	180	210	229
Breakdown torque	[%]	320	300	350	380	240	280	300
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		27s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		15s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	88.2	87.7	86.4	86.2	89.2	88.0	88.1
Efficiency (%)	50%	88.5	87.5	86.7	86.5	88.5	87.5	87.5
Lineichey (70)	75%	89.5	88.2	88.2	88.2	87.5	88.5	88.5
	100%	89.5	87.7	88.2	88.2	86.5	87.5	87.5
	25%	0.37	0.37	0.33	0.30	0.43	0.39	0.36
Power Factor	Dower Factor 50%		0.61	0.57	0.53	0.69	0.65	0.61
I OWEI Facioi	75%	0.74	0.75	0.71	0.67	0.80	0.77	0.74
	100%	0.80	0.81	0.79	0.76	0.84	0.82	0.80

Drive end Non drive end Foundation loads 6307 ZZ 6206 ZZ

Bearing type Max. traction : 295 lb V'Ring V'Ring : 399 lb Sealing Max. compression Lubrication interval

Lubricant amount Mobil Polyrex EM

Lubricant type Notes

USABLE @208V 14.3A SF 1.15 SFA 16.4A

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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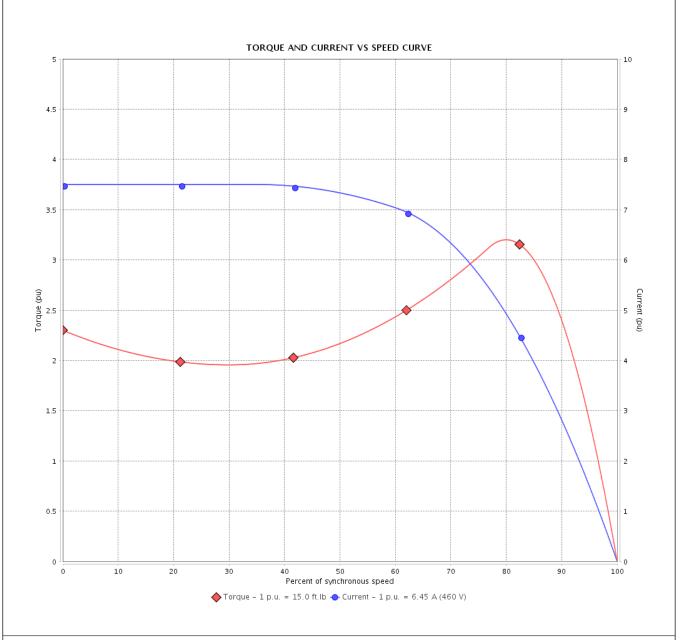
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535672

Catalog #: 00518ET3E184JP-W22



Performance : 230/460 V 60 Hz 4P Rated current : 12.9/6.45 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 15.0 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B

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

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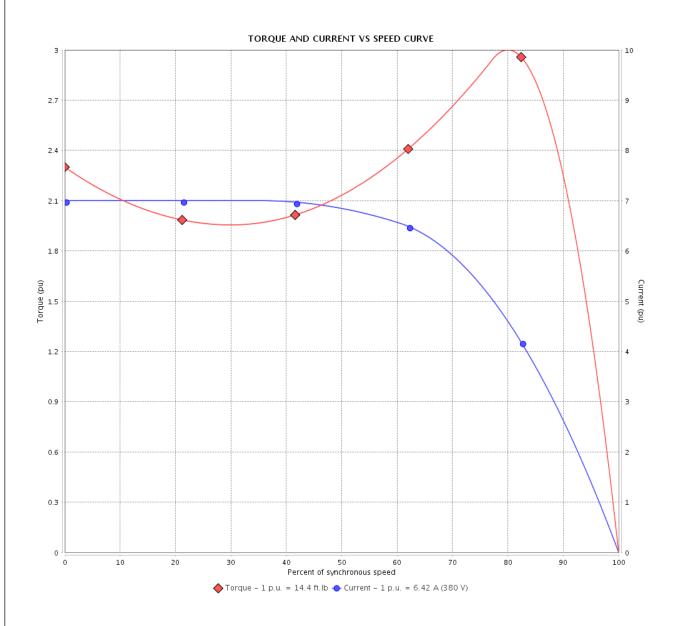


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00518ET3E184JP-W22

11535672



Performance : 380 V 50 Hz 4P IE3 Rated current : 6.42 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.4 ft.lb : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

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

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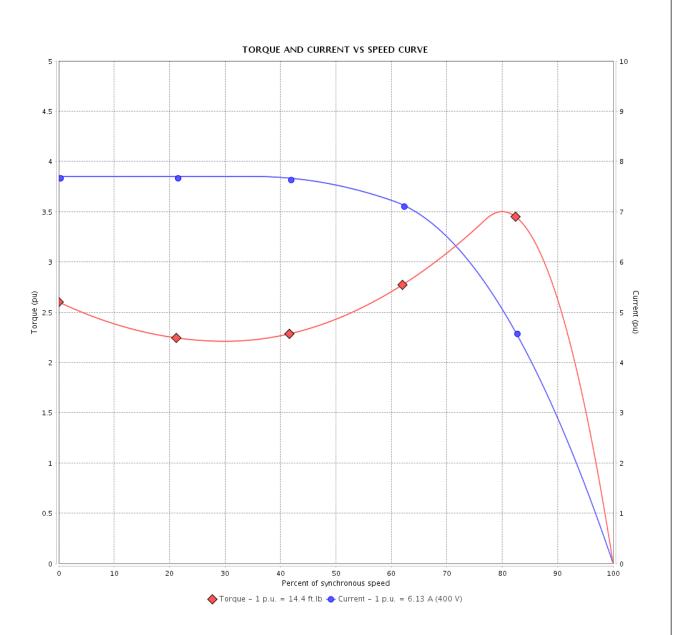


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11535672

Phase

Catalog #: 00518ET3E184JP-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 6.13 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 14.4 ft.lb Insulation class Rated torque Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

