DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12603920

Catalog #: 01518ET3E254JM-W22

Frame : 254/6JM 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 : 295 lb : IP55

: 2.62 sq.ft.lb Protection degree Moment of inertia (J) Design : B Output [HP] 15 10 10 10 15 15 15 Poles 4 4 4 60 50 50 50 50 50 50 Frequency [Hz] Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 36.0/18.0 15.2 14.8 14.5 21.5 20.5 20.0 L. R. Amperes [A] 230/115 109 115 120 105 111 118 6.4x(Code 7.2x(Code J) 7.8x(Code J) 8.3x(Code K) 4.9x(Code E) 5.4x(Code F) 5.9x(Code LRC [A] G) G) No load current [A] 14.4/7.20 6.70 7.10 7.40 7.10 7.60 7.40 Rated speed [RPM] 1770 1475 1480 1480 1455 1460 1465 Slip [%] 1.67 1.67 1.33 1.33 3.00 2.67 2.33 Rated torque [ft.lb] 44.5 35.6 35.5 35.5 54.1 54.0 53.8 Locked rotor torque [%] 220 250 280 310 160 200 210 Breakdown torque [%] 260 300 340 370 200 220 240 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 1.00 80 K 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K

Locked rotor time 30s (cold) 45s (cold) 39s (cold) 36s (cold) 27s (cold) 27s (cold) 27s (cold) 17s (hot) 25s (hot) 22s (hot) 20s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 50% 91.0 88.88 88.6 88.3 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.3 90.3 90.3 90.2 91.0 91.0 100% 92.4 90.2 90.4 90.6 90.8 91.0 91.0 25% 0.65 0.62 0.74 50% 0.68 0.59 0.71 0.69 Power Factor 75% 0.78 0.77 0.74 0.72 0.82 0.80 0.79 100% 0.83 0.83 0.81 0.79 0.86 0.85 0.84

Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 Max. traction : 471 lb V'Ring V'Ring : 766 lb Sealing Max. compression

Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 39.8A SF 1.15 SFA 45.8A

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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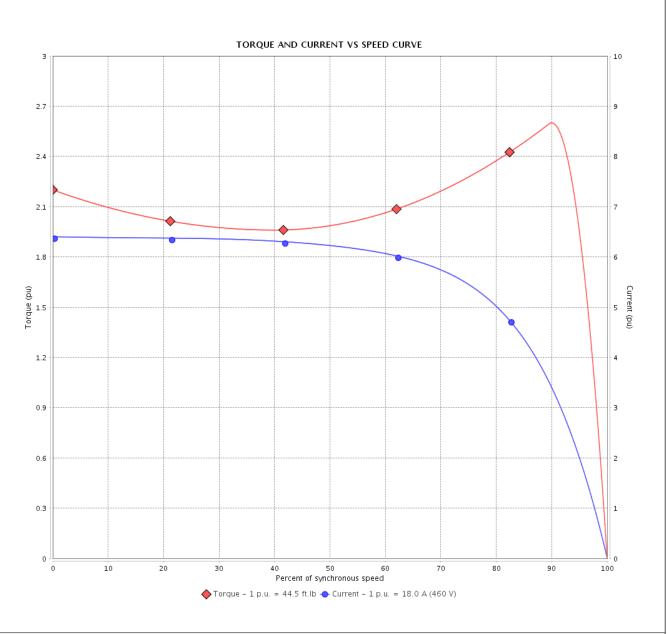


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22



Performance : 230/460 V 60 Hz 4P Rated current : 36.0/18.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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

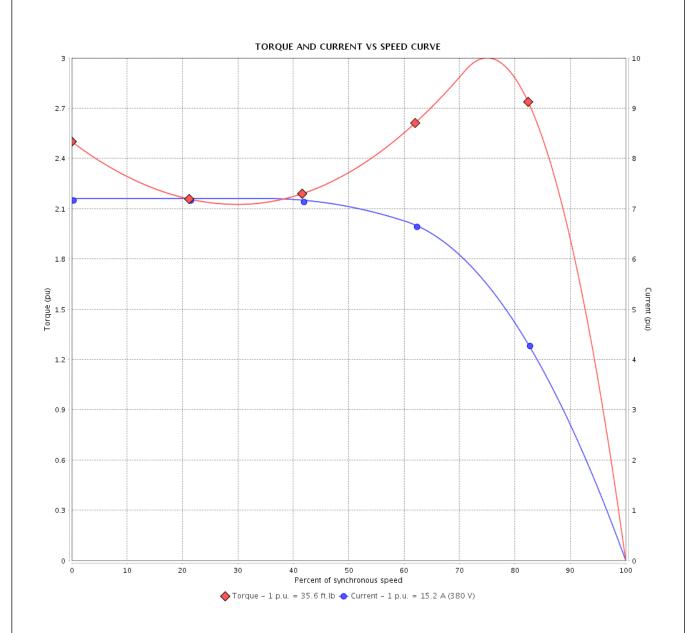
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12603920
Phase Catalog # : 01518ET3E254JM-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 15.2 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.6 ft.lb : F : 250 % Locked rotor torque Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Locked rotor time : 45s (cold) 25s (hot)

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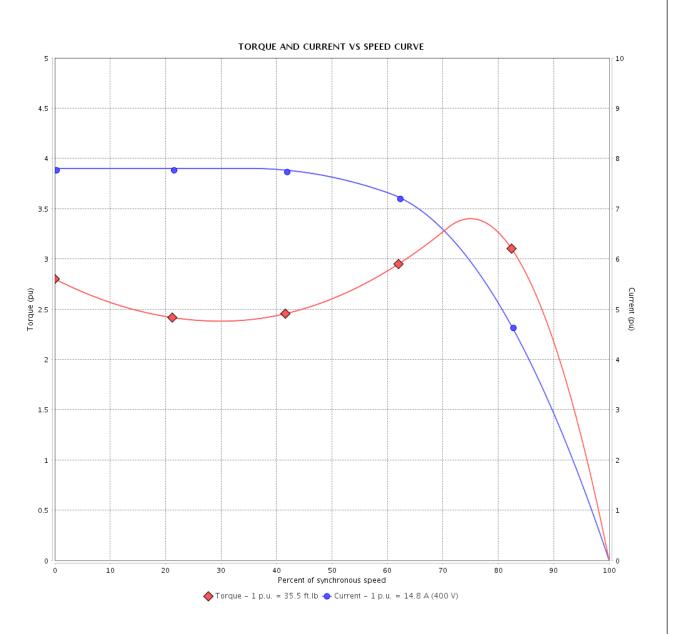


