DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12375663

01536ET3E254T-W22 Catalog #:

Frame : 254/6T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

: -20°C to +40°C Starting method Ambient temperature : Direct On Line : 1000 m.a.s.l. : 277 lb

Approx. weight³ Altitude Protection degree : IP55 Moment of inertia (J) : 1.26 sq.ft.lb

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Design		: B						
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]		34.4/17.2	14.5	14.0	13.7	20.7	19.6	19.1
L. R. Amperes [A]		230/115	98.6	105	108	101	108	113
LRC [A]		6.7x(Code	6.8x(Code H)	7.5x(Code J)	7.9x(Code J)	4.9x(Code D)	5.5x(Code E)	5.9x(Code F)
		G)						
No load current [A		10.6/5.30	5.10	5.40	5.70	5.10	5.40	5.70
Rated speed [RPN	1]	3530	2945	2950	2955	2910	2920	2925
Slip [%]		1.94	1.83	1.67	1.50	3.00	2.67	2.50
Rated torque [ft.lb]		22.3	17.8	17.8	17.8	27.1	27.0	26.9
Locked rotor torqu	e [%]	220	200	229	250	170	190	210
Breakdown torque	[%]	270	310	350	380	200	229	240
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		41s (cold)	50s (cold)	50s (cold)	46s (cold)	28s (cold)	28s (cold)	28s (cold)
		23s (hot)	28s (hot)	28s (hot)	26s (hot)	16s (hot)	16s (hot)	16s (hot)
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%							
Efficiency (%)	50%	89.5	90.3	90.1	89.9	89.5	90.2	90.2
Lincichoy (70)	75%	91.0	90.5	90.7	90.8	90.2	90.2	91.0
	100%	91.0	90.5	90.7	90.8	89.5	90.2	90.2
	25%							
Power Factor	50%	0.77	0.73	0.69	0.67	0.83	0.81	0.79
1 OWCI I actor	75%	0.85	0.83	0.80	0.78	0.88	0.87	0.86
	100%	0.88	0.87	0.85	0.84	0.90	0.90	0.89

Drive end Non drive end Foundation loads

Bearing type 6309 C3 6209 C3 Max. traction : 171 lb Sealing V'Ring V'Ring : 448 lb Max. compression Lubrication interval 19000 h 20000 h

Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 38.0A SF 1.15 SFA 43.7A

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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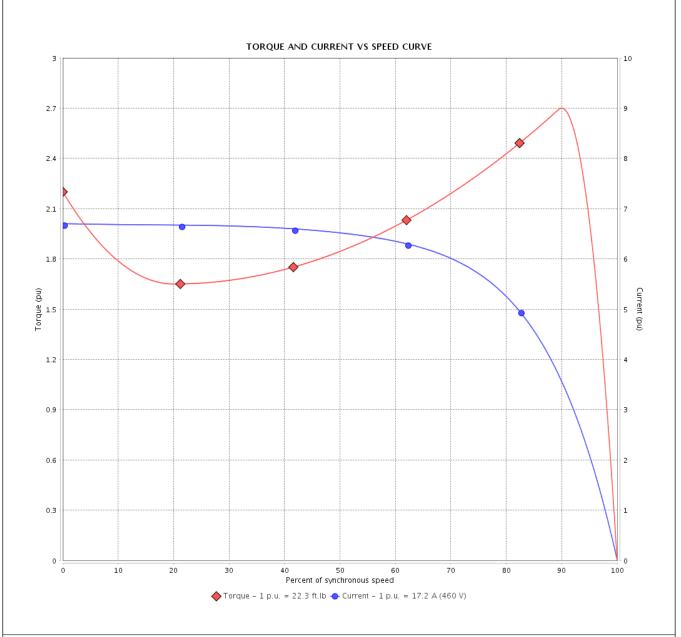
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12375663

Catalog #: 01536ET3E254T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 34.4/17.2 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 41s (cold) 23s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12375663 Catalog #: 01536ET3E254T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 14.5 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 14.5 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F : 200 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time : 50s (cold) 28s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage

