DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598478

Catalog #: 00156ET3E143JM-W22

Frame : 143/5JM Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Approx. weight3 Altitude : 48.2 lb

Protection degree : IP55 Moment of inertia (J) : 0.0470 sq.ft.lb

Design : B Output [HP] 1.5 1.5 1.5 1.5 2 2 2 Poles 2 2 2 2 60 50 50 50 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 380 400 415 Rated current [A] 3.92/1.96 2.36 2.21 1.69 1.66 1.65 2.24 L. R. Amperes [A] 15.8 34.9/17.4 15.5 16.1 16.8 16.6 17.5 10.2x(Code | 6.7x(Code H) | 7.4x(Code J) | 7.9x(Code K) LRC [A] 8.9x(Code L) 9.2x(Code 9.7x(Code M) M) N) No load current [A] 1.66/0.830 0.780 0.840 0.900 0.780 0.840 0.900 Rated speed [RPM] 3480 2905 2915 2920 2835 2860 2870 5.50 4.67 Slip [%] 3.33 3.17 2.83 2.67 4.33 Rated torque [ft.lb] 2.26 1.81 1.80 1.80 2.78 2.75 2.74 Locked rotor torque [%] 310 340 380 420 220 260 280 Breakdown torque [%] 370 390 440 480 260 290 310 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 80 K 27s (cold) 27s (cold) 27s (cold) 27s (cold) 37s (cold) 27s (cold) 27s (cold) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 68.0 dB(A)

Locked rotor time Noise level² 25% 81.1 79.9 78.4 77.9 80.6 81.6 81.7 50% 81.5 80.5 79.3 78.9 81.0 82.0 82.0 Efficiency (%) 75% 84.0 83.2 82.8 82.7 81.5 82.5 82.5 100% 83.4 84.0 83.4 83.4 81.5 82.5 82.5 25% 0.43 0.39 0.35 0.33 0.51 0.46 0.43 50% 0.68 0.63 0.58 0.55 0.75 0.70 0.67 Power Factor 0.71 75% 0.78 0.74 0.68 0.84 0.80 0.78 100% 0.84 0.81 0.78 0.76 0.87 0.86 0.84

Drive end Non drive end Foundation loads Bearing type 6206 ZZ 6204 ZZ Max. traction : 50 lb Sealing V'Ring : 98 lb V'Ring Max. compression

Lubrication interval Lubricant amount Mobil Polyrex EM

Lubricant type

Notes

USABLE @208V 4.20A SF 1.15 SFA 4.83A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



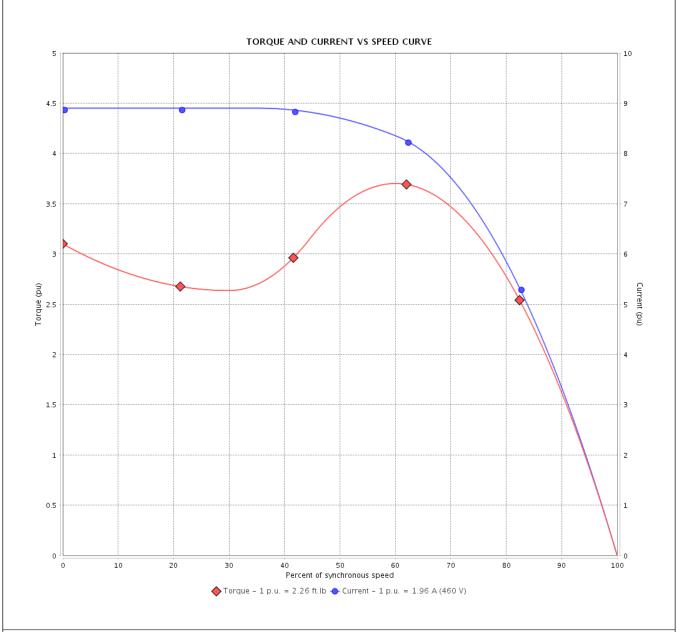
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance : 230/460 V 60 Hz 2P Rated current : 3.92/1.96 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.26 ft.lb Service factor Locked rotor torque : 310 % : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 36	

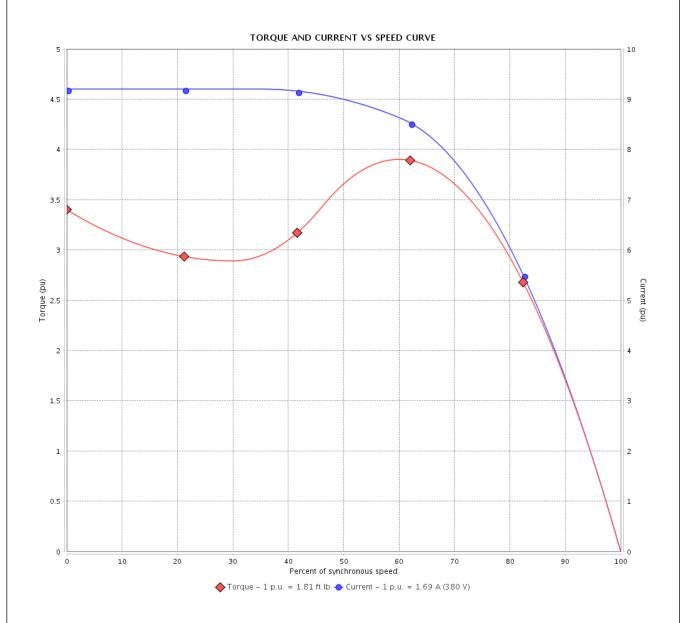
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598478

Catalog #: 00156ET3E143JM-W22



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 1.69 A	Moment of inertia (J)	: 0.0470 sq.ft.lb
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.81 ft.lb	Insulation class	:F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage

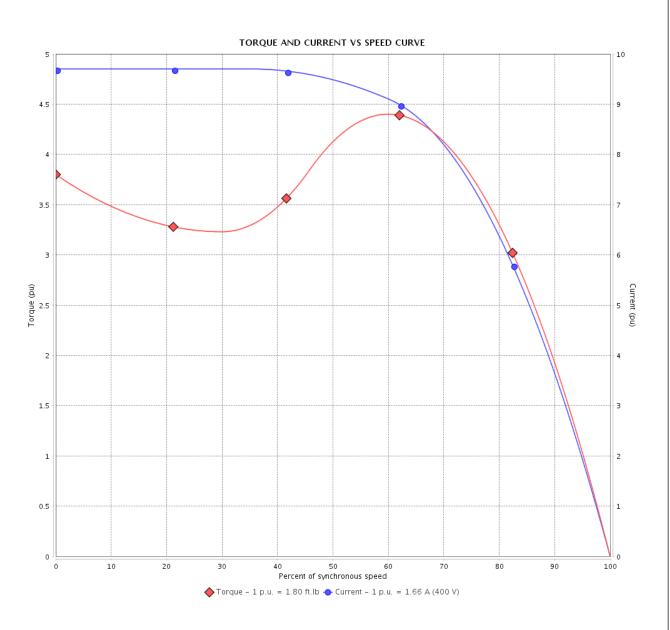


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 1.66 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) : F : 1.80 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 380 % : 1.25 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2915 rpm Design : B Locked rotor time

