DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598384

Phase

Catalog #: 00118ET3E143JP-W22

Frame : 143/5JP 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 51.0 lb

, unitado		. 1000 111.0.0.11	, ipprox. woigi		10
Protection degre	е	: IP55	Moment of inc	ertia (J) : 0.11	72 sq.ft.lb
Design		: B			
Output [HP]		1	1	1	1
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		2.94/1.47	1.71	1.65	1.63
L. R. Amperes [A]		25.3/12.6	10.9	11.5	12.1
LRC [A]		8.6x(Code M)	6.4x(Code J)	7.0x(Code K)	7.4x(Code K)
No load current [A]	1.88/0.940	0.930	1.00	1.08
Rated speed [RPM]		1760	1450	1455	1455
Slip [%]		2.22	3.33	3.00	3.00
Rated torque [ft.lb]	Rated torque [ft.lb]		3.62	3.61	3.61
Locked rotor torqu	e [%]	290	220	240	260
Breakdown torque	[%]	350	250	250 290	
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)			
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	78.4	79.6	78.4	78.4
Efficiency (%)	50%	80.0	80.0	80.0	80.0
Efficiency (70)	75%	84.0	82.5	82.5	82.5
	100%	85.5	82.5	84.0	84.0
	25%	0.31	0.36	0.33	0.31
Power Factor	50%	0.55	0.62	0.58	0.55
I OWELL ACTOL	75%	0.68	0.74	0.71	0.69
	100%	0.75	0.81	0.78	0.76

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6206 ZZ 6204 ZZ Max. traction : 72 lb Sealing : V'Ring V'Ring Max. compression : 123 lb

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.07A SF 1.15 SFA 3.54A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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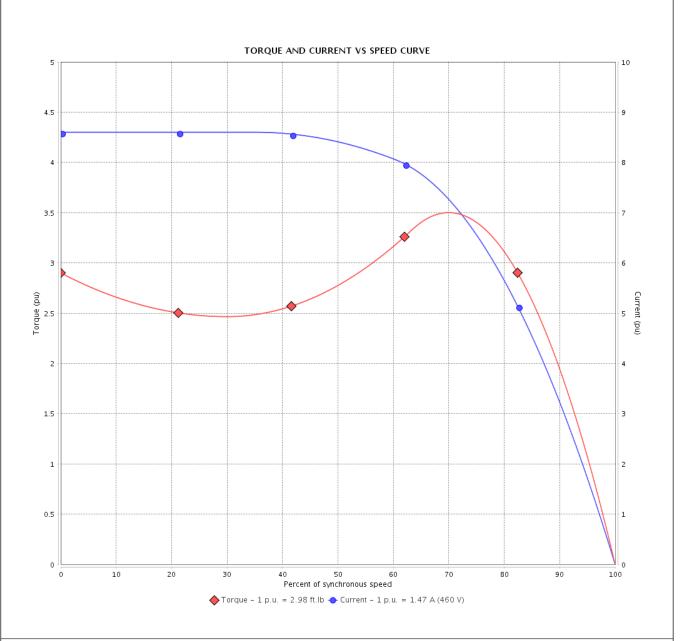


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598384

Phase

Catalog #: 00118ET3E143JP-W22



Performance : 230/460 V 60 Hz 4P Rated current : 2.94/1.47 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 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: 12598384 Catalog #: 00118ET3E143JP-W22 TORQUE AND CURRENT VS SPEED CURVE

2.4							\		
2.1									
				-					
1.8					•		\		
1.5					 				
								\setminus	
1.2							•		
0.9									
0.6									\
0.3								\	$\left -\right $
. ا	10	20	30	40	60	70	80	90	100

Performance : 380 V 50 Hz 4P IE3 Rated current : 1.71 A Moment of inertia (J) : 0.1172 sq.ft.lb LRC : 6.4 Duty cycle : Cont.(S1) Rated torque Insulation class : F : 3.62 ft.lb Locked rotor torque : 220 % Service factor : 1.25 : 250 % Breakdown torque Temperature rise : 80 K : B Rated speed : 1450 rpm Design Locked rotor time : 32s (cold) 18s (hot)