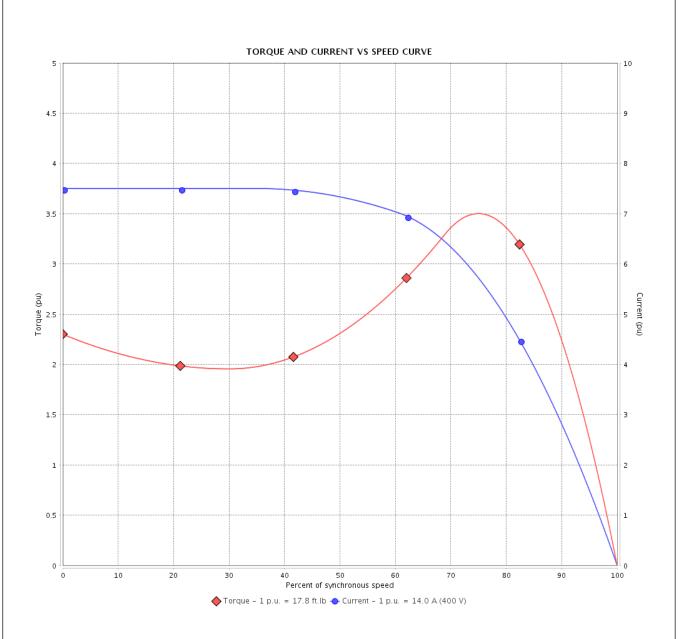


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01536ET3E254T-W22

12375663



Performance : 400 V 50 Hz 2P IE3 Rated current : 14.0 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12375663 Catalog #: 01536ET3E254T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 17.8 ft.lb ◆ Current - 1 p.u. = 13.7 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 13.7 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 17.8 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary**

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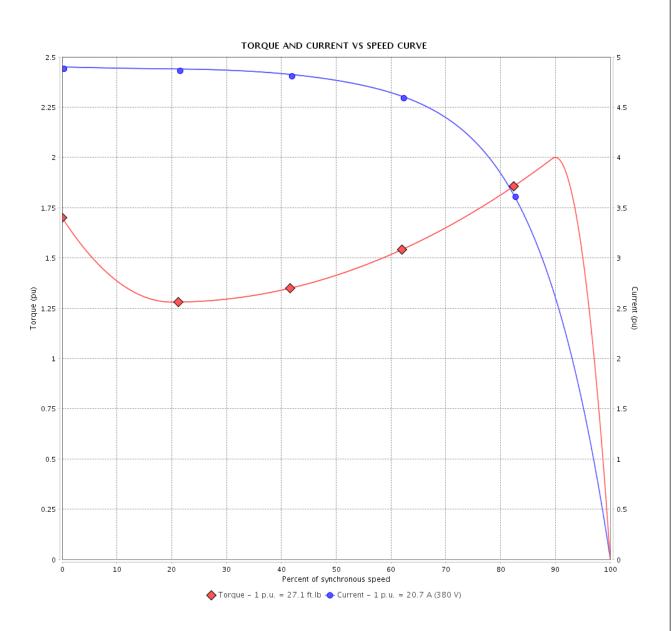
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12375663

Catalog #: 01536ET3E254T-W22



Performance	: 380 V 50 Hz 2P IE2			
Rated current	: 20.7 A	Moment of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 4.9	Duty cycle	: Cont.(S1)	
Rated torque	: 27.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

Locked rotor time : 28s (cold) 16s (hot)

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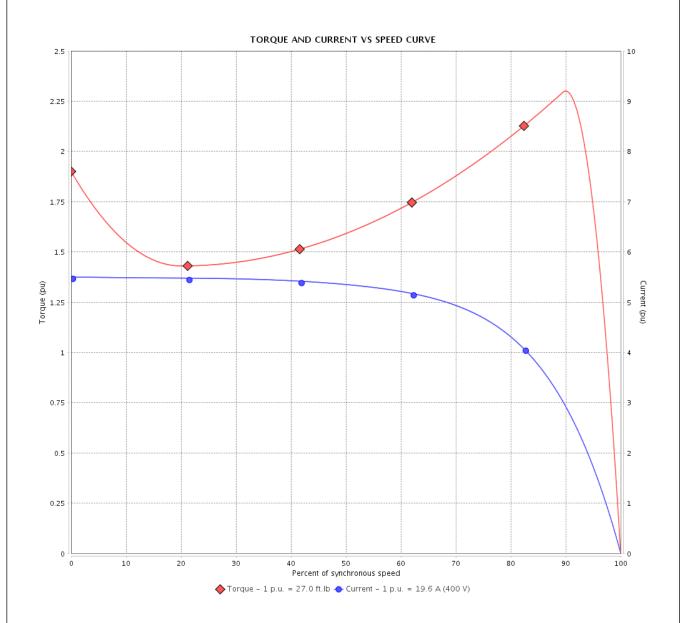
Three Phase Induction Motor - Squirrel Cage