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01518ET3E254JM-W22

12603920



Performance : 400 V 50 Hz 4P IE3 Rated current : 14.8 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 35.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time

: 39s (cold) 22s (hot)

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Torque (pu)



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12603920 Catalog #: 01518ET3E254JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5

		Percent of synchronous speed		
	◆ Torque – 1	. p.u. = 35.5 ft.lb ◆ Current - 1 p.u. = 14.5 A (415 \	/)	
Performance	: 415 V 50 Hz 4P	IE3		
Rated current	: 14.5 A	Moment of inertia (J)	: 2.62 sq.ft.	lb
LRC	: 8.3	Duty cycle	: Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.25	
Breakdown torque	: 370 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	

Locked rotor time	e : 36	is (cold) 20s (hot)			
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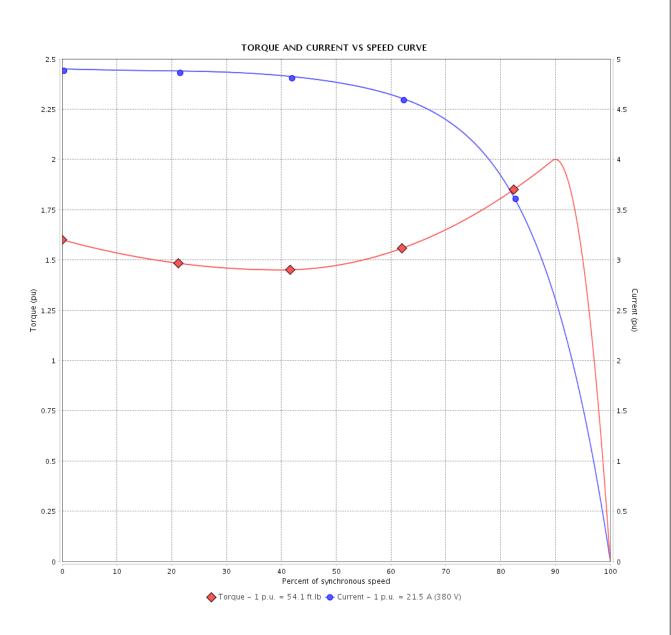
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12603920

Catalog #: 01518ET3E254JM-W22



Performance	: 380 V 50 Hz 4P IE2			
Rated current	: 21.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb	
LRC	: 4.9	Duty cycle	: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 80 K	
Rated speed	: 1455 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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

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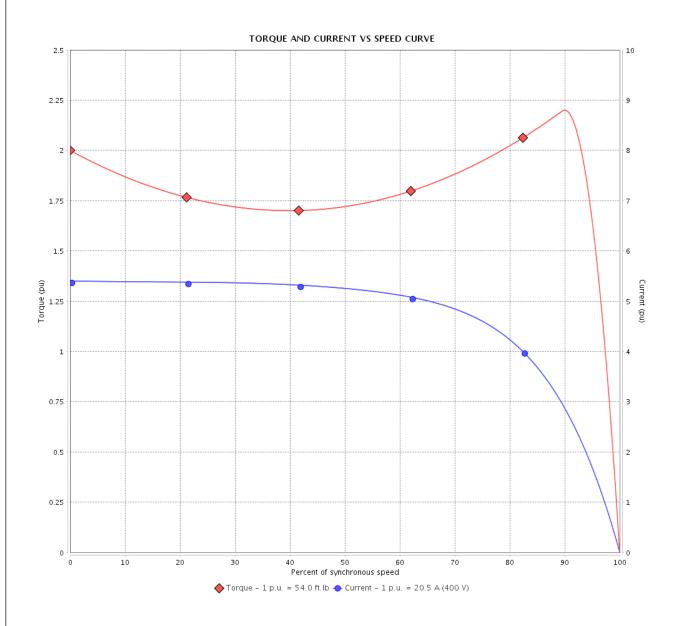
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12603920

Catalog #: 01518ET3E254JM-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 20.5 A	Moment of inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 54.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (bot)			

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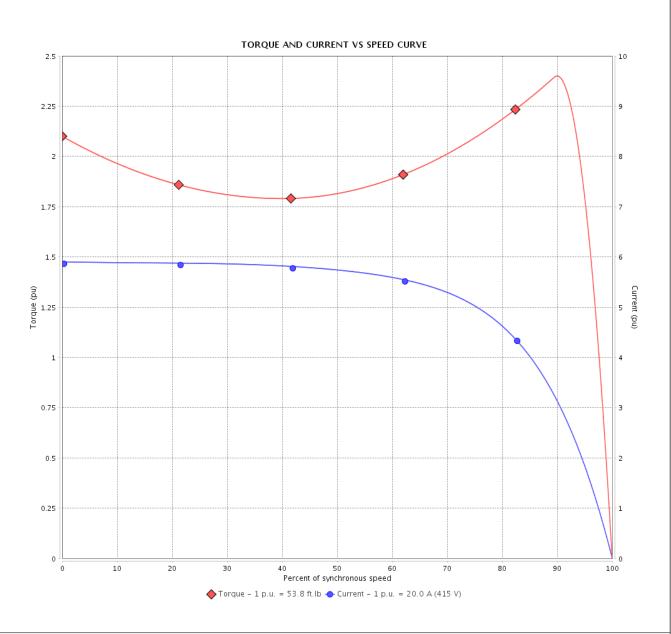
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518ET3E254JM-W22

12603920



Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.8 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