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: 11535672 Catalog #: 00518ET3E184JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 14.4 ft.lb ◆ Current - 1 p.u. = 6.14 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 6.14 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.4 ft.lb : 290 % Locked rotor torque Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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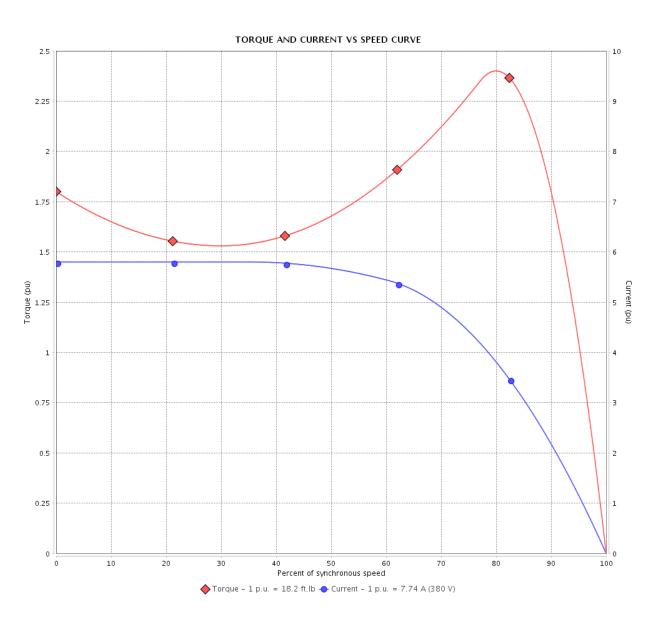


Customer

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Product code: 11535672

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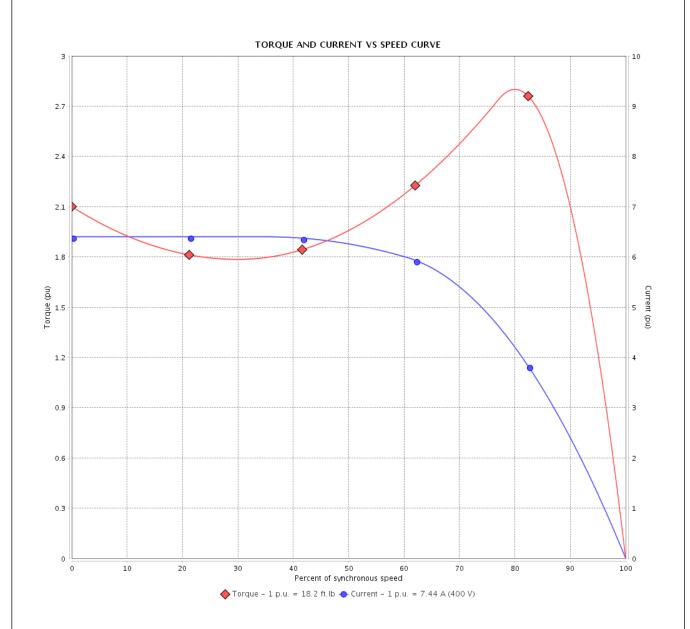
Performance : 380 V 50 Hz 4P IE2 Rated current : 7.74 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.2 ft.lb Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11535672 Catalog #: 00518ET3E184JP-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 7.44 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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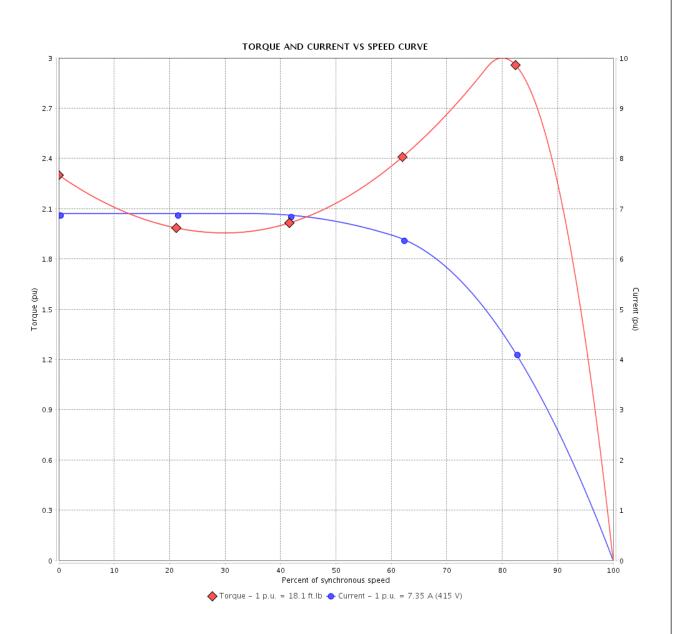
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535672

Catalog #: 00518ET3E184JP-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.35 A : 6.9 : 18.1 ft.lb : 229 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 21s (cold) 12s (hot)			

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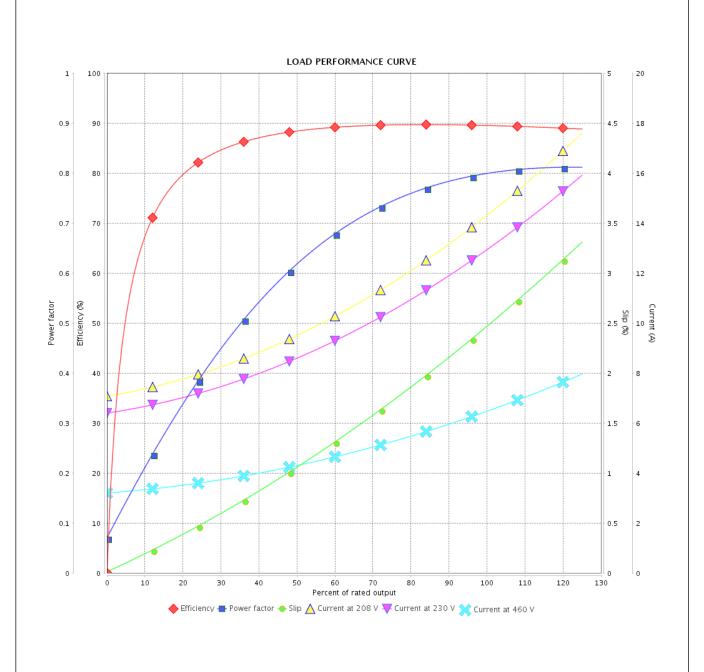