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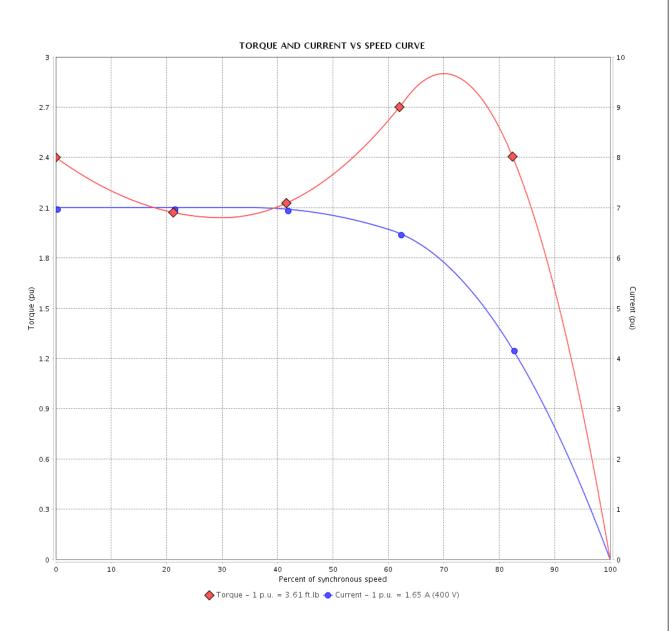
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598384

Catalog #: 00118ET3E143JP-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 1.65 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.61 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 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: 12598384 Catalog #: 00118ET3E143JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.61 ft.lb ◆ Current - 1 p.u. = 1.63 A (415 V) : 415 V 50 Hz 4P IE3 Performance Rated current : 1.63 A Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Rated torque : 3.61 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.25 : 310 % : 80 K Breakdown torque Temperature rise Rated speed : 1455 rpm : B Design

Locked rotor time	e : 32	2s (cold) 18s (hot)			
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Phase

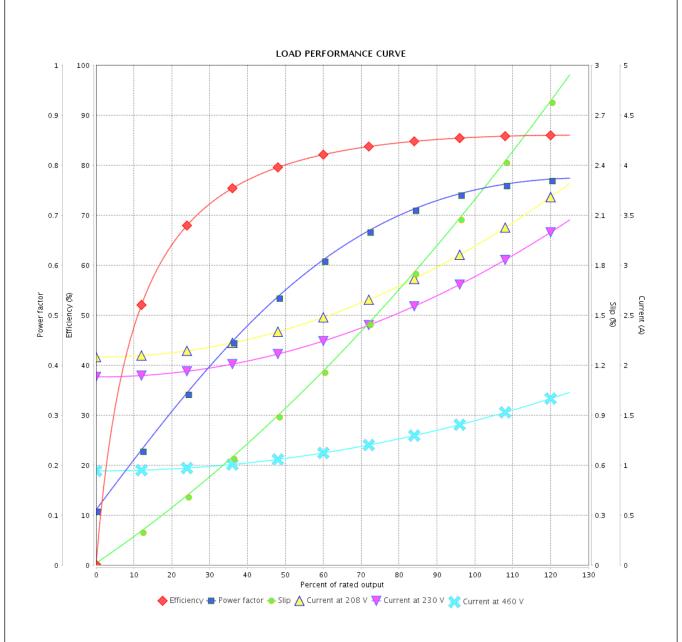
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Performance	: 230/460 V 60 Hz 4P	-			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.94/1.47 A : 8.6 : 2.98 ft.lb : 290 % : 350 % : 1760 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1172 sq.ft.ll : Cont.(S1) : F : 1.25 : 80 K : B	0
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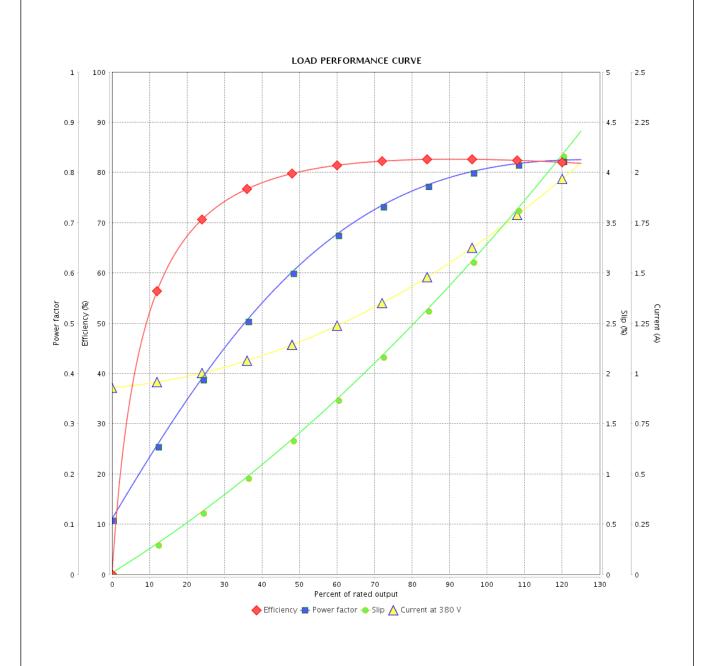
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Phase