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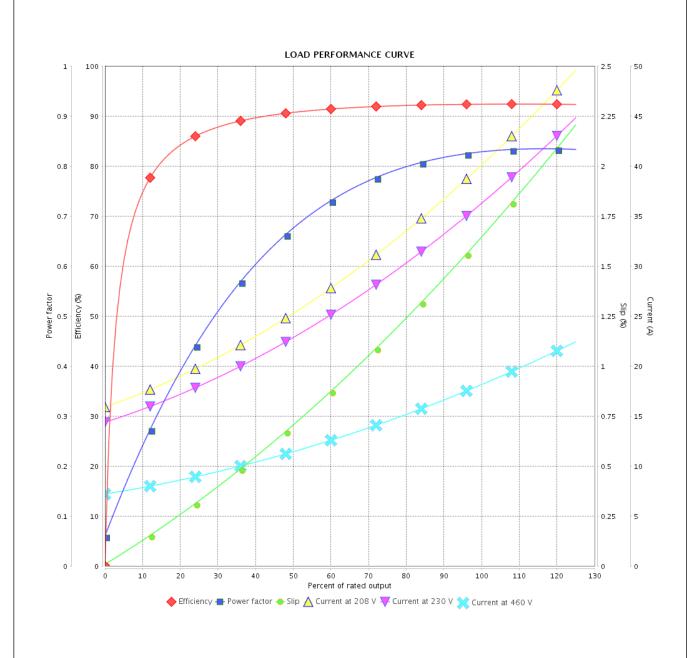


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22



Performance		30/460 V 60 Hz 4P				
Rated current	: 3	6.0/18.0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 6	.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	4.5 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	770 rpm	Design		: B	
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Date

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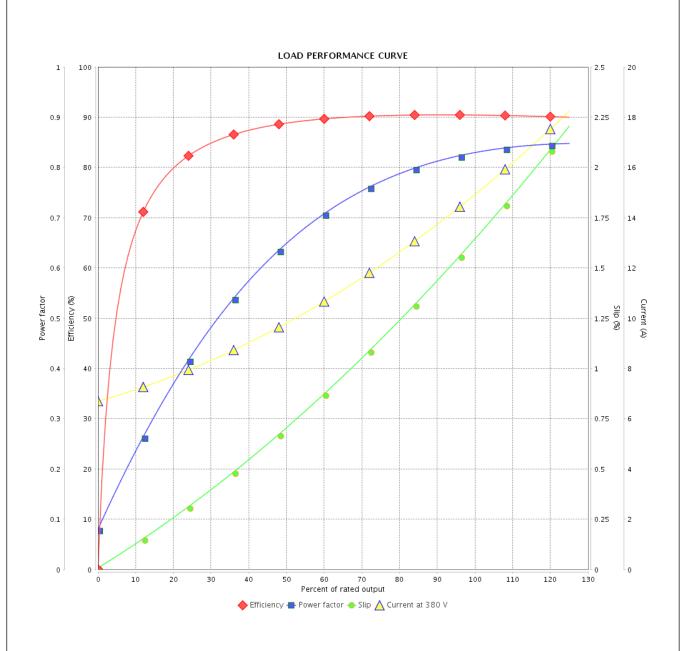
Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12603920

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Performance : 380 V 50 Hz 4P IE3 : 15.2 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 35.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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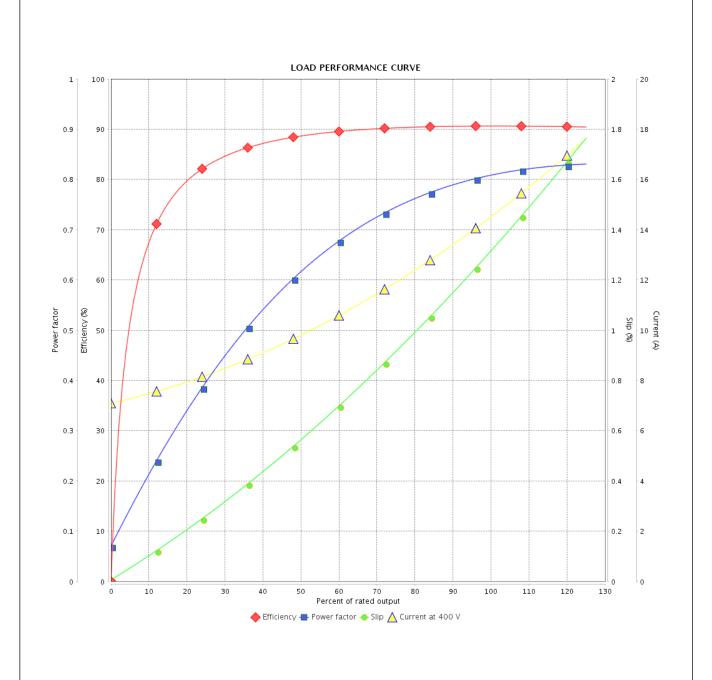


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Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 1	4.8 A	Momen	Moment of inertia (J)		
LRC	: 7	.8	Duty cy	cle	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 3	5.5 ft.lb	Insulation	on class	: F	
Locked rotor tord	que : 2	80 %	Service	factor	: 1.25	
Breakdown torqu	ie : 3	40 %			1 .	
Rated speed	: 1	480 rpm				
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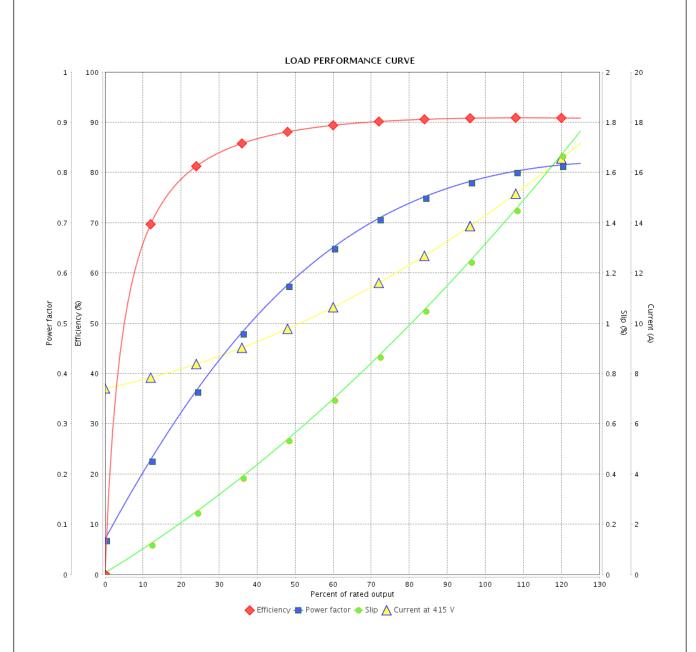
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Phase