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535672

Phase

Catalog #: 00518ET3E184JP-W22



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	Rated current : 12.9/6.45 A		Moment o	Moment of inertia (J)		lb
LRC	: 7	.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	5.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	29 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	755 rpm	Design		: B	
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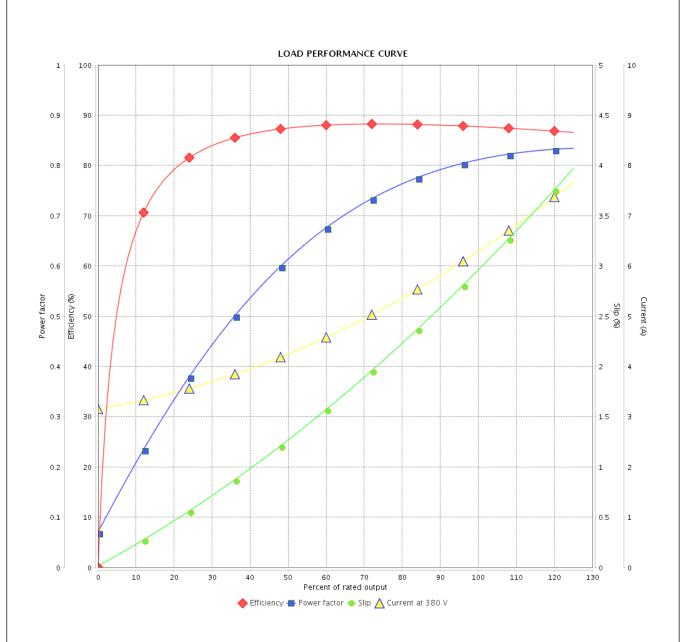
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535672

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 6.42 A	Moment of ine	ertia (J)	: 0.4003 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 14.4 ft.lb	Insulation class	SS	: F	
Locked rotor torque	: 229 %	Service factor	•	: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1455 rpm	Design		: B	
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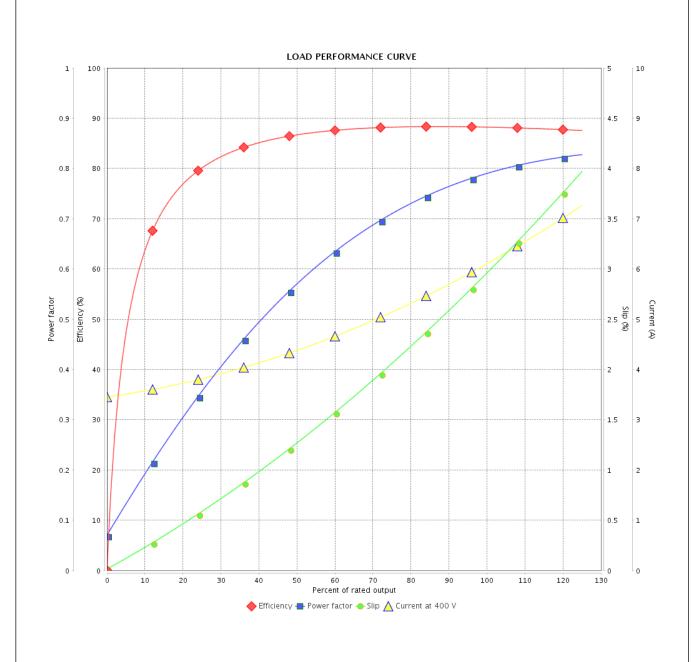
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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.13 A : 7.7 : 14.4 ft.lb : 260 % : 350 % : 1455 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	iss r	: 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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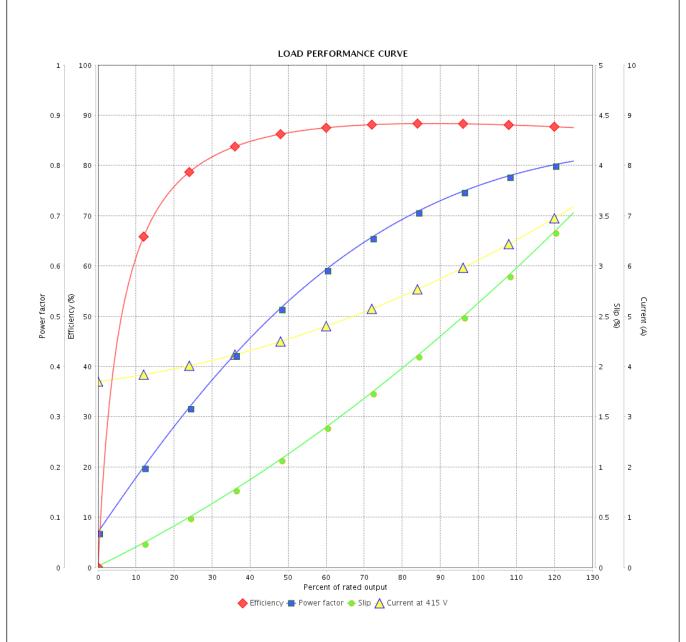
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Performance : 415 V 50 Hz 4P IE3					
Rated current : 6.14 A		Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC	: 8.2	Duty cycle		: Cont.(S1)	
Rated torque : 14.4 ft.lb		Insulation clas	S	: F	
Locked rotor torque	: 290 %	Service factor		: 1.15	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 1460 rpm	Design	Design		
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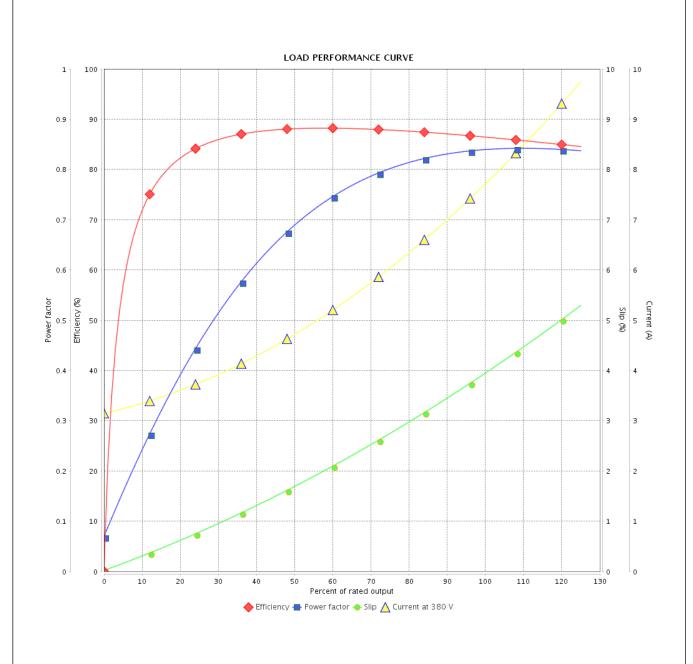
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 38	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 10 e : 10 : 20	74 A 8 3.2 ft.lb 30 % 40 % 440 rpm	Service factor Temperature rise		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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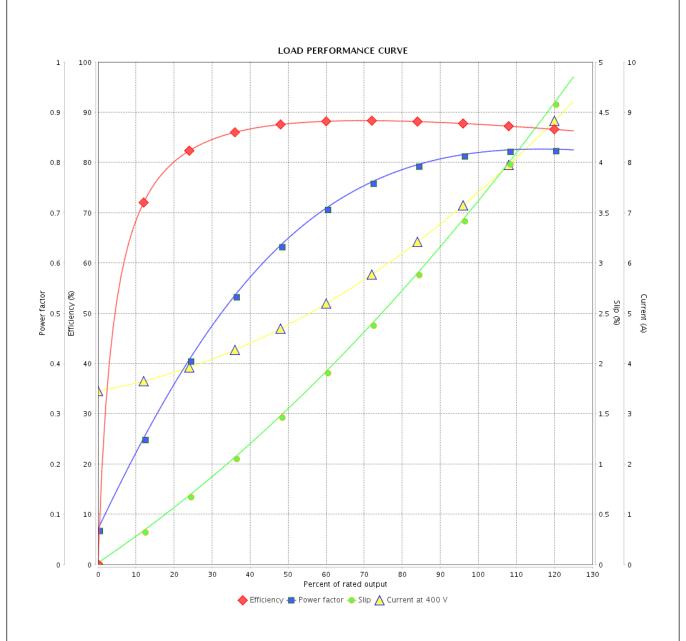
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11535672