: 27s (cold) 15s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598478 Catalog #: 00156ET3E143JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 18 16

ated current		: 1.65			Mome			: 0.0470 s	
erformance		: 415	V 50 Hz 2F	P IE3					
			orque –	1 p.u. = 1.80	it.ib 🔷 Curren	t - 1 p.u. = 1.65	A (415 V)		
			A Torque -				5 A (415 V)		
o	10	20	30	40 Percent	50 of synchronous	60	70	80	90 100
وا ا									0
0.5									2
1									4
1.5								-	6
2									8
Torque (bu)									10
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Rated torque Locked rotor torq Breakdown torqu Rated speed	: 1 que : 4 ue : 4	.80 ft.lb .20 % .80 %	Insulation of Service factors Temperature Design	tor	: F : 1.25 : 80 K : B	
Locked rotor time		27s (cold) 15s (hot				
Rev.		Changes Summ	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5/36	

Three Phase Induction Motor - Squirrel Cage



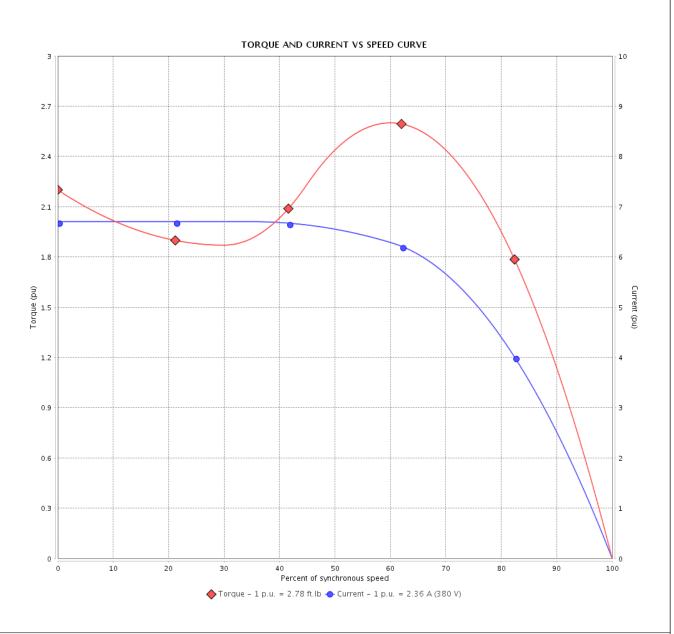
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 2.36 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.78 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2835 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			6 / 36	

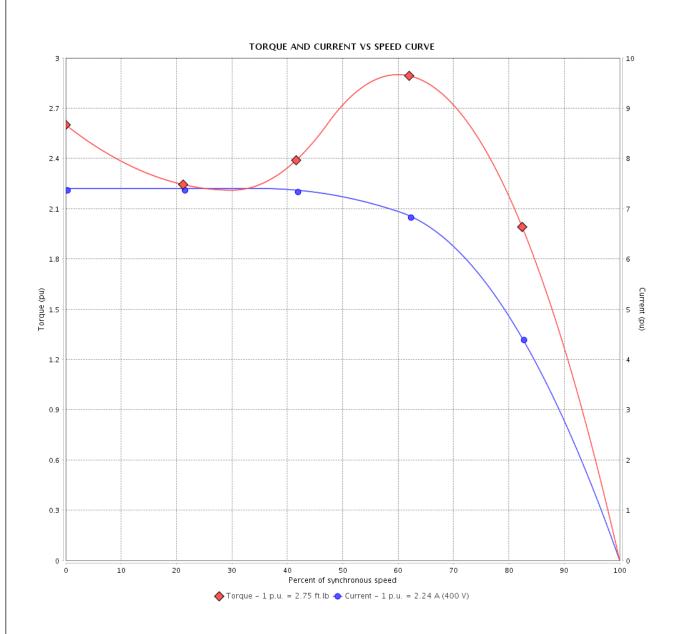
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 2.24 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 2.75 ft.lb Insulation class : F Rated torque : 1.25 Locked rotor torque : 260 % Service factor Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 2860 rpm Design

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage



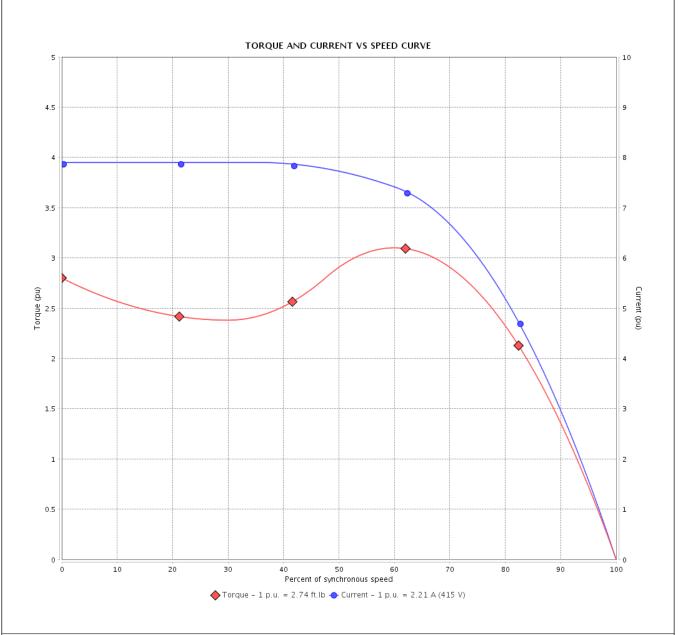
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Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.21 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.74 ft.lb : F Locked rotor torque : 280 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2870 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage

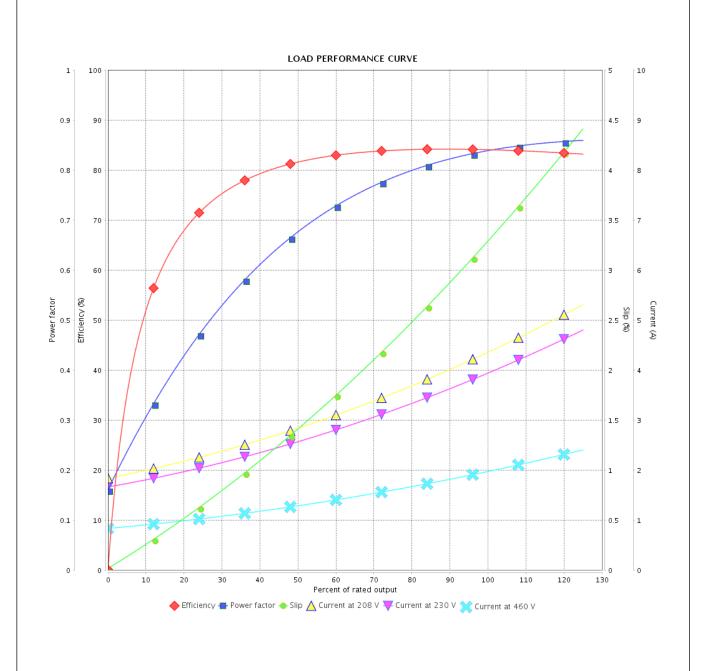


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598478

Phase

Catalog #: 00156ET3E143JM-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	Rated current : 3.92/1.96 A		Moment of	of inertia (J)	: 0.0470 sq.ft.lb	
LRC	: 8	3.9	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 2	2.26 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : :	310 %	Service fa	actor	: 1.25	
Breakdown torqu		370 %	Temperat	ure rise	: 80 K	
Rated speed	: ;	3480 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 36	

Three Phase Induction Motor - Squirrel Cage



Revision

Page

10/36

Customer :

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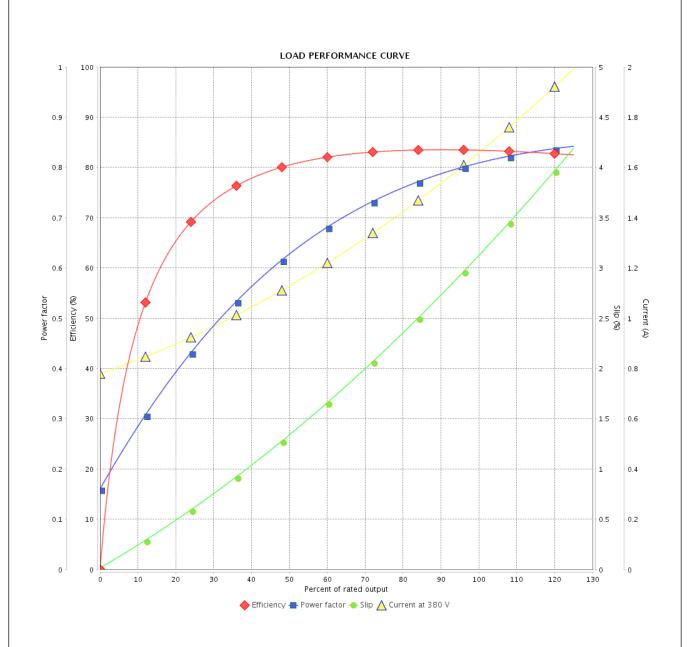
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Product line : NEMA Premium Efficiency Three- Product code : 12598478

Phase

Catalog #: 00156ET3E143JM-W22



Performance : 380 V 50 Hz 2P IE3 : 1.69 A Rated current Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 9.2 : 1.81 ft.lb Insulation class Rated torque : F Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

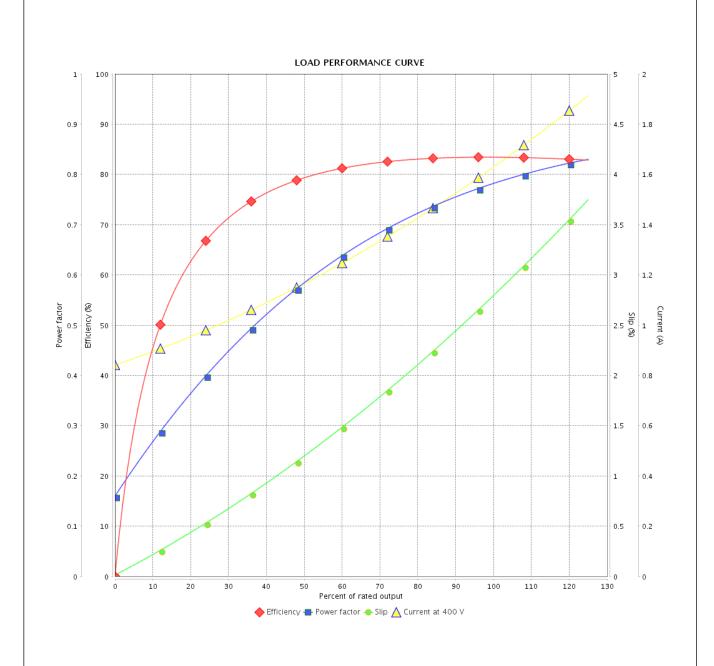


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Product line : NEMA Premium Efficiency Three- Product code : 12598478

Phase

Catalog #: 00156ET3E143JM-W22



Performance	: 4	100 V 50 Hz 2P IE3				
Rated current	: 1.66 A Mo		Moment o	f inertia (J)	: 0.0470 sq.ft.lb	
LRC	: 9	9.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:1	1.80 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :3	380 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	140 %	Temperature rise		: 80 K	
Rated speed	: 2	2915 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	12/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



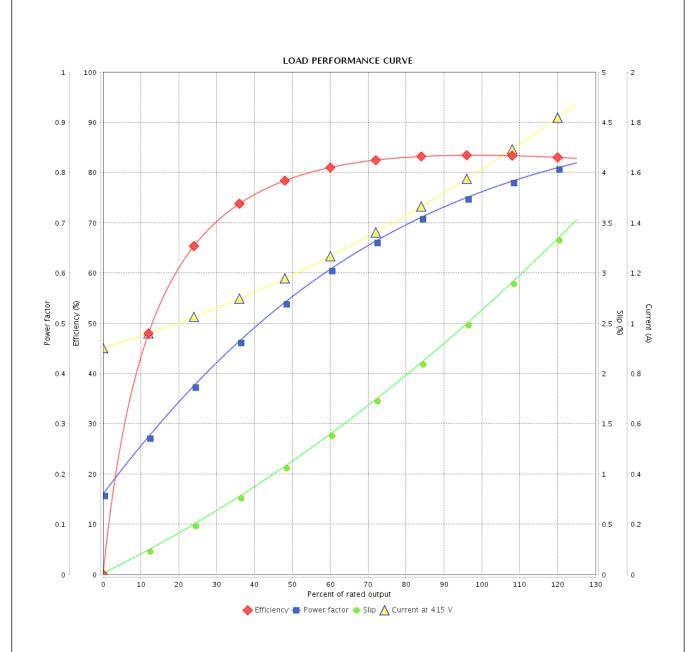
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00156ET3E143JM-W22