01536ET3E254T-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 12375663

Catalog #:



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 19.6 A	Moment of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 27.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 2920 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

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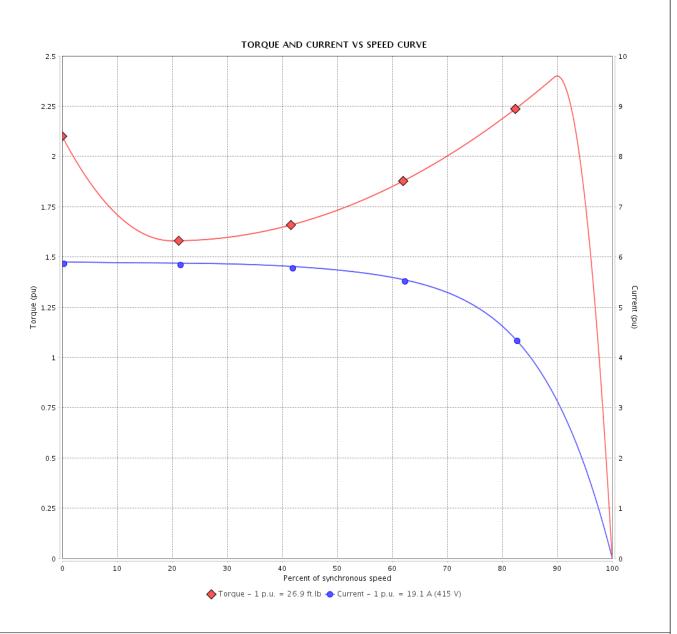


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12375663

Phase

Catalog #: 01536ET3E254T-W22



Performance	: 415 V 50 Hz 2P IE2		
Rated current LRC	: 19.1 A : 5.9	Moment of inertia (J) Duty cycle	: 1.26 sq.ft.lb : Cont.(S1)
Rated torque	: 26.9 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque Rated speed	: 240 % : 2925 rpm	Temperature rise Design	: 80 K : B
Looked reter time	: 2920 fpfff	Design	. 5

Locked rotor time : 28s (cold) 16s (hot)

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Date

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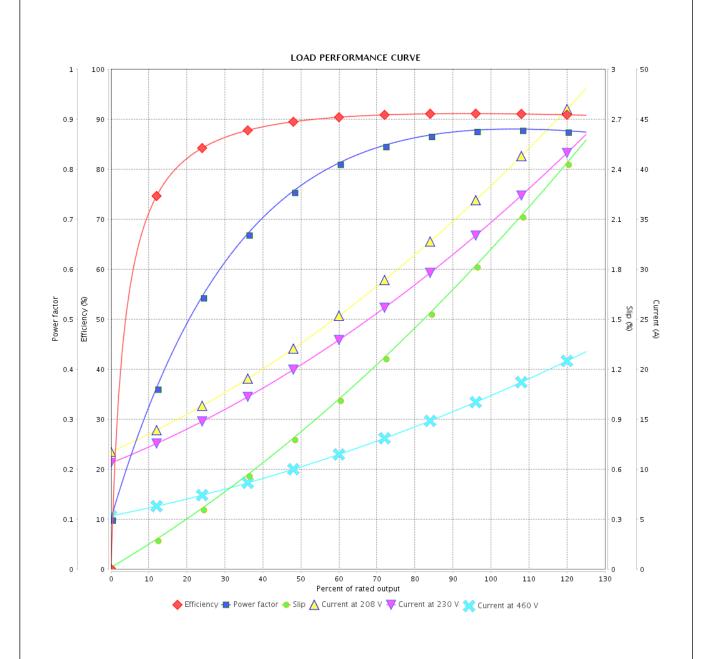
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ET3E254T-W22