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Performance	mance : 400 V 50 Hz 4P IE2			
Rated current : 7.44 A		Moment of inertia (J)	: 0.4003 sq.f	t.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 18.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1445 rpm	Design	: B	
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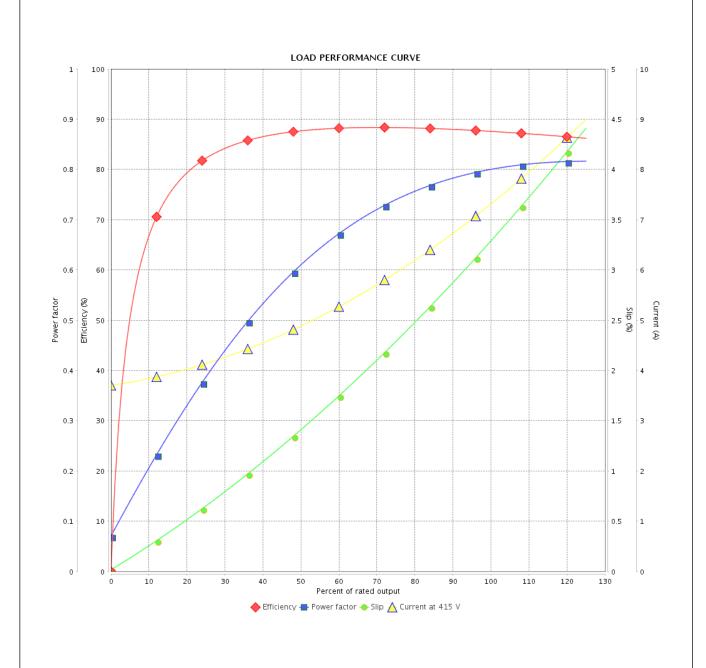


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Product line : NEMA Premium Efficiency Three- Product code : 11535672

Phase

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Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current	Rated current : 7.35 A		Moment of	Moment of inertia (J)		.lb
LRC	: 6	.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 18	8.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2:	29 %	Service factor		: 1.15	
Breakdown torque	eakdown torque : 300 % Temperature rise		ıre rise	: 80 K		
Rated speed : 14		450 rpm	Design		: B	
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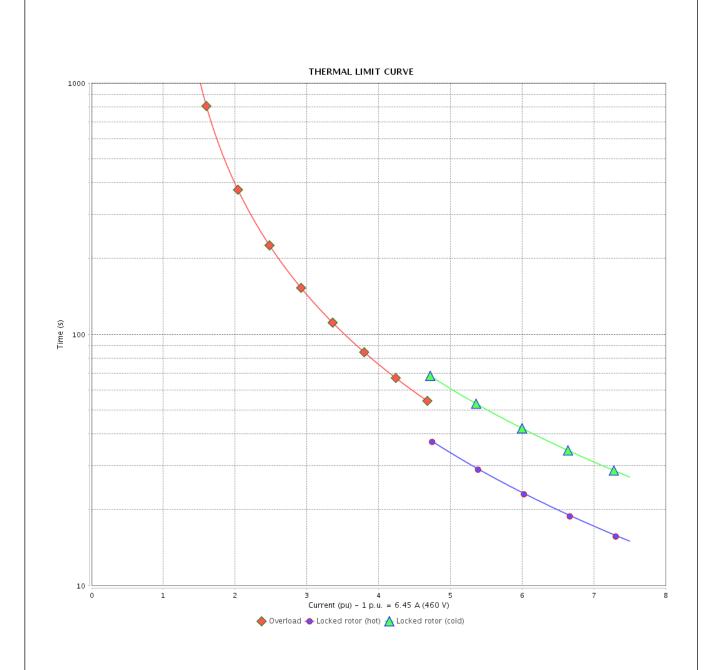