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 1	65 A Moment of		Moment of inertia (J) : 0.047		.lb
LRC	: 1	0.2	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	.80 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 4	20 %	Service fa	actor	: 1.25	
Breakdown torqu	e : 4	80 %	Temperat	Temperature rise		
Rated speed	: 2	920 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				12 / 36	

Three Phase Induction Motor - Squirrel Cage



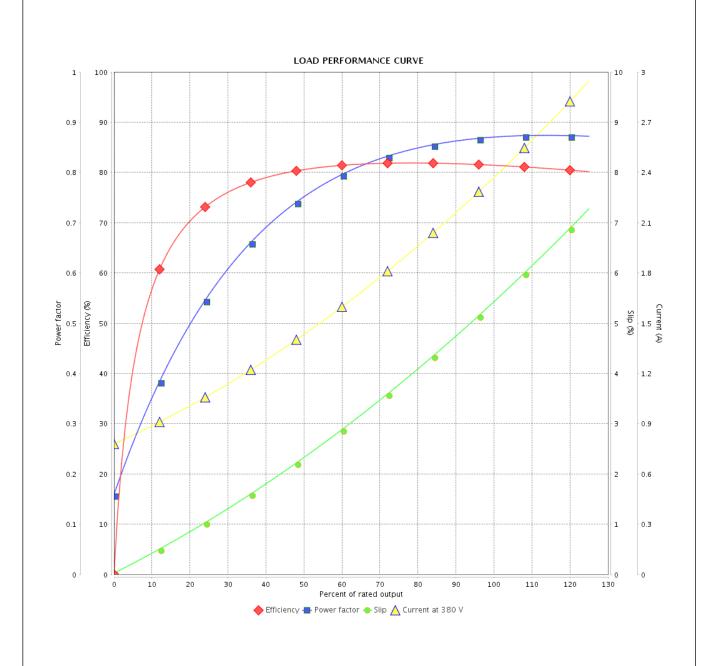
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Product line : NEMA Premium Efficiency Three- Product code : 12598478

Phase

Catalog #: 00156ET3E143JM-W22

13/36



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.36 A : 6.7 : 2.78 ft.lb : 220 % : 260 % : 2835 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

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12/04/2022

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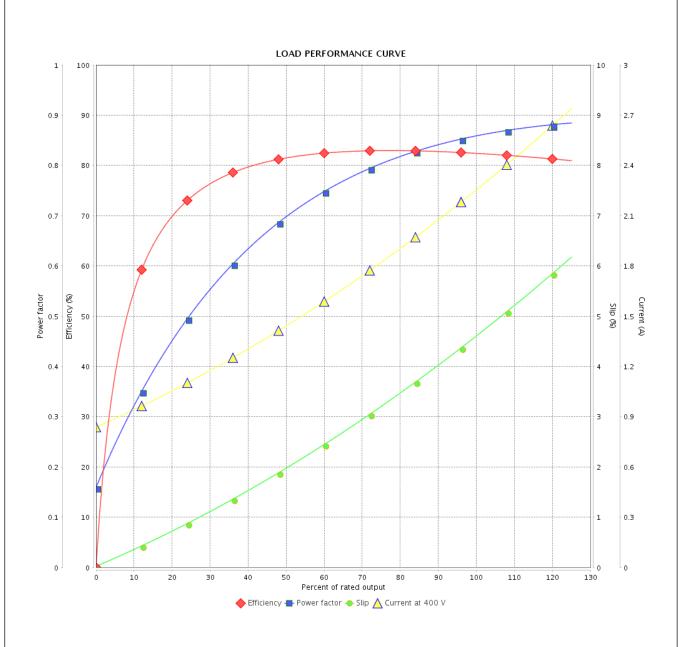
Product code: 12598478

Catalog #: 00156ET3E143JM-W22

Page

14/36

Revision



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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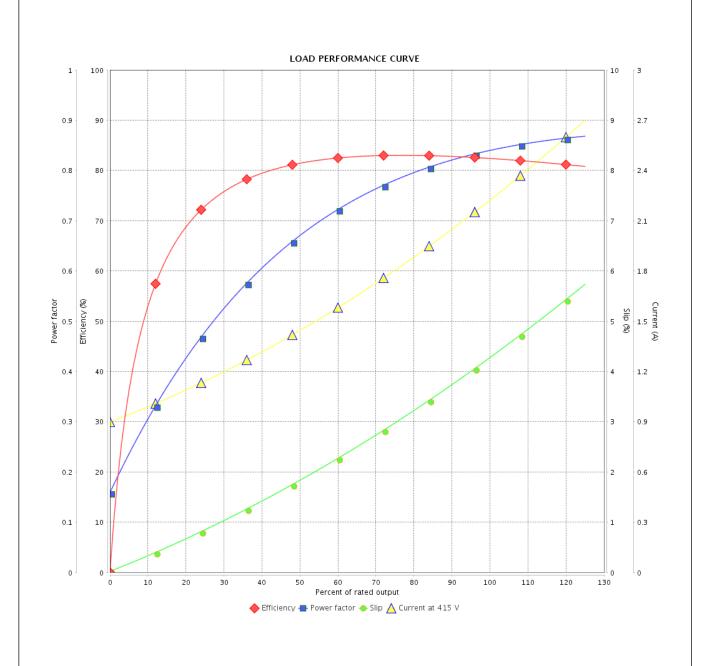
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance	: 4	415 V 50 Hz 2P IE2				
Rated current	d current : 2.21 A Moment		Moment o	f inertia (J)	: 0.0470 sq.ft	.lb
LRC	: 7	7.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	2.74 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	280 %	Service fa	ctor	: 1.25	
Breakdown torque		310 %	Temperati	Temperature rise		
Rated speed	: 2	2870 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