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.4/17.2 A : 6.7 : 22.3 ft.lb : 220 % : 270 % : 3530 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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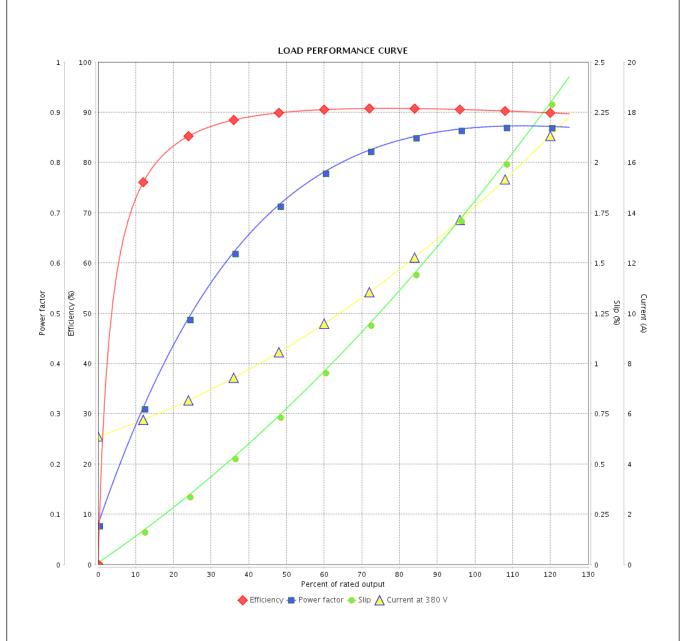
Customer

Product line : NEMA Premium Efficiency Three-Product code:

01536ET3E254T-W22 Catalog #:

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Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 14.5 A	Moment of	of inertia (J)	: 1.26 sq.ft.lb	
LRC	: 6.8	Duty cycle	е	: Cont.(S1)	
Rated torque	: 17.8 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa	actor	: 1.25	
Breakdown torque	: 310 %	Temperat	ure rise	: 80 K	
Rated speed	: 2945 rpm	Design		: B	
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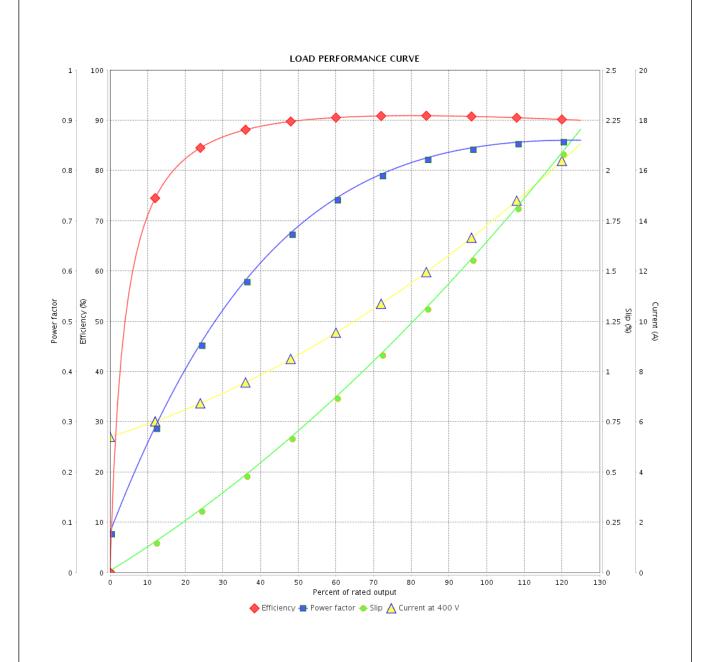
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Product line : NEMA Premium Efficiency Three- Product code : 12375663