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11535672 00518ET3E1	84JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 12 : 7. : 10 : 22 : 32	30/460 V 60 Hz 4P 2.9/6.45 A .5 5.0 ft.lb 29 % 20 % 755 rpm	Moment or Duty cycle Insulation Service fa Temperatures	class ctor	: 0.4003 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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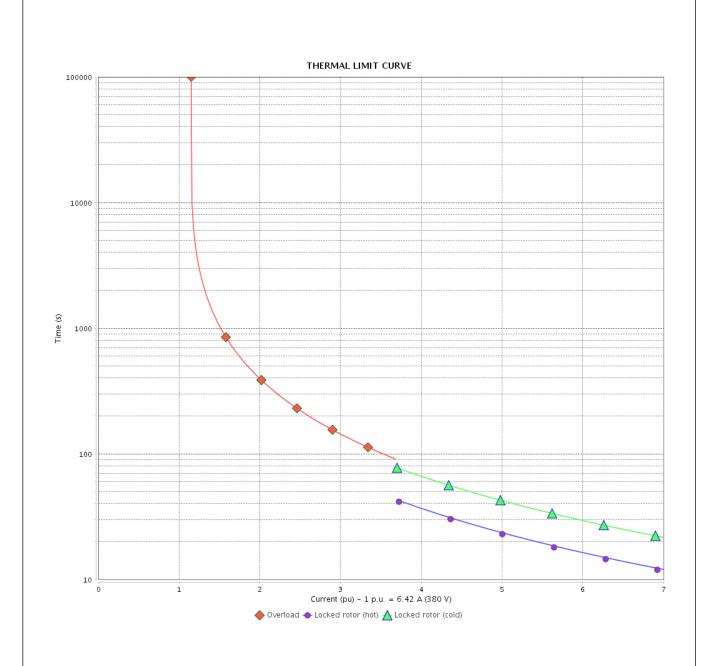


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11535672 00518ET3E1	84JP-W22
		_			
Performance	: 380 V 50 Hz 4P IE3		Character A D	0.4000 (1.1	ı.
Rated current LRC	: 6.42 A : 7.0	Duty cycle	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	ט
Rated torque Locked rotor torque	: 14.4 ft.lb : 229 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 229 % : 300 %	Temperati		: 1.15 : 80 K	
Rated speed	: 1455 rpm	Design	·	: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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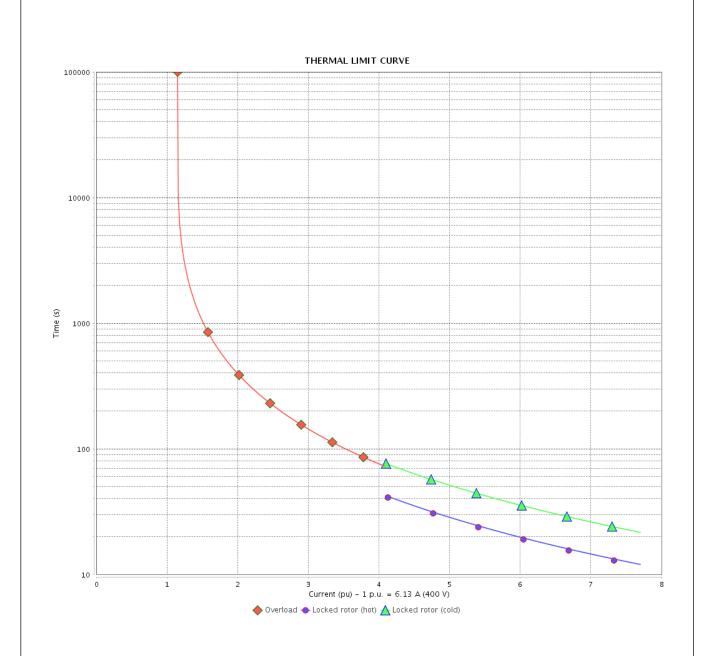


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11535672 00518ET3E1	84JP-W22
Performance Rated current	: 400 V 50 Hz 4P IE3 : 6.13 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	h
LRC	: 7.7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque	: 14.4 ft.lb : 260 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 350 %	Temperatu		: 80 K	
Rated speed	: 1455 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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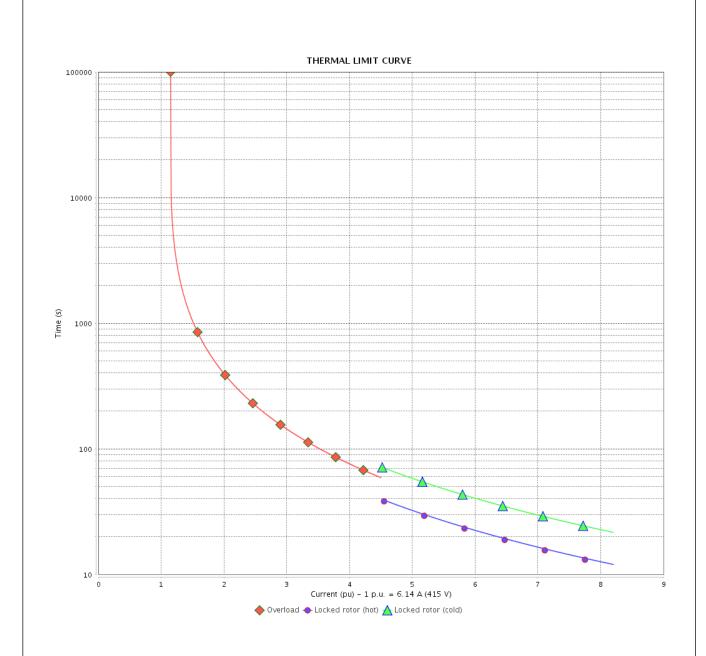