Catalog # : 01518ET3E254JM-W22

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Performance : 415 V 50 Hz 4P IE3 : 14.5 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 35.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 310 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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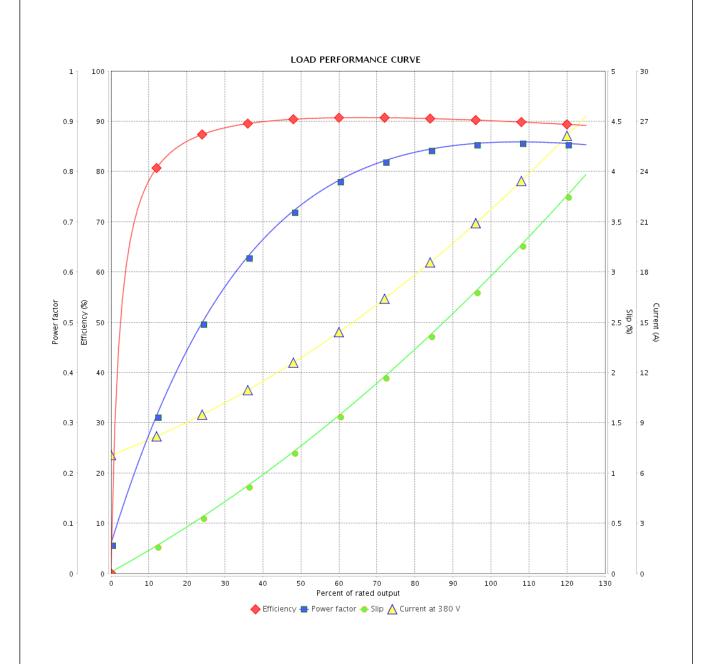
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Phase

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.5 A : 4.9 : 54.1 ft.lb : 160 % : 200 % : 1455 rpm	Moment of inertia (J) : 2.62 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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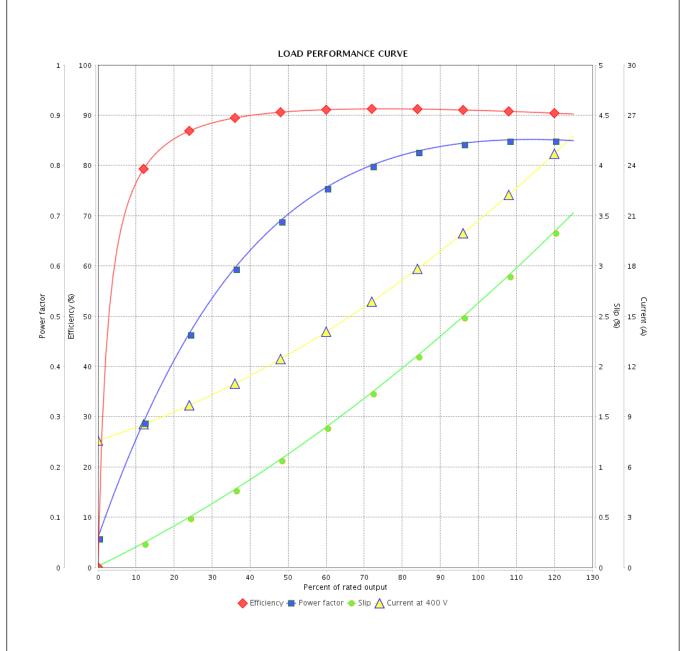
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12603920

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Performance : 400 V 50 Hz 4P IE2 Rated current : 20.5 A Moment of inertia (J) : 2.62 sq.ft.lb : 5.4 **LRC** Duty cycle : Cont.(S1) : 54.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision 14/36 Date 13/04/2022

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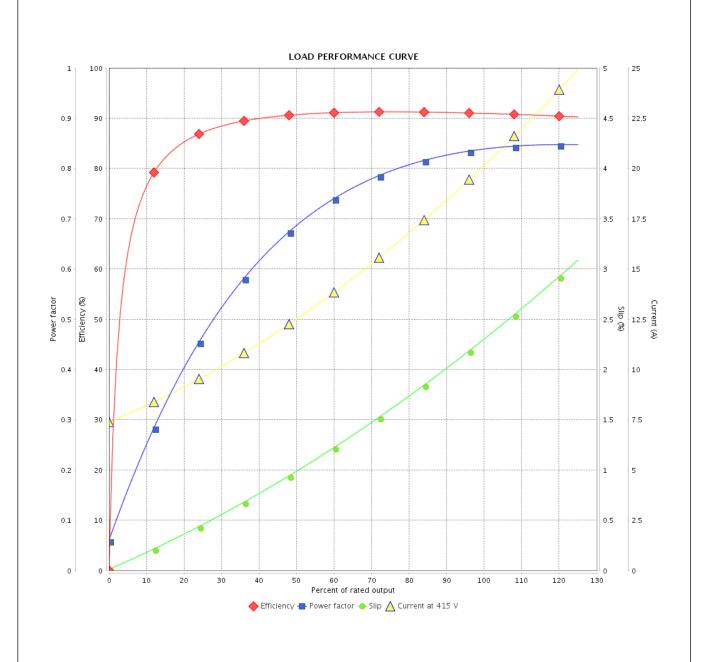


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Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22



Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current	: 2	20.0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 1	465 rpm	Design		: B	
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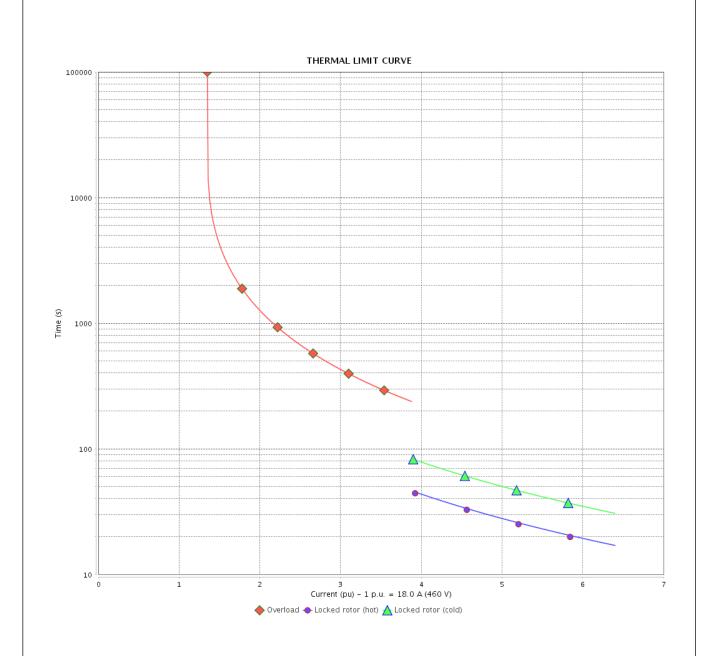


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Product line		: NEMA Premium Efficiency	Three	Product code :	12603920	
Product line		Phase			12003920	
				Catalog # :	01518ET3E25	54JM-W22
Performance		230/460 V 60 Hz 4P				
Rated current LRC		36.0/18.0 A 6.4	Moment of Duty cycle	of inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	:	44.5 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		220 % 260 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		260 % 1770 rpm	Design	uic iisc	: 80 K	
Heating constan						
Cooling constan						
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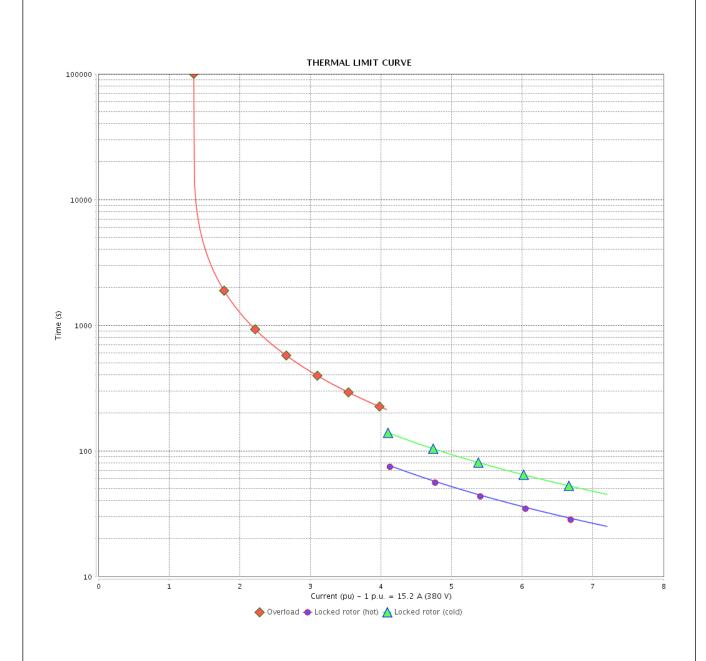


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12603920 01518ET3E25	4JM-W22
Performance		380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : :ue :: :ie ::	15.2 A 7.2 35.6 ft.lb 250 % 300 % 1475 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
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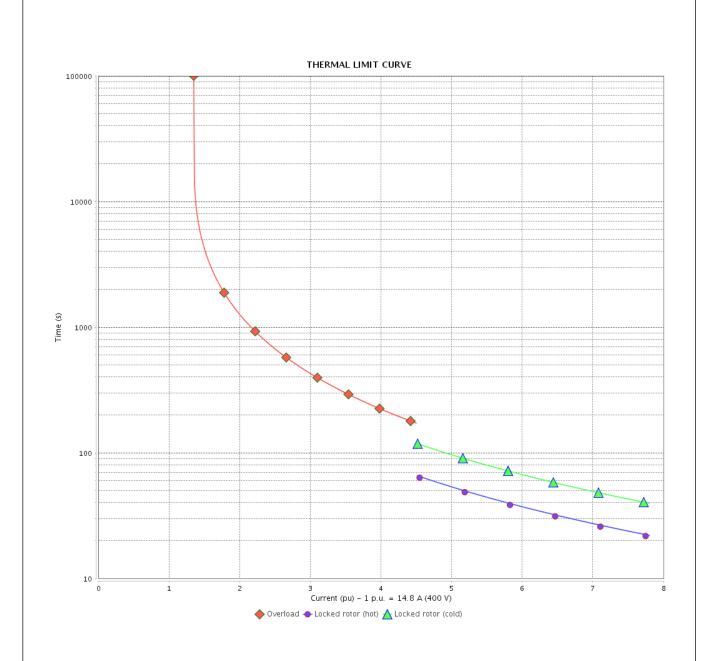


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Product line	: NEMA Premium Efficiency	Three-	Product code :	12603920	
	Phase		Catalog # :	01518ET3E2	54 IN N/22
			Catalog # .	01516E13E2	34JIVI-VVZZ
Performance	: 400 V 50 Hz 4P IE3	T			
Rated current LRC	: 14.8 A : 7.8	Moment of Duty cycle	of inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 280 %	Service fa		: 1.25	
Breakdown torque Rated speed	: 340 % : 1480 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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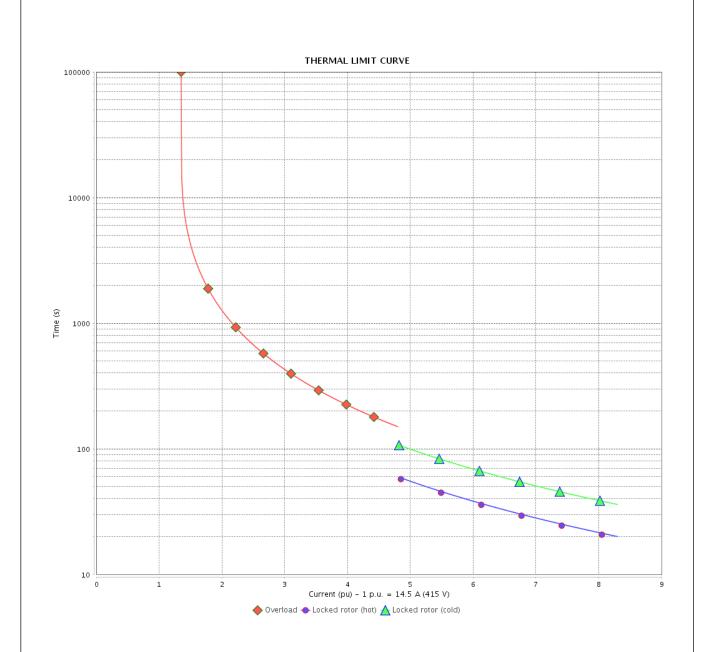