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 7.5 : 17.8 ft.lb : 229 % : 350 % : 2950 rpm	Moment of inertia (J) : 1.26 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		: F : 1.25 : 80 K	
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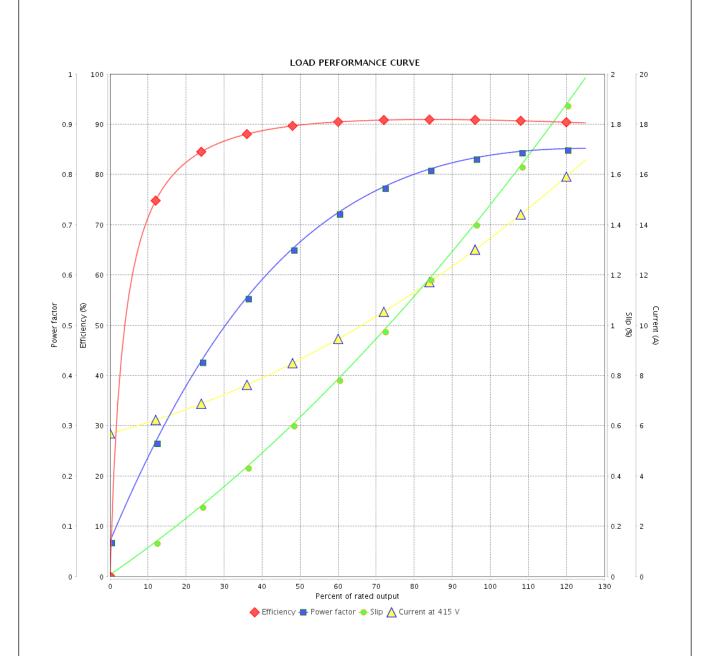
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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.9 : 17.8 ft.lb : 250 % : 380 % : 2955 rpm	Moment of inertia (J) : 1.26 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		: Cont.(\$1) : F : 1.25 : 80 K	
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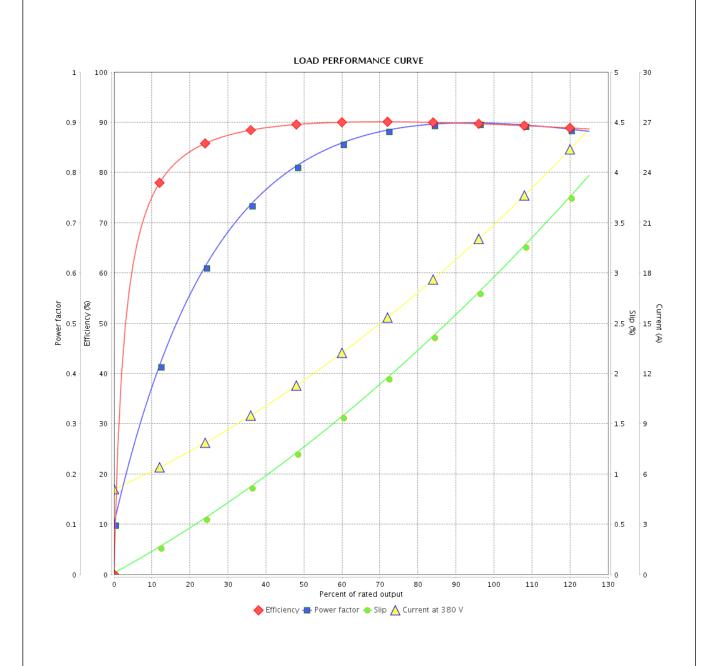
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Product line : NEMA Premium Efficiency Three- Product code : 12375663