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Product line		NEMA Premium Efficiency Thase	Three-	Product code :	11535672	
			(Catalog # :	00518ET3E1	84JP-W22
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current	: 6.	14 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	D
LRC Rated torque	: 8. : 1 ²	2 1.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord	jue : 29	90 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		30 % 460 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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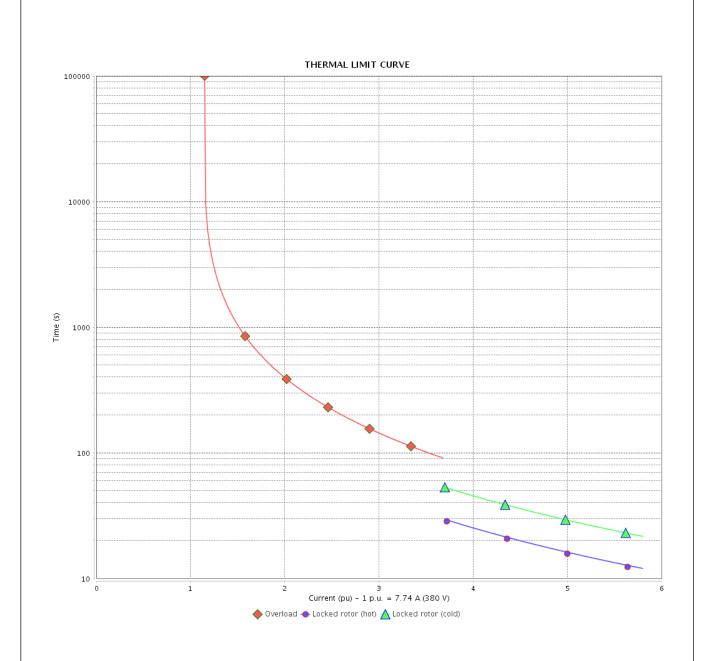


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11535672	
		11100		Catalog # :	00518ET3E1	84JP-W22
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 7.74 A : 5.8	Moment of Duty cycle	of inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque		: 18.2 ft.lb	Insulation		: F	
Locked rotor tord		: 180 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 240 % : 1440 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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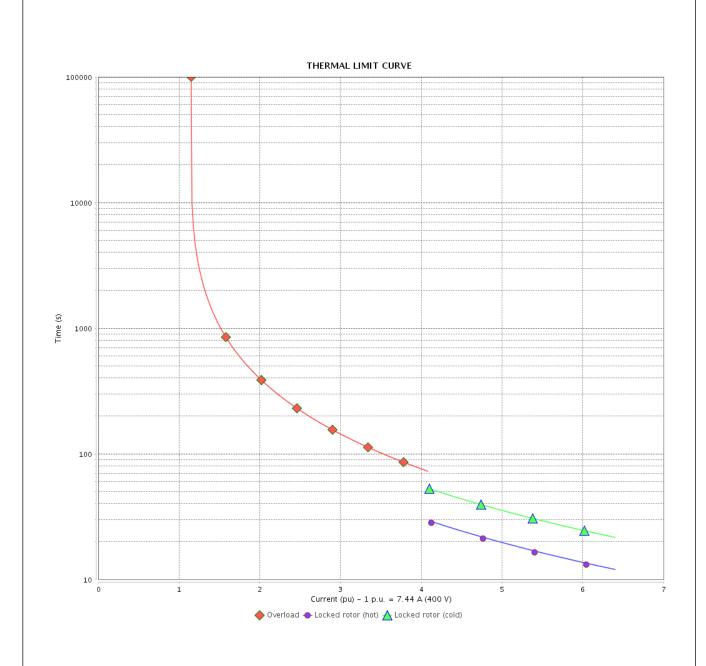


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11535672 00518ET3E1	84JP-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 7.44 A : 6.4	Moment of Duty cycle	of inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque		: 18.2 ft.lb	Insulation	class	: F	
Locked rotor tord		: 210 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 280 % : 1445 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constan	t					
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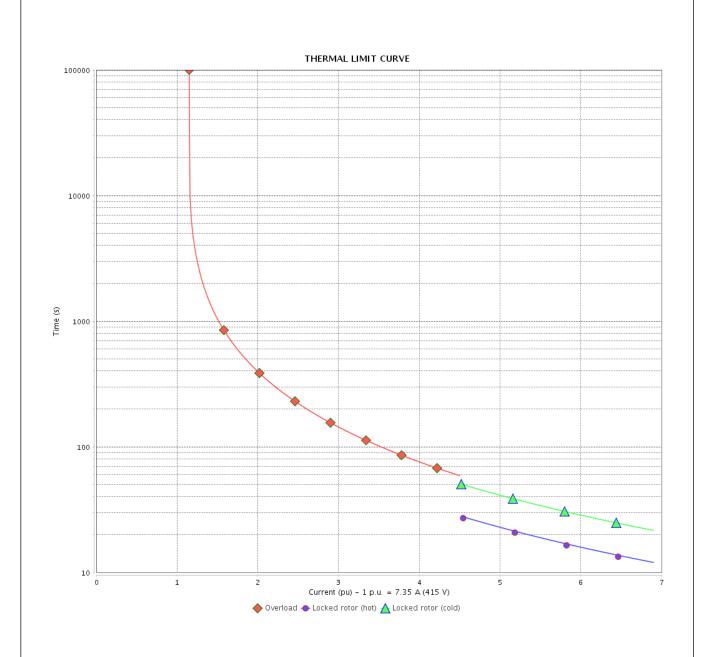