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.71 A : 6.4 : 3.62 ft.lb : 220 % : 250 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1172 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	lb
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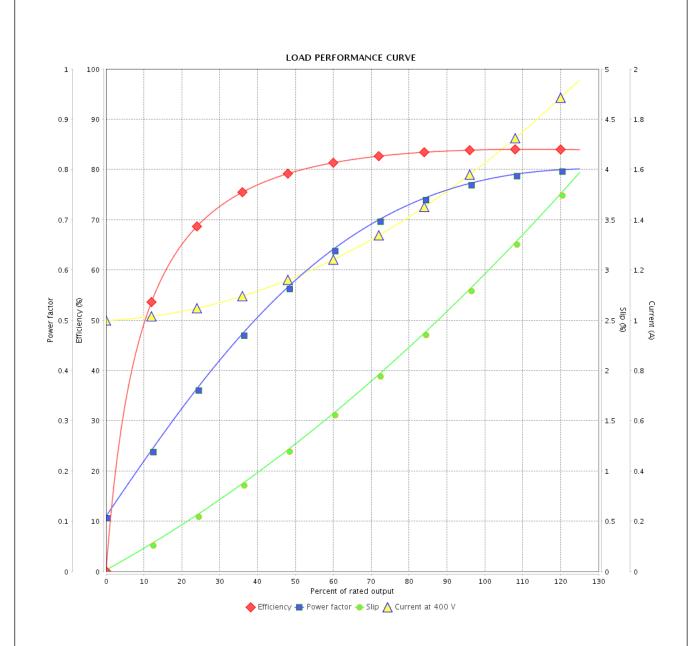
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Performance : 400 V 50 Hz 4P IE3 : 1.65 A Rated current Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.0 : 3.61 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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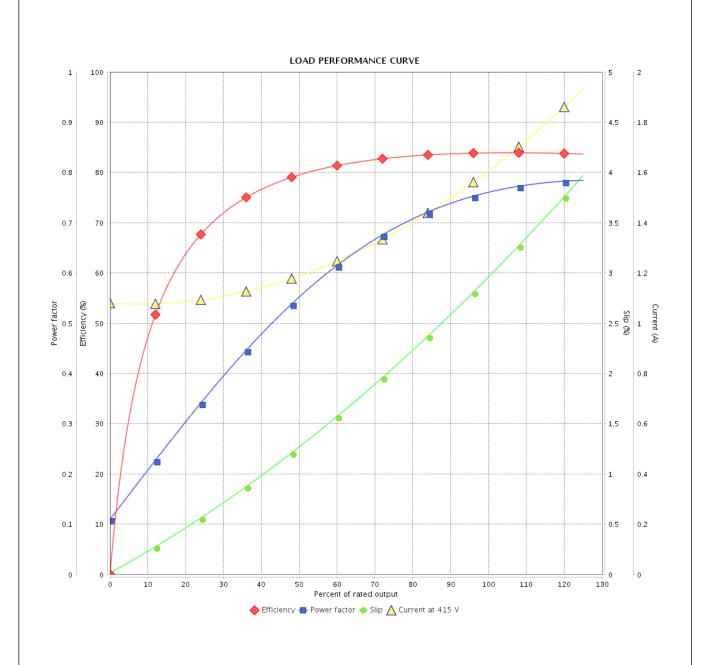
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Product line : NEMA Premium Efficiency Three- Product code : 12598384