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Performance	rmance : 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.7 A : 4.9 : 27.1 ft.lb : 170 % : 200 % : 2910 rpm	Duty cycle : Cor Insulation class : F Service factor : 1.00		: 1.00 : 80 K	
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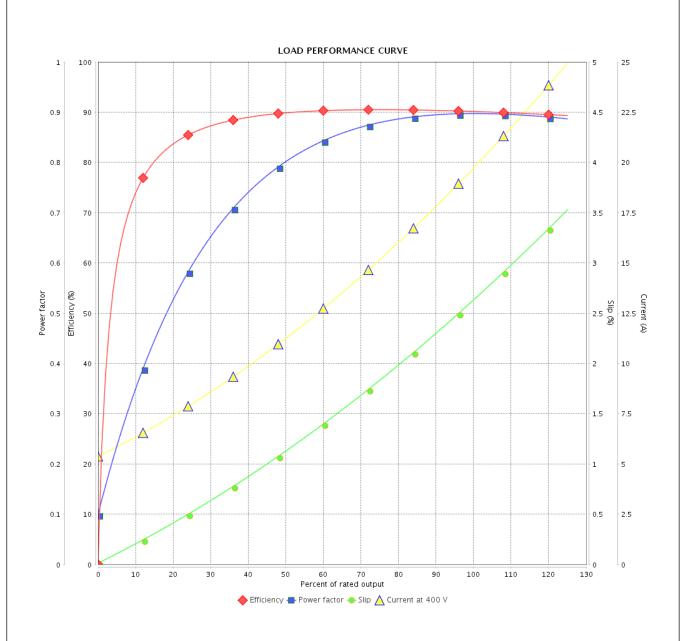
Customer :

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

Phase

Product code: 12375663

Catalog #: 01536ET3E254T-W22



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.6 A : 5.5 : 27.0 ft.lb : 190 % : 229 % : 2920 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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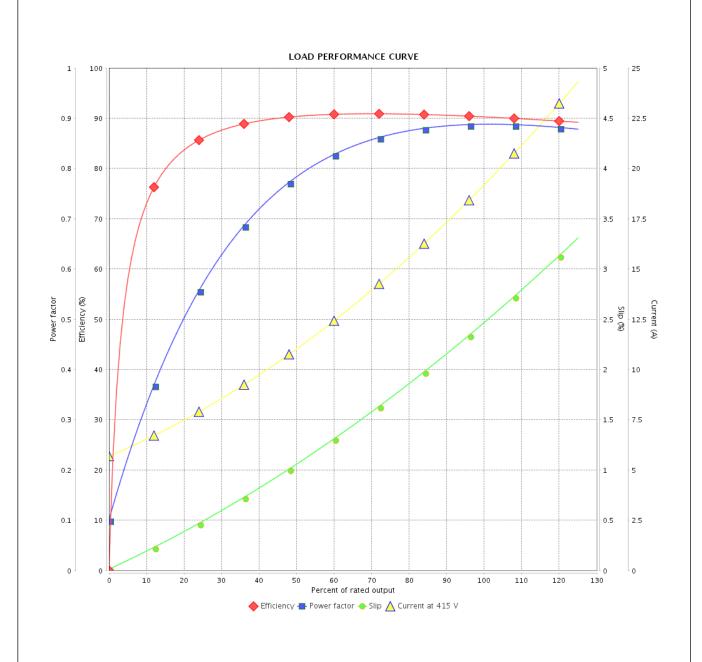
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Performance	rformance : 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.1 A : 5.9 : 26.9 ft.lb : 210 % : 240 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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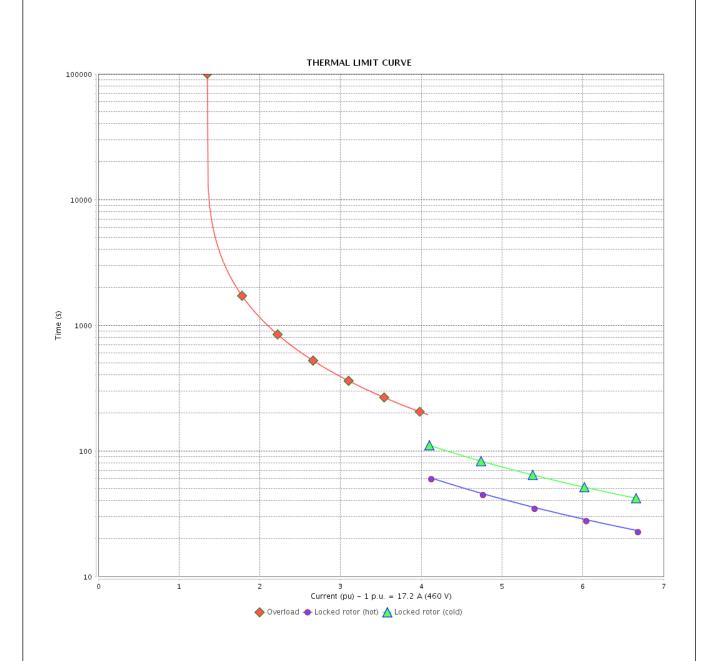