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	12603920	
		1430	(Catalog # :	01518ET3E2	54JM-W22
Performance	: 41	5 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 35 e : 31 : 37	1.5 A 3 5.5 ft.lb 0 % '0 % 180 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant						
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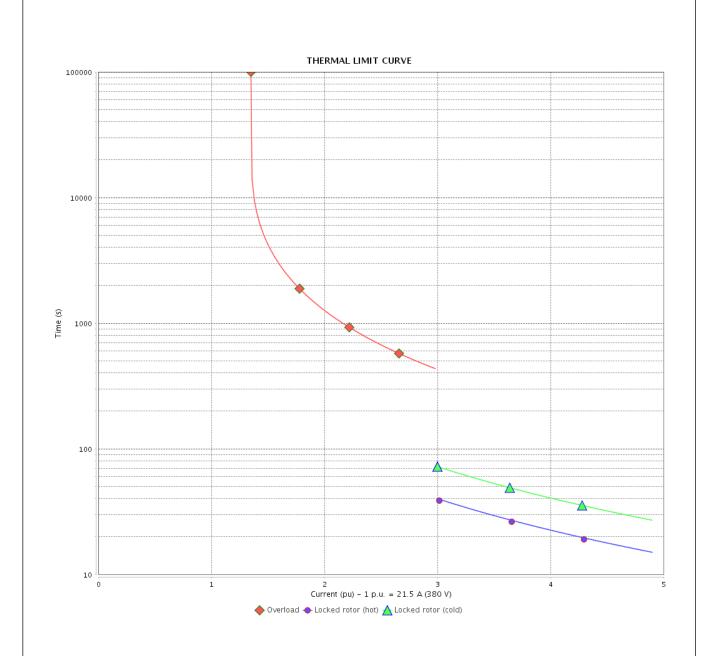


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12603920	
	Phase		Catalog # :	01518ET3E2	54 IM \N/22
			Catalog # .	01316E13E2	04JIVI-VVZZ
Performance	: 380 V 50 Hz 4P IE2	1			
Rated current LRC	: 21.5 A : 4.9	Moment of Duty cycle	of inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation	class	: F	
Locked rotor torque	: 160 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 200 % : 1455 rpm	Temperati Design	ure rise	: 80 K : B	
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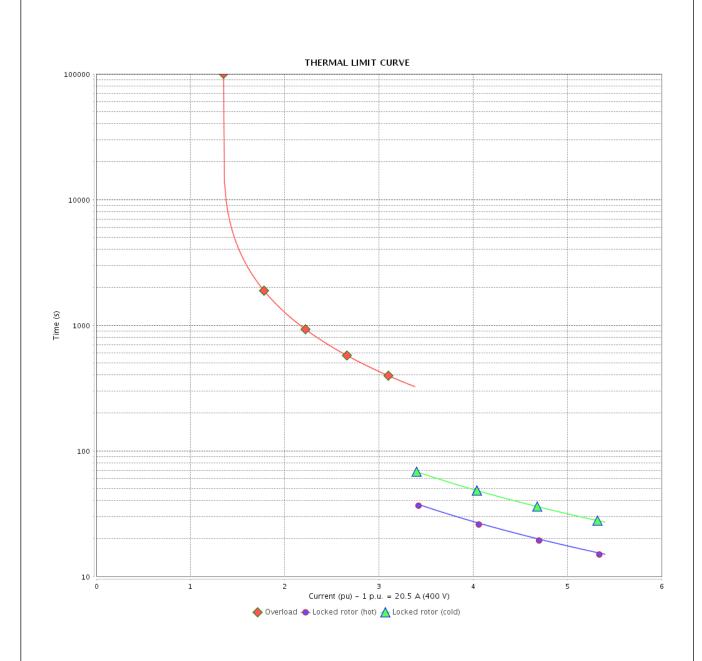


Customer	:					
Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	12603920	
	11	liase		Catalog # :	01518ET3E2	54JM-W22
Performance Rated current		00 V 50 Hz 4P IE2 0.5 A	Moment	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5.	4	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		4.0 ft.lb 00 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e : 22	20 %	Temperatu		: 80 K	
Rated speed	: 14	160 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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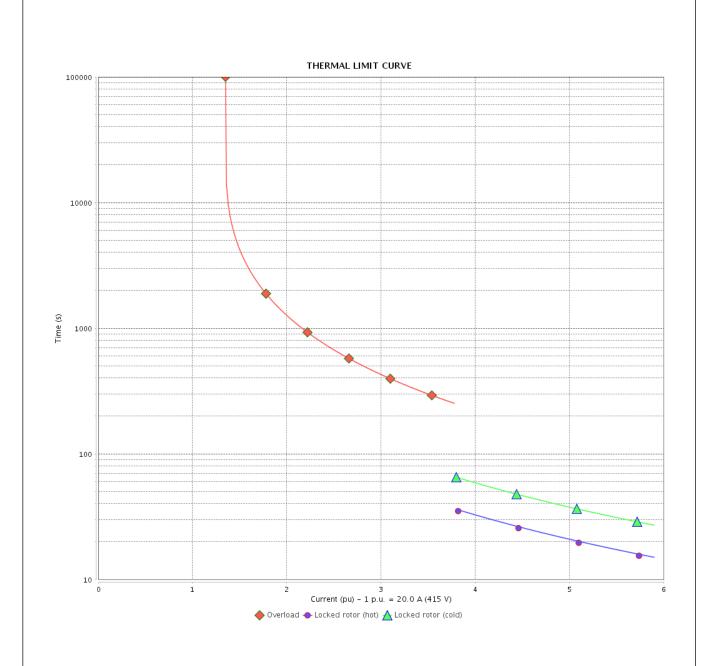