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11535672 00518ET3E18	34JP-W22
Performance		415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	7.35 A 6.9 18.1 ft.lb 229 % 300 % 1450 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.4003 sq.ft.lk : Cont.(S1) : F : 1.15 : 80 K : B)
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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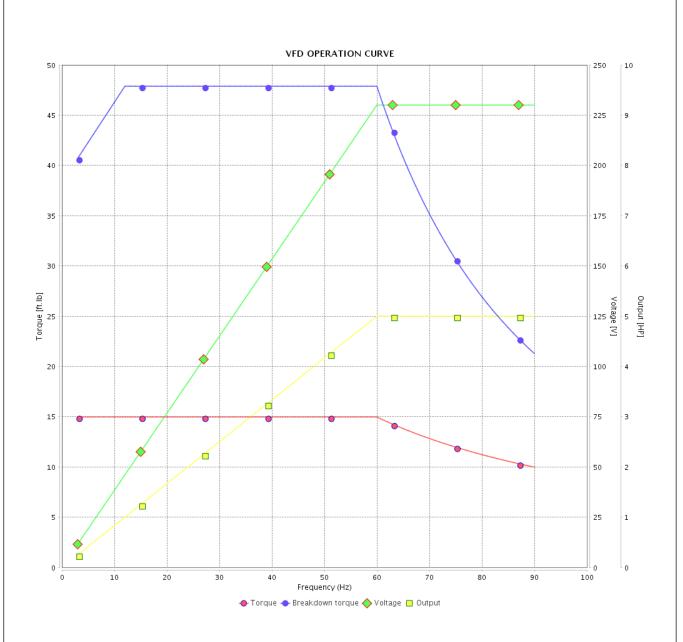
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11535672

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Performance	: 230/460 V 60 Hz 4P				
Rated current	: 12.9/6.45 A	Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 15.0 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 229 %	Service fact	tor	: 1.25	
Breakdown torque	: 320 %	Temperature rise		: 80 K	
Rated speed	: 1755 rpm	Design		: B	
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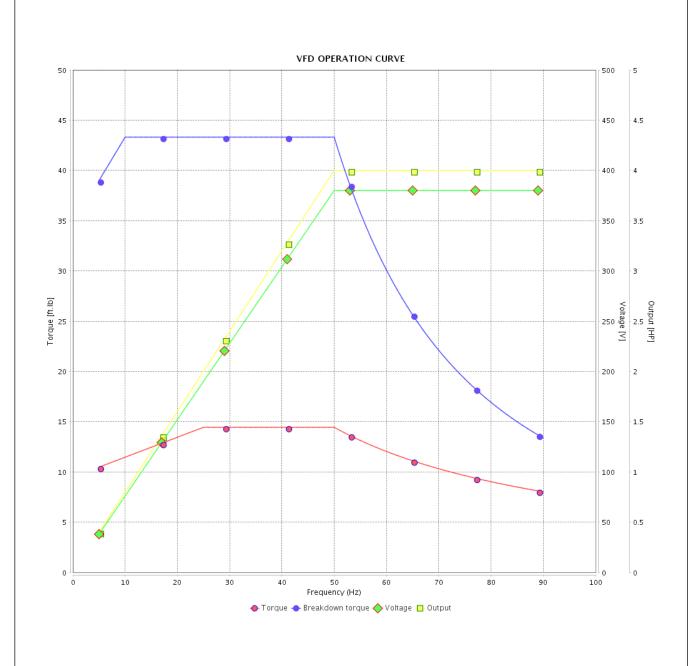


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Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 6.	42 A	2 A Moment of inertia (J)		: 0.4003 sq.ft.	.lb
LRC	: 7.	0	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 14	4.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 22	29 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 30	00 %	Temperat	ure rise	: 80 K	
Rated speed	: 14	455 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Produ

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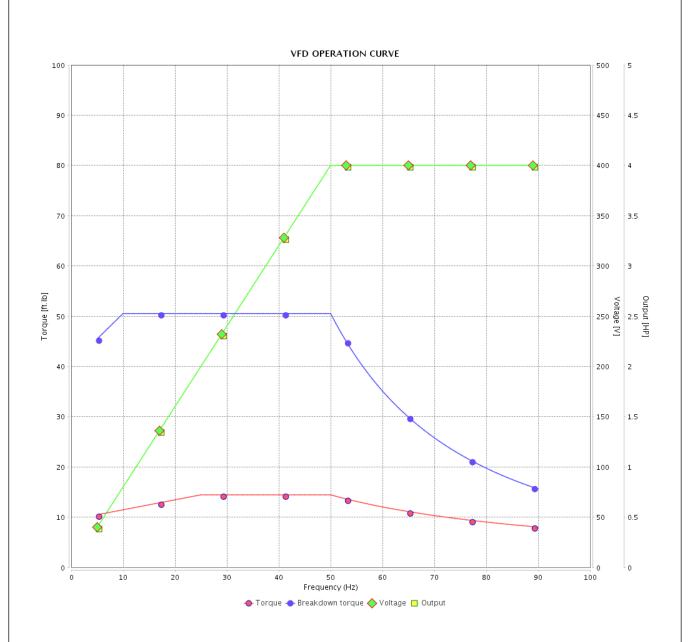
Product code: 11535672

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Performance : 400 V 50 Hz 4P IE3 Rated current : 6.13 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.7 : 14.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