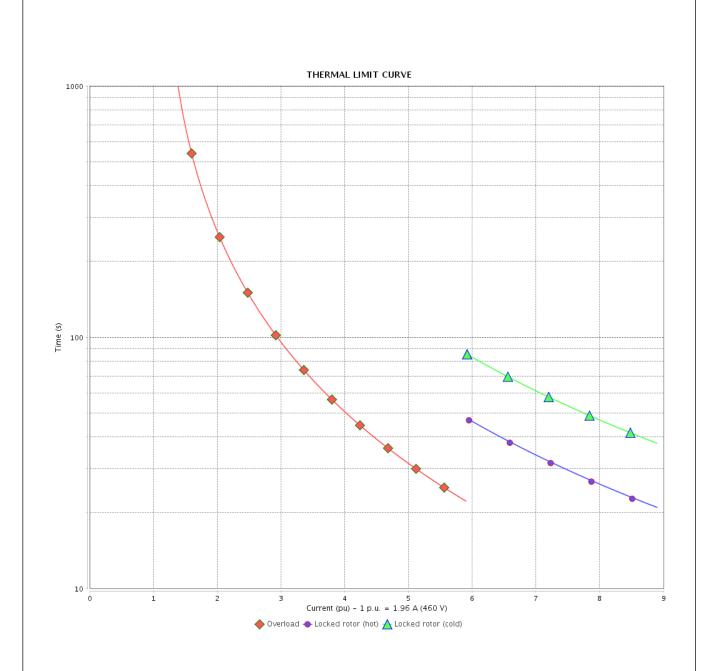


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598478 00156ET3E1	43JM-W22
Performance		: 230/460 V 60 Hz 2P		· · · · · · · · ·	0.0470 (4.1	
Rated current LRC		: 3.92/1.96 A : 8.9	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 2.26 ft.lb : 310 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 370 %	Temperat		: 80 K	
Rated speed		: 3480 rpm	Design		: B	
Heating constan						
Cooling constan Rev.		Changes Summary		Performed	Checked	Date
		<u> </u>				
Performed by					1	
Checked by					Page	Revision
Date	12/04/2022				16 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

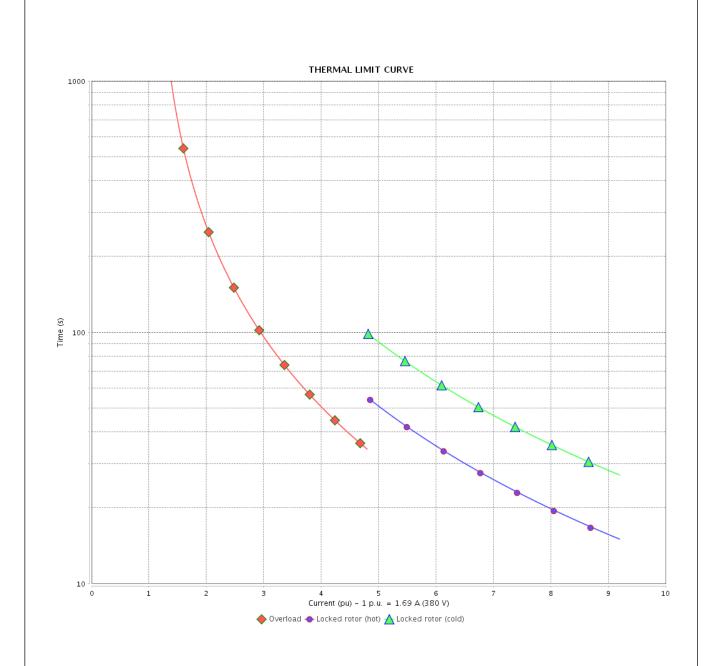


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Product line		: NEMA Premium Efficiency	Three-	Product code :	12598478	
		Tidoo		Catalog # :	00156ET3E1	143JM-W22
D. (000 \ / 50 \ \ . 0D \ 50				
Performance Rated current LRC	:	380 V 50 Hz 2P IE3 1.69 A 9.2	Duty cycle		: 0.0470 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor tord Breakdown torqu Rated speed	jue : ie :	1.81 ft.lb 340 % 390 % 2905 rpm	Insulation Service fa Temperati Design	ictor	: F : 1.25 : 80 K : B	
Heating constant	<u> </u>					
Cooling constant					1	
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Date	12/04/2022	_			18 / 36	TOVIOIOII

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

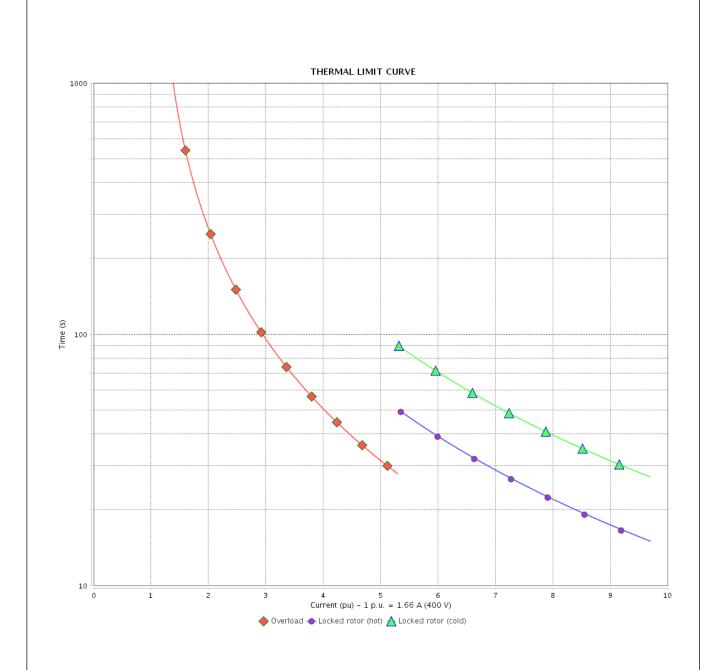


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	12598478	
		1830	(Catalog # :	00156ET3E14	13JM-W22
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9. : 1. : 38 : : 44	66 A 7 80 ft.lb 30 % 40 % 915 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 0.0470 sq.ft.lk : Cont.(S1) : F : 1.25 : 80 K : B	
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Rev.		Changes Summary		Performed	Checked	Date
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Performed by			l			
Checked by					Page	Revision
Data	12/04/2022				20/36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

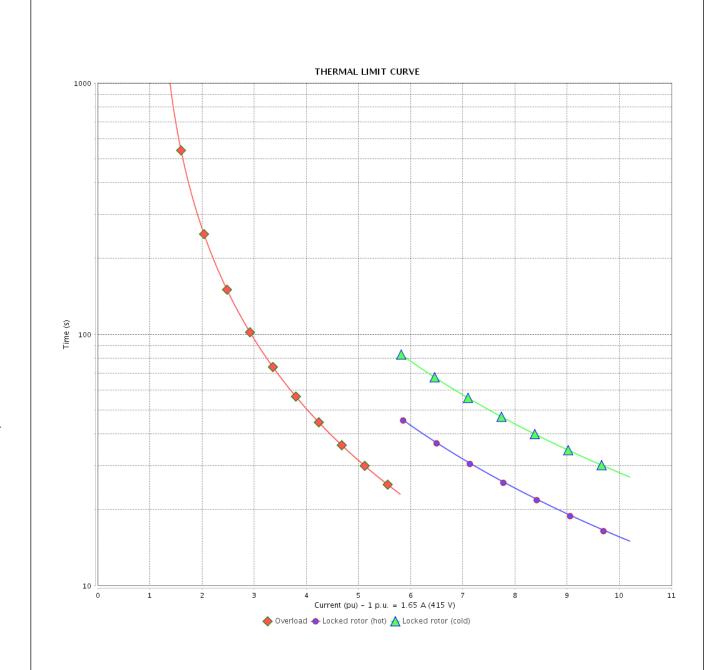


Customer	:					
Product line		NEMA Premium Efficiency [*] hase		Product code :	12598478 00156ET3E1	43JM-W22
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 10	65 A 0.2 80 ft.lb	Moment of Duty cycle Insulation	f inertia (J)	: 0.0470 sq.ft.ll : Cont.(S1) : F	0
Locked rotor torque Breakdown torque	: 42	20 % 30 %	Service fa	ctor	: 1.25 : 80 K	
Rated speed		920 rpm	Design	110 C	: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	12/04/2022				22 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