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Product line		NEMA Premium Efficiency	Three-	Product code :	12603920	
	Pl	hase	,	Catalog # :	01518ET3E2	54JM-W22
Performance	. 4	15 V 50 Hz 4P IE2				
Rated current).0 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC	: 5.	9	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		3.8 ft.lb 10 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e : 24	40 %	Temperatu		: 80 K	
Rated speed	: 14	465 rpm	Design		: B	
Heating constant						
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Date

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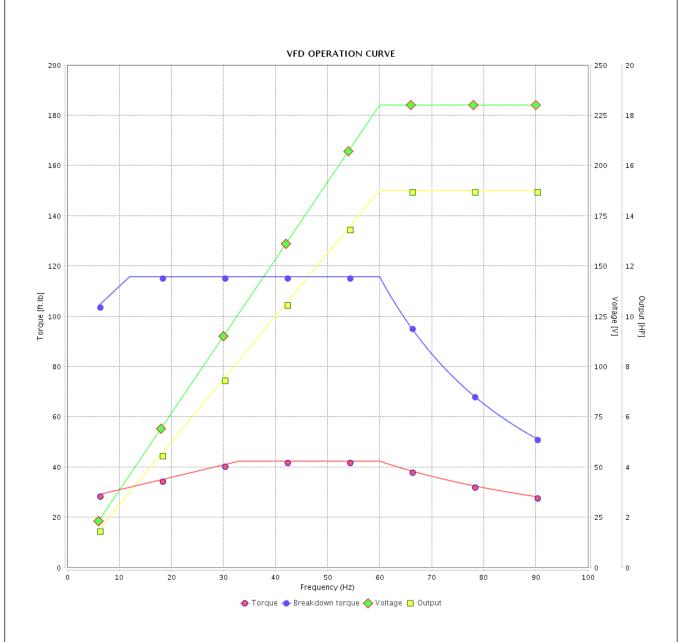
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12603920

Catalog #: 01518ET3E254JM-W22

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Performance : 230/460 V 60 Hz 4P : 36.0/18.0 A Rated current Moment of inertia (J) : 2.62 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 44.5 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



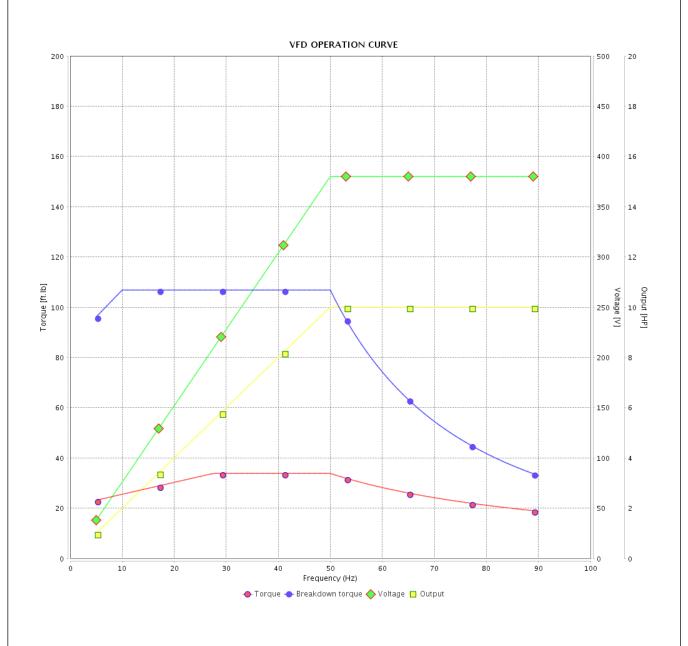
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 35.6 ft.lb : 250 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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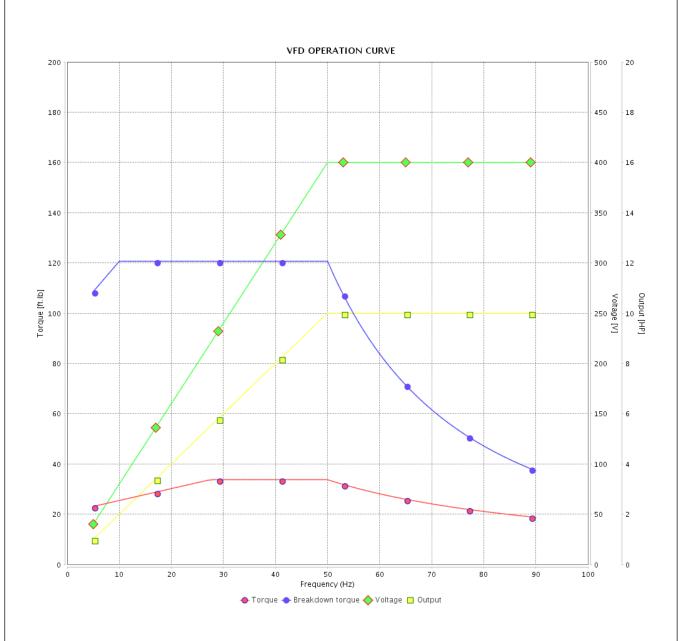
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12603920

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Performance	: 400 V 50 Hz 4P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.8 A : 7.8 : 35.5 ft.lb : 280 % : 340 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B				
Rev.	Changes Summary		Performed	Checked	Date			
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Date