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 1.63 A : 7.4	Moment of inertia (J)		: 0.1172 sq.ft.lb	
Rated torque	: 3.61 ft.lb	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.25 : 80 K	
Locked rotor torque	: 260 %				
Breakdown torque	: 310 %				
Rated speed	: 1455 rpm	Design		: B	
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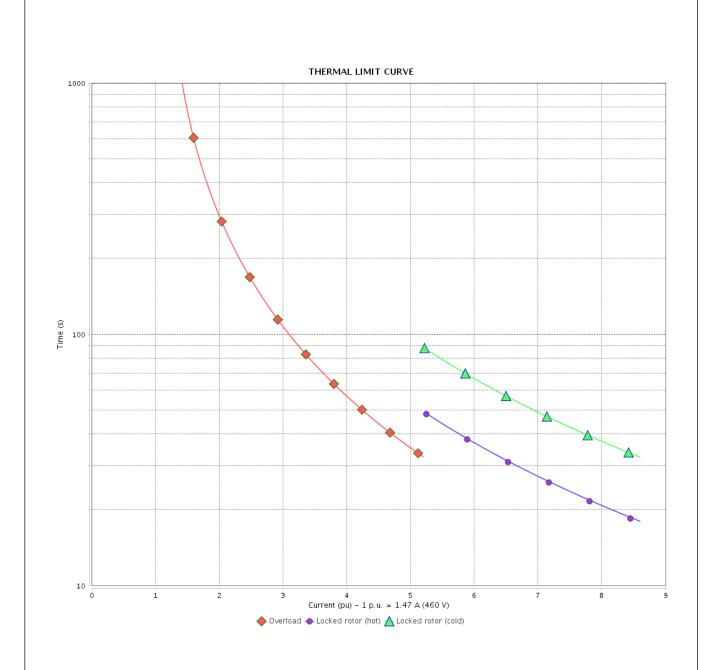


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598384 00118ET3E1	43JP-W22
Performance Rated current		: 230/460 V 60 Hz 4P : 2.94/1.47 A	Moment	of inertia (J)	: 0.1172 sq.ft.ll	h
LRC		: 8.6	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 2.98 ft.lb : 290 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 350 %	Temperat		: 80 K	
Rated speed		: 1760 rpm	Design		: B	
Heating constan						
Cooling constant	T .	Changes Cumman		Dorform	Chaalaa	Data
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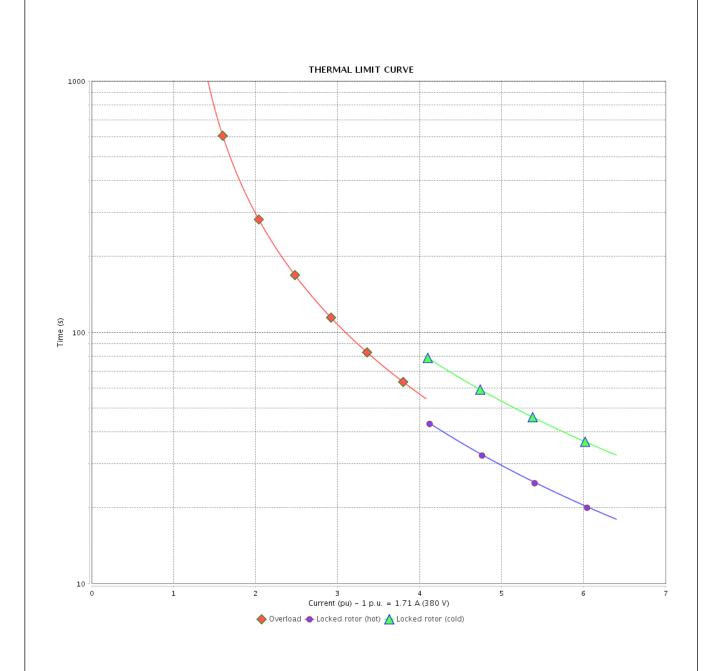