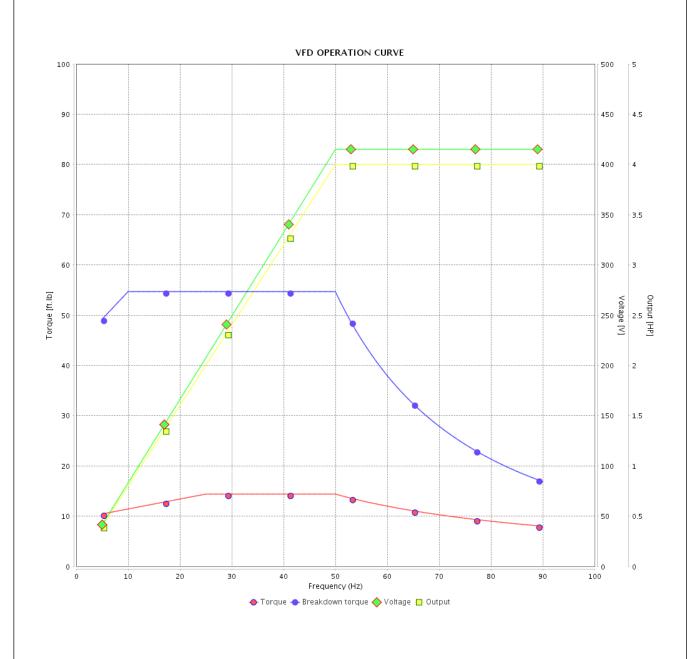
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Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	ated current : 6.14 A		Moment o	Moment of inertia (J)		.lb
LRC	: 8	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	4.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	90 %	Service fa	ctor	: 1.15	
Breakdown torqu	e : 3	80 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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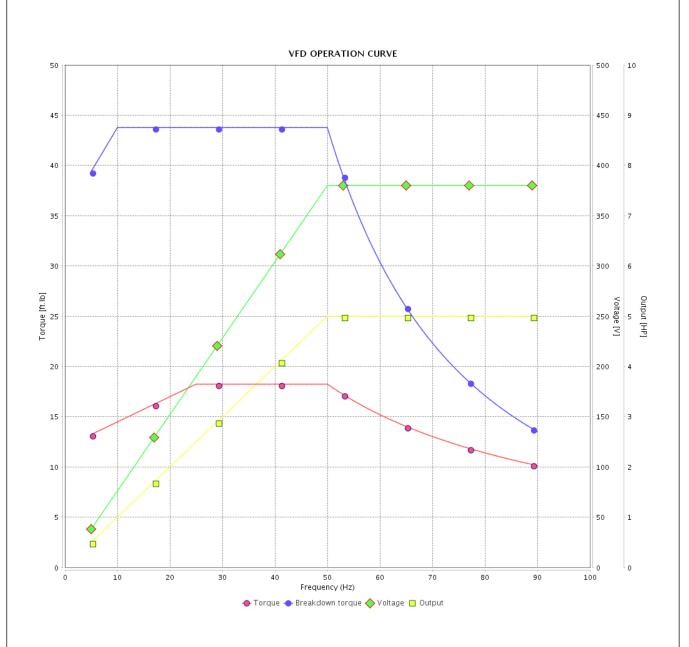
Product line : NEMA Premium Efficiency Three-

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Performance	: 380 V 50 Hz 4P IE2				
Rated current : 7.74 A LRC : 5.8 Rated torque : 18.2 ft.lb Locked rotor torque : 180 % Breakdown torque : 240 % Rated speed : 1440 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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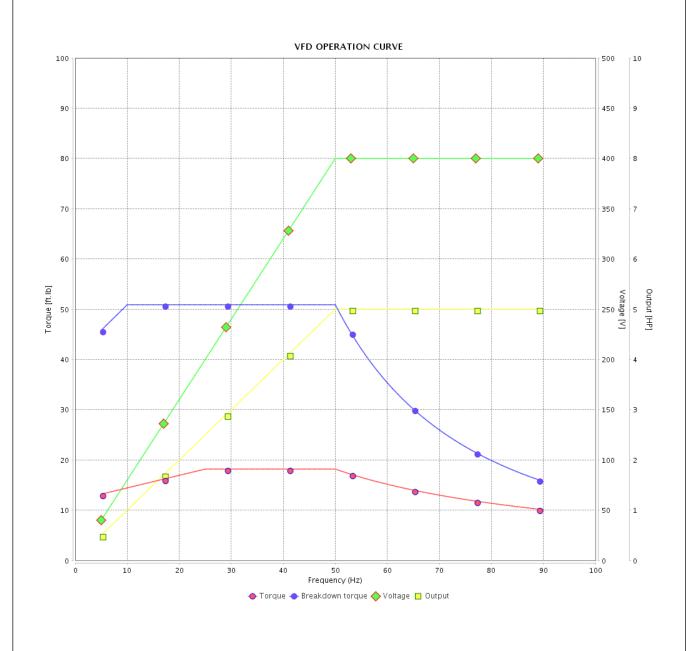
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Product line : NEMA Premium Efficiency Three- Product code : 11535672

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque	: 7.44 A : 6.4 : 18.2 ft.lb	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor torque Breakdown torque Rated speed	: 210 % : 280 % : 1445 rpm				
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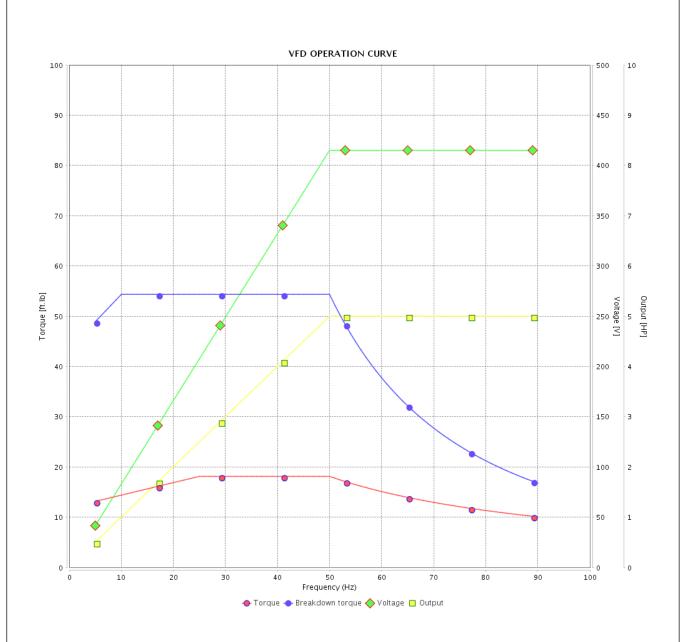
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11535672

Catalog #: 00518ET3E184JP-W22



Performance : 415 V 50 Hz 4P IE2 : 7.35 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class : 18.1 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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