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Product line	: NEMA Premium Efficiency Phase		Product code :	12375663 01536ET3E28	54T-W22
Darfarmana	. 220/400 V 00 H= 2D				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 2P : 34.4/17.2 A : 6.7 : 22.3 ft.lb : 220 % : 270 % : 3530 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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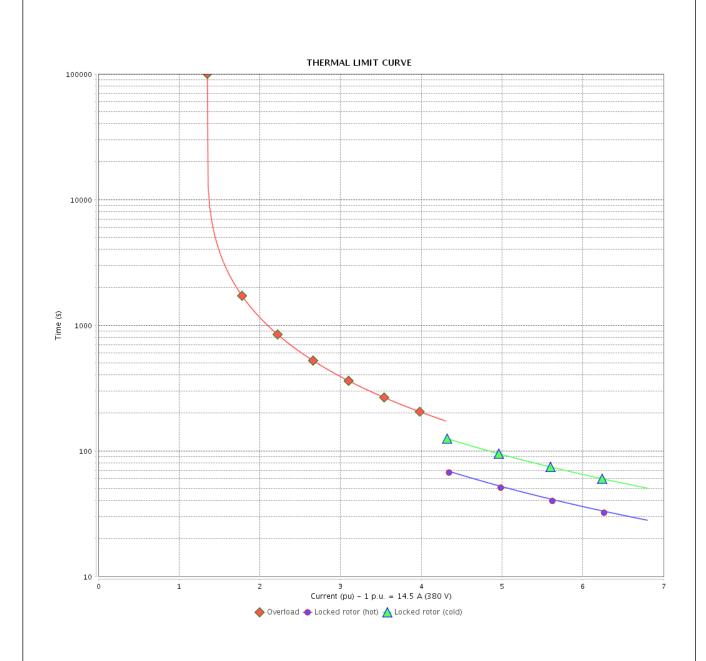


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12375663 01536ET3E2	54T-W22
					0100021022	311 4422
Performance		: 380 V 50 Hz 2P IE3	T			
Rated current LRC		: 14.5 A : 6.8	Moment of Duty cycle	of inertia (J) e	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 17.8 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 310 %	Temperat		: 80 K	
Rated speed		: 2945 rpm	Design		: B	
Heating constan						
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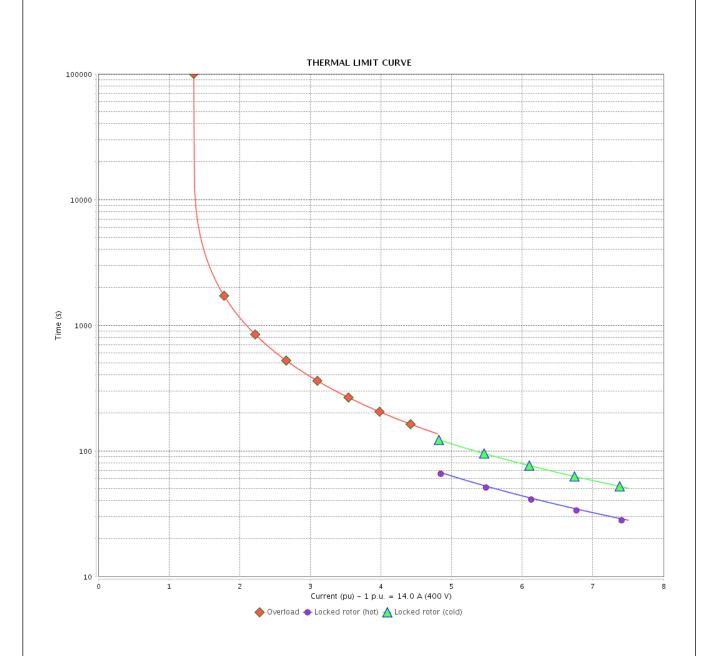