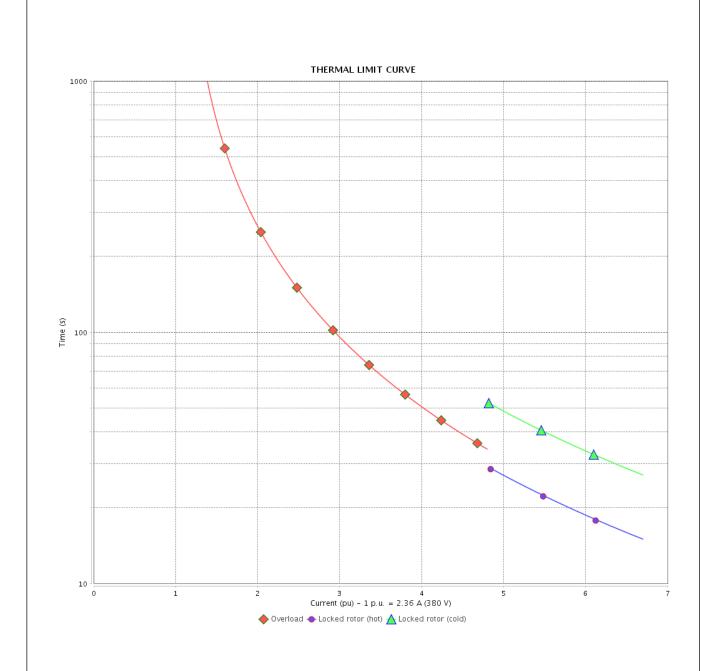


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598478 00156ET3E1	43JM-W22
Performance		: 380 V 50 Hz 2P IE2	N 4	. f : ()	0.0470 84	1.
Rated current LRC		: 2.36 A : 6.7	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque		: 2.78 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2835 rpm	Design		: B	
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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				24 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

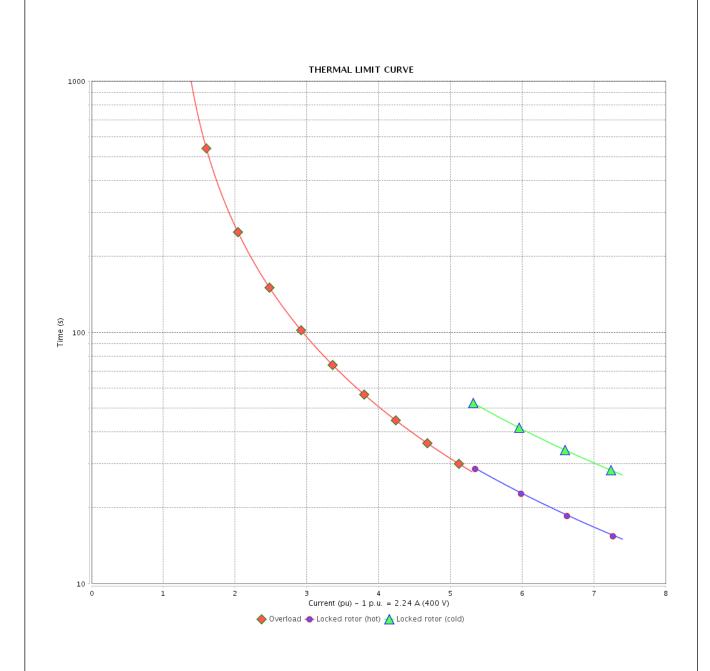


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12598478 00156ET3E1	43JM-W22
Performance	: 400 V 50 Hz 2P IE2			
Rated current LRC	: 2.24 A : 7.4	Moment of inertia (J) Duty cycle	: 0.0470 sq.ft.lb : Cont.(S1))
Rated torque	: 2.75 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 260 % : 290 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 2860 rpm	Design	: B	
Heating constant				
Cooling constant			,	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
	4/2022		26/36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

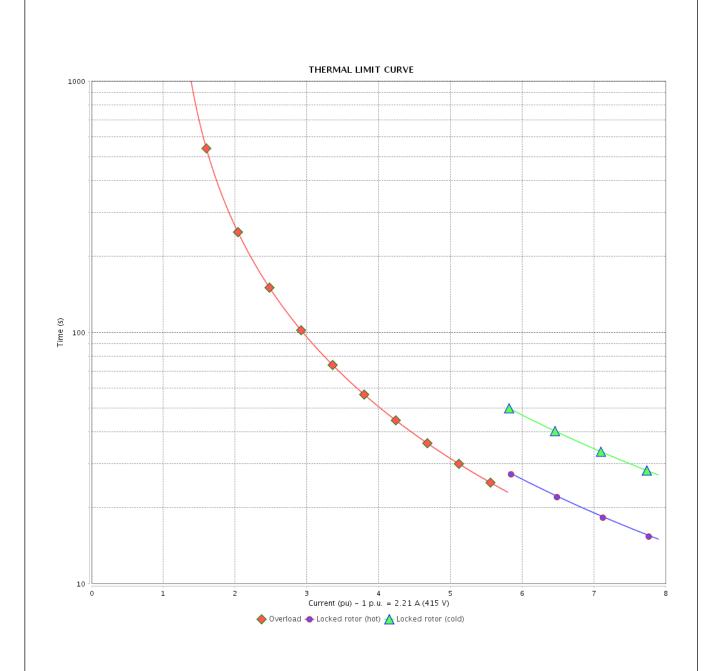


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598478 00156ET3E1	43JM-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 2.21 A : 7.9	Duty cycle		: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torc	que :	: 2.74 ft.lb : 280 %	Insulation Service fa	actor	: F : 1.25	
Breakdown torqu Rated speed		: 310 % : 2870 rpm	Temperati Design	ure rise	: 80 K : B	
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Performed by						
Checked by	12/04/2022				Page 28 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