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Product line	: NEMA Premium Efficiency Phase		Product code :	12598384	42 ID MOS
			Catalog # :	00118ET3E1	43JP-W22
Performance	: 380 V 50 Hz 4P IE3	N4	finante (D	. 0 4470	<u> </u>
Rated current LRC	: 1.71 A : 6.4	Moment o Duty cycle	of inertia (J)	: 0.1172 sq.ft.l : Cont.(S1)	b
Rated torque	: 3.62 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 250 % : 1450 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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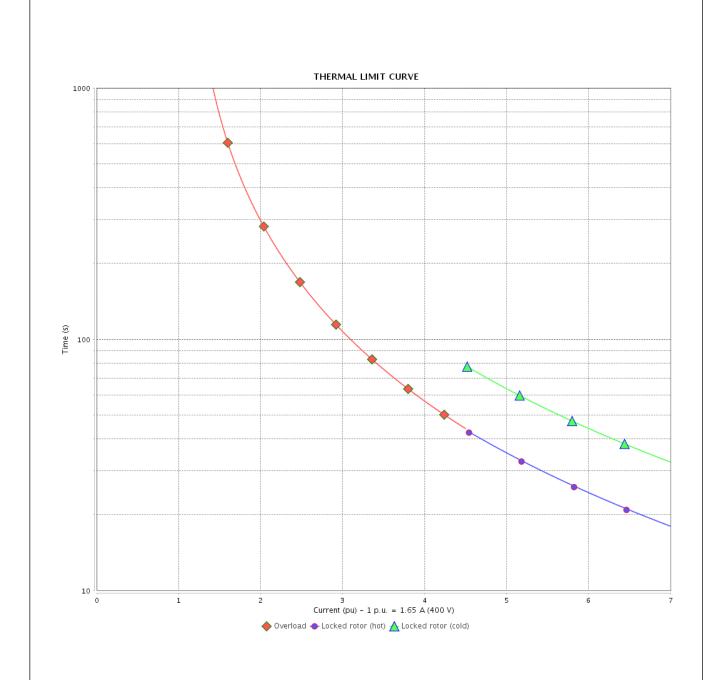


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Customer	:					
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		11430	(Catalog # :	00118ET3E14	3JP-W22
Performance		00 V 50 Hz 4P IE3				
Rated current LRC	: 1. : 7.	65 A 0	Moment of Duty cycle	finertia (J)	: 0.1172 sq.ft.lb : Cont.(S1)	
Rated torque	: 3.	61 ft.lb	Insulation	class	: F	
Locked rotor torqu		40 %	Service fa		: 1.25	
Breakdown torque Rated speed		90 % 455 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant						
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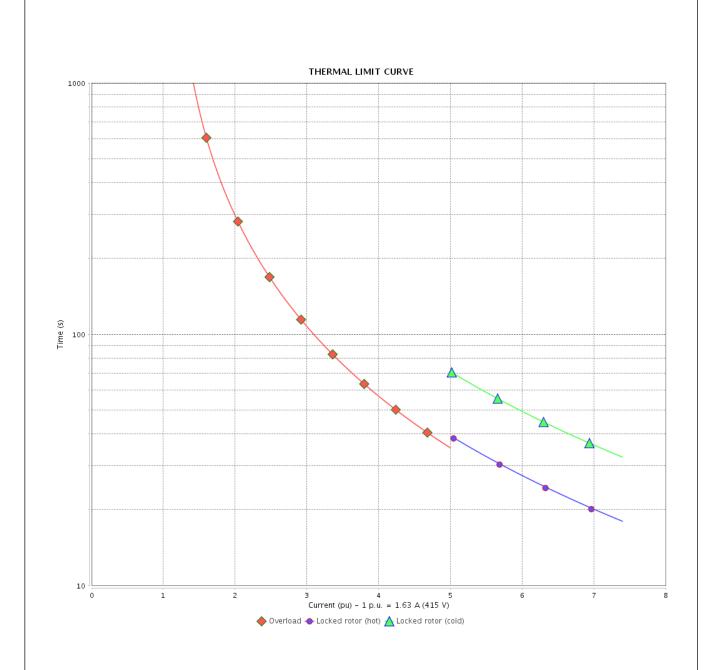