Three Phase Induction Motor - Squirrel Cage

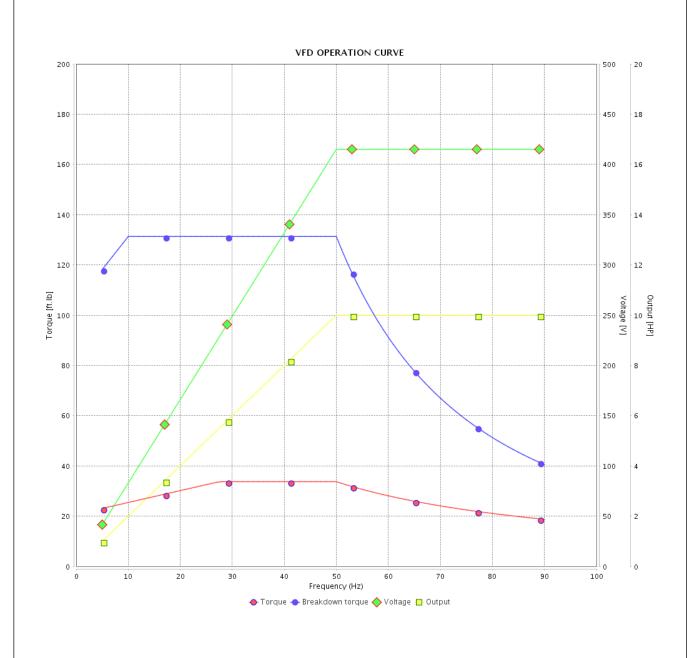


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22



Performance	: 4	: 415 V 50 Hz 4P IE3						
Rated current		4.5 A	Moment o	Moment of inertia (J)				
LRC	: 8	.3	Duty cycle	:	: Cont.(S1)			
Rated torque	: 3	5.5 ft.lb	Insulation	class	: F			
Locked rotor torque		10 %	Service fa	Service factor				
Breakdown torque	e : 3	70 %	Temperati	Temperature rise				
Rated speed	: 1	1480 rpm Desig			: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

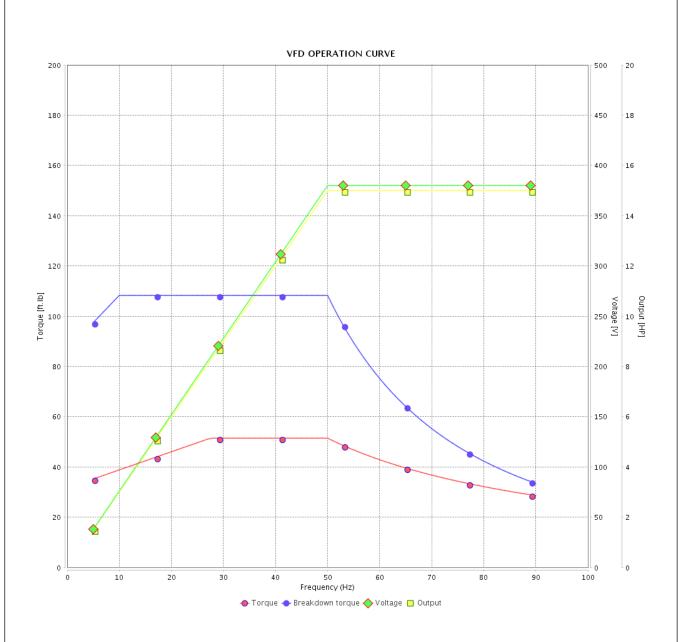
Product code: 12603920

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Revision



Performance : 380 V 50 Hz 4P IE2 Rated current : 21.5 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



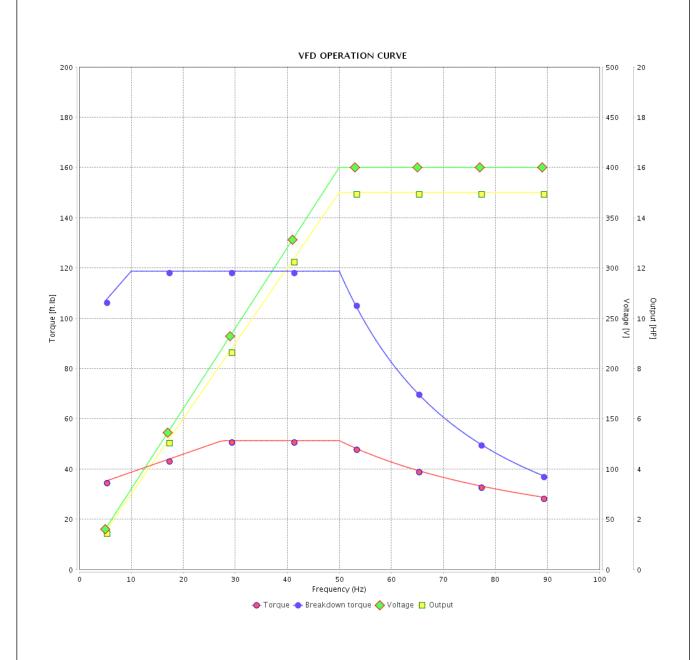
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Product line : NEMA Premium Efficiency Three- Product code : 12603920

Phase

Catalog #: 01518ET3E254JM-W22

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.5 A : 5.4 : 54.0 ft.lb : 200 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

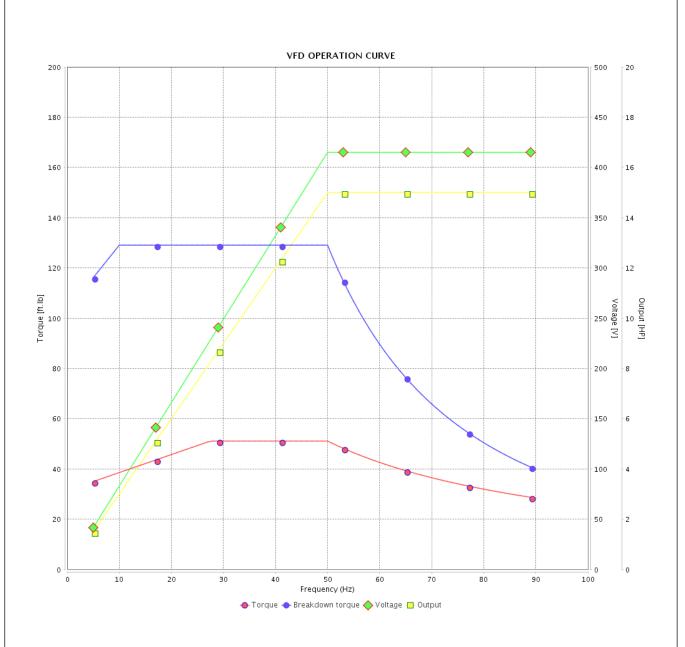
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Revision



Performance : 415 V 50 Hz 4P IE2 Rated current : 20.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : 53.8 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