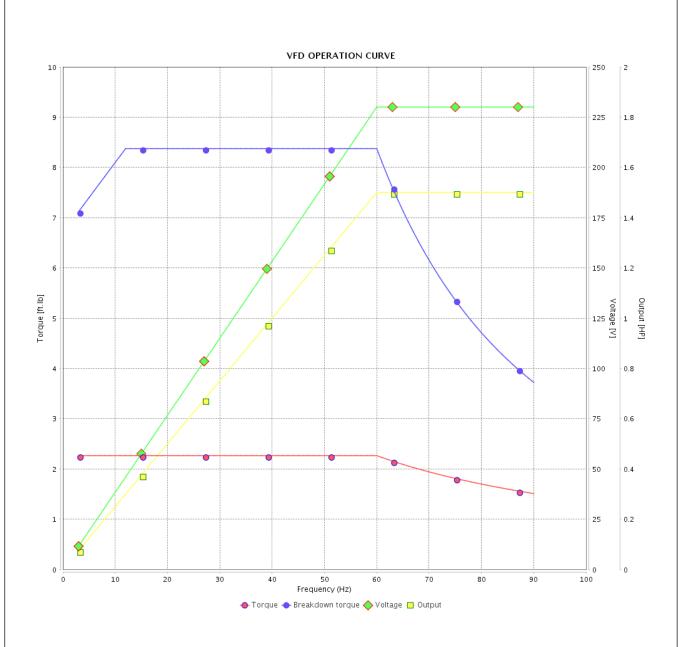
Product code: 12598478

Catalog #: 00156ET3E143JM-W22

Page

30 / 36

Revision



Performance		: 230/460 V 60 H	z 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 3.92/1.96 A : 8.9 : 2.26 ft.lb : 310 % : 370 % : 3480 rpm	Duty Insul Serv	cycle lation o ice fac peratu		: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Sur	mmary		Performed	Checked	Date
Performed by				•			

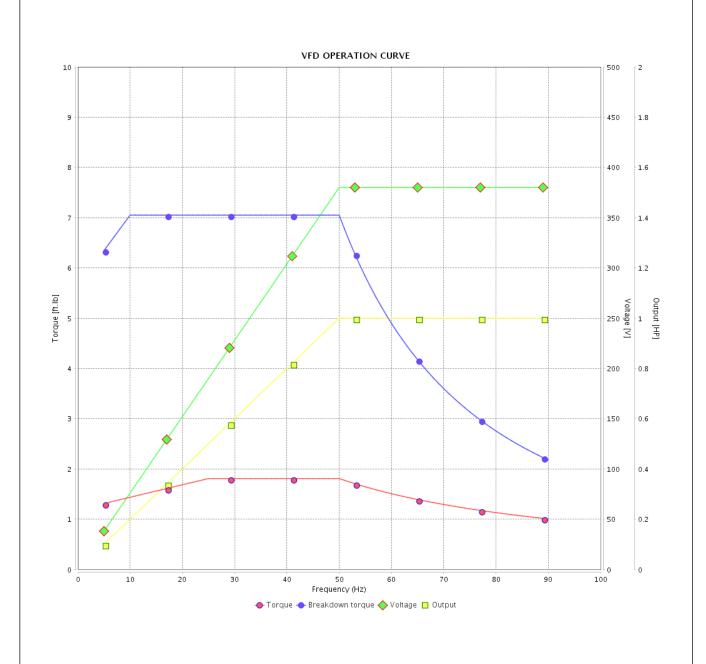
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1	: 1.69 A Moment of inertia (nent of inertia (J) : 0.		lb
LRC	: 9	.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	.81 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 3-	40 %	Service fa	actor	: 1.25	
Breakdown torque	: 3	90 %	Temperati	Temperature rise		
Rated speed	: 2	905 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				31 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

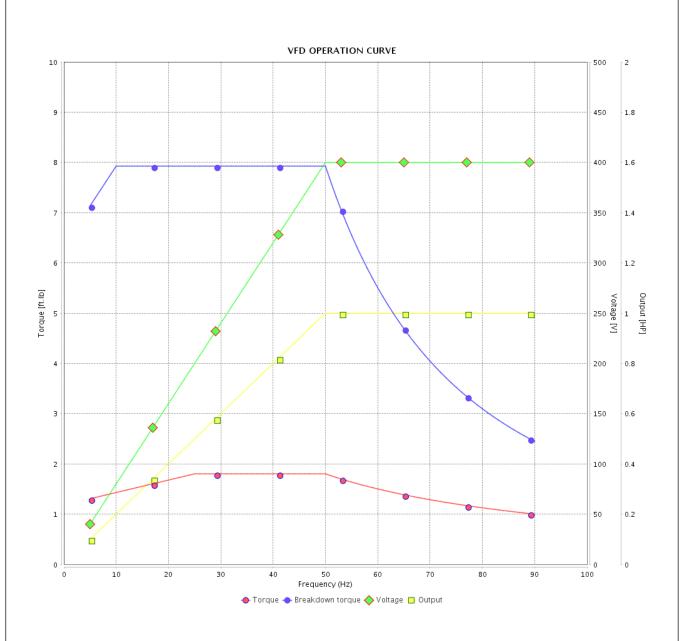
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12598478

Catalog #: 00156ET3E143JM-W22

32 / 36



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	C : 9.7 Duty cycle led torque : 1.80 ft.lb Insulation class leked rotor torque : 380 % Service factor akdown torque : 440 % Temperature rise		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K		lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

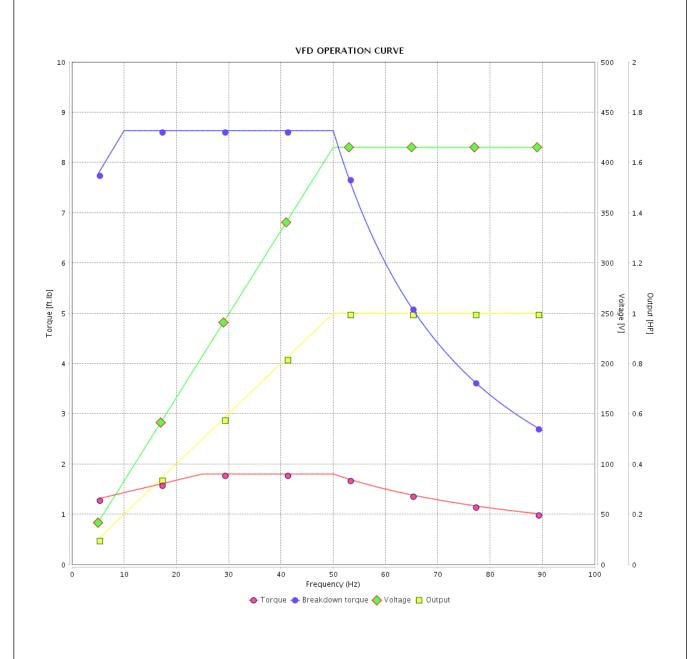
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598478