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598384 00118ET3E1	43JP-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 1.63 A : 7.4	Moment of Duty cycle	of inertia (J)	: 0.1172 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.61 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 260 % : 310 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1455 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant	t					
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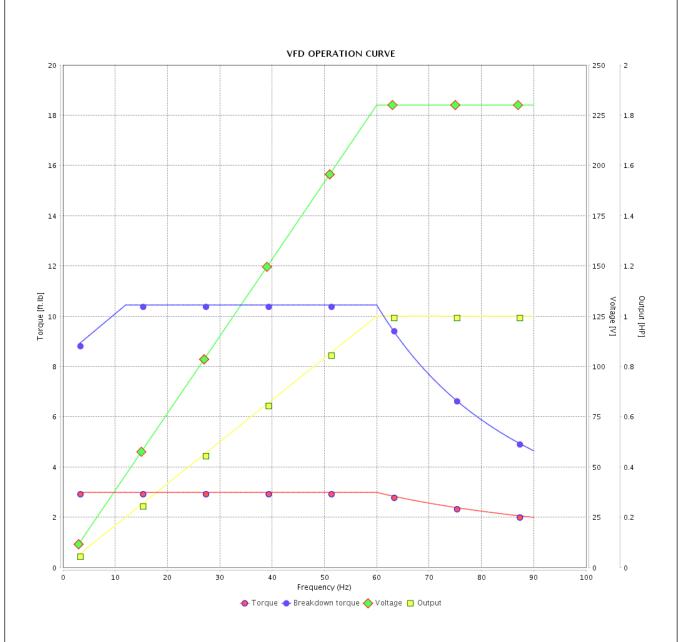
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Phase

Product code: 12598384

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Performance	: 230/460 V 60 Hz 4P				
Rated current	: 2.94/1.47 A	Moment of	inertia (J)	: 0.1172 sq.ft.l	b
LRC	: 8.6	Duty cycle		: Cont.(S1)	
Rated torque	: 2.98 ft.lb	Insulation of	lass	: F	
Locked rotor torque	: 290 %	Service fac	tor	: 1.25	
Breakdown torque	ie : 350 % Te		Temperature rise		
Rated speed	: 1760 rpm	Design		: B	
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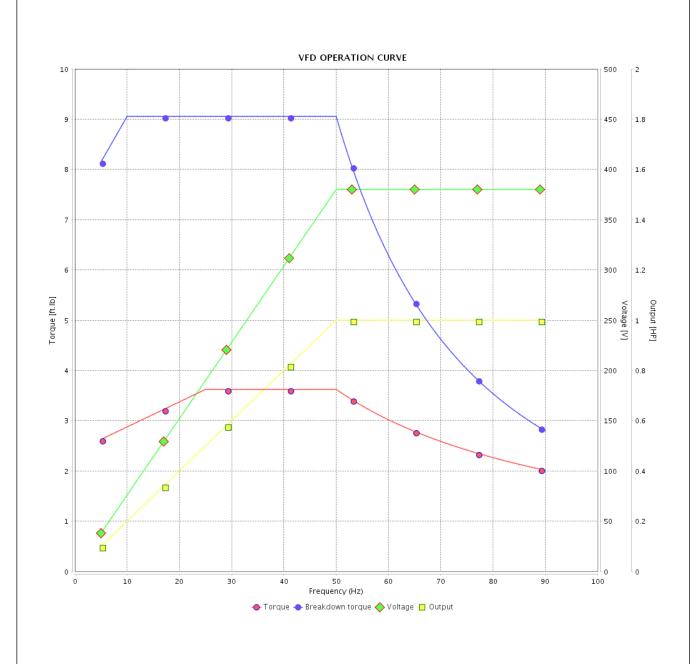


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Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	:1	: 1.71 A		Moment of inertia (J)		lb
LRC	: 6.4		Duty cycle	;	: Cont.(S1)	
Rated torque	Rated torque : 3.62 ft.lb		Insulation	class	: F	
Locked rotor torqu	Locked rotor torque : 220 % S		Service fa	Service factor		
Breakdown torque	eakdown torque : 250 %		Temperati	Temperature rise		
Rated speed	: 1	450 rpm	Design		: B	
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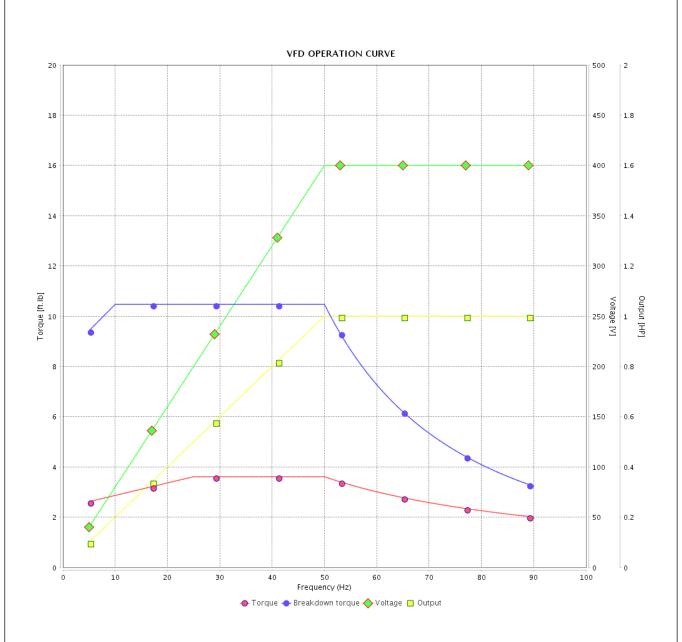
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Product line : NEMA Premium Efficiency Three-

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Performance : 400 V 50 Hz 4P IE3 : 1.65 A Rated current Moment of inertia (J) : 0.1172 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.0 : 3.61 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page

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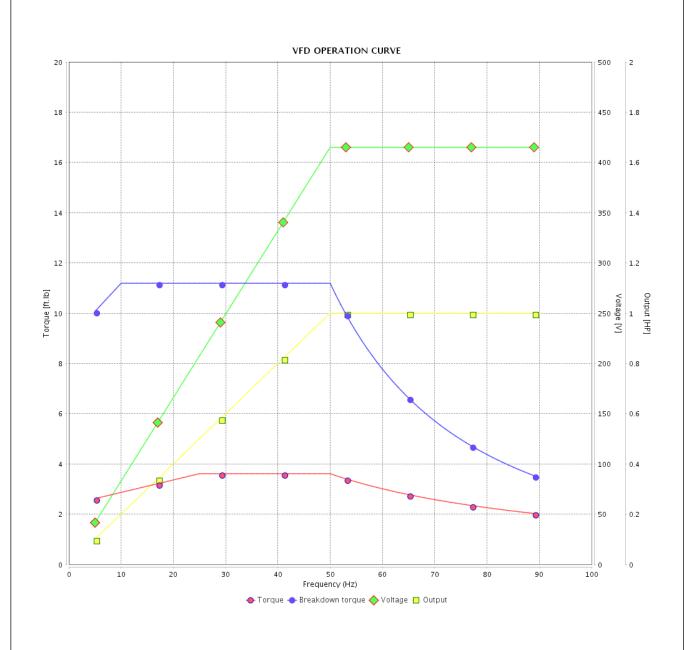
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Rated current : 1.63 A Moment of inertia (J) : 0.1172 sq.ft.lb LRC : 7.4 Duty cycle : Cont.(S1) Rated torque : 3.61 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B	Performance	: 415 V 50 Hz 4P IE3				
	LRC Rated torque Locked rotor torque Breakdown torque	: 7.4 : 3.61 ft.lb : 260 % : 310 %	Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.25 : 80 K)
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