Catalog #: 00156ET3E143JM-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	ed current : 1.65 A Moment of inertia (J)		f inertia (J)	: 0.0470 sq.ft.	.lb	
LRC	: 1	0.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	l.80 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 4	120 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	l80 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	2920 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				33 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Pro

Phase

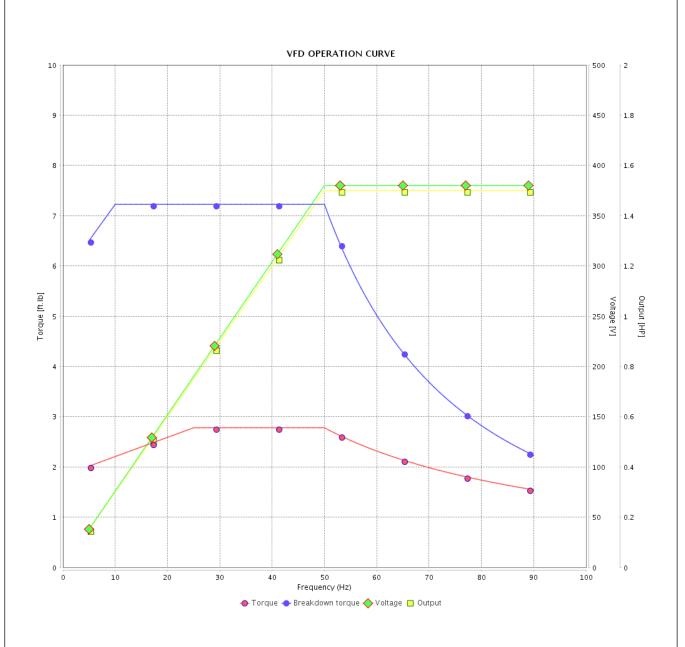
Product code: 12598478

Catalog #: 00156ET3E143JM-W22

Page

34 / 36

Revision



Performance	: 3	880 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 jue : 2	2.36 A 5.7 2.78 ft.lb 220 % 260 % 2835 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0470 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



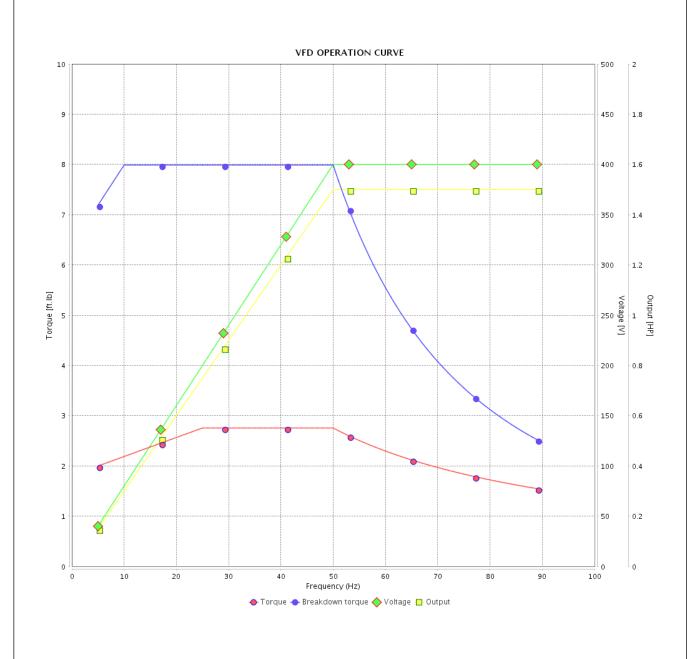
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00156ET3E143JM-W22

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Performance	: 4	00 V 50 Hz 2P IE2					
Rated current	ated current : 2.24 A		Moment o	f inertia (J)	: 0.0470 sq.ft.lb		
LRC	: 7	.4	Duty cycle	;	: Cont.(S1)		
Rated torque	: 2	.75 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 2	60 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	90 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	860 rpm	Design		: B		
Rev.	-	Changes Summar	у	Performed	Checked	Date	
Performed by							
Checked by		-			Page	Revision	
Date	12/04/2022	1			35 / 36		

Three Phase Induction Motor - Squirrel Cage



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12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

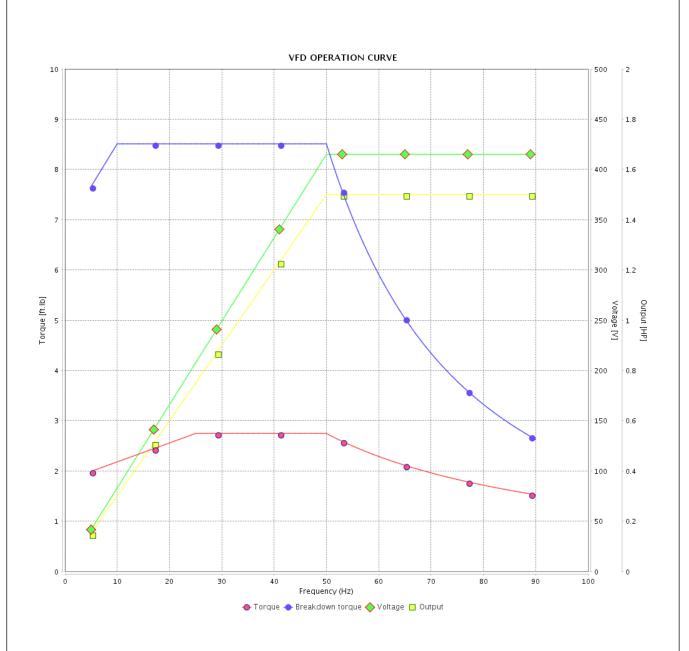
Product code: 12598478

Catalog #: 00156ET3E143JM-W22

Page

36 / 36

Revision



: 4′	15 V 50 Hz 2P IE2				
: 7. : 2. ue : 28	9 .74 ft.lb 80 % 10 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0470 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Changes Summary		Performed	Checked	Date	
	: 2 : 7 : 2 que : 2 ie : 3	ie : 310 % : 2870 rpm	: 2.21 A	: 2.21 A : 7.9 : 2.74 ft.lb : 280 % : 310 % : 2870 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.21 A Moment of inertia (J) : 0.0470 sq.ft. : 7.9 Duty cycle : Cont.(S1) : 2.74 ft.lb Insulation class : F que : 280 % Service factor : 1.25 ie : 310 % Temperature rise : 80 K : 2870 rpm Design : B