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12375663 01536ET3E25	54T-W22
					01000210220	771 4422
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 14.0 A : 7.5	Moment of Duty cycle	of inertia (J)	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque		: 17.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 350 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2950 m	Design	uic lise	: B	
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Cooling constant	t			, ,		
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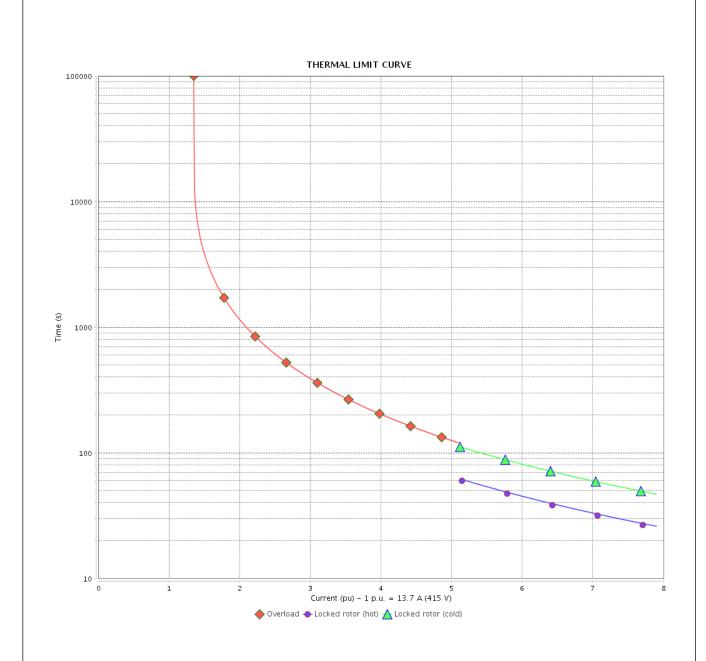


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12375663	
		Tilasc		Catalog # :	01536ET3E25	54T-W22
Performance	;	: 415 V 50 Hz 2P IE3				
Rated current		: 13.7 A		of inertia (J)	: 1.26 sq.ft.lb	
LRC Rated torque		: 7.9 : 17.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que :	: 250 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed		: 380 % : 2955 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		1	- 3			
Cooling constant						
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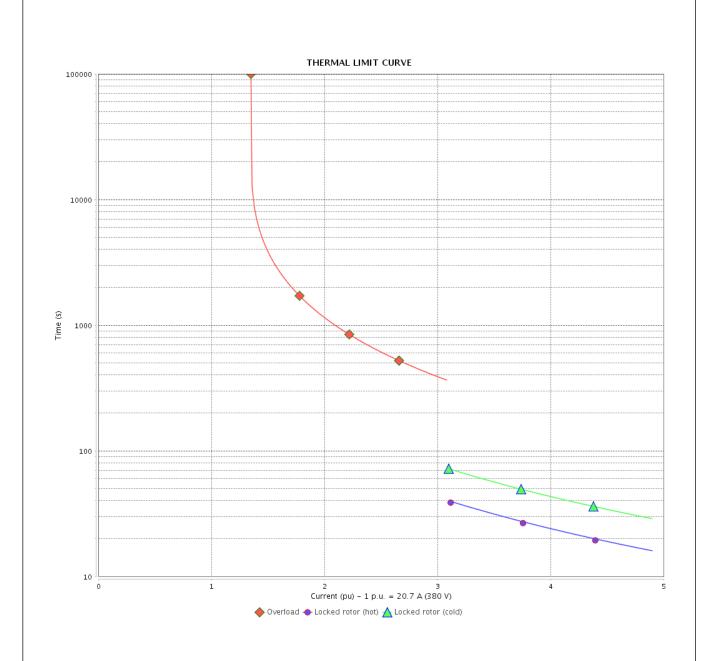


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12375663 01536ET3E25	54T-W22
				- Catalog # :	01000210220	711 4422
Performance		: 380 V 50 Hz 2P IE2	T			
Rated current LRC		: 20.7 A : 4.9	Moment of Duty cycle	of inertia (J) e	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 27.1 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 200 %	Temperat		: 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan						
Cooling constant	τ	Changes Summary		Performed	Checked	Date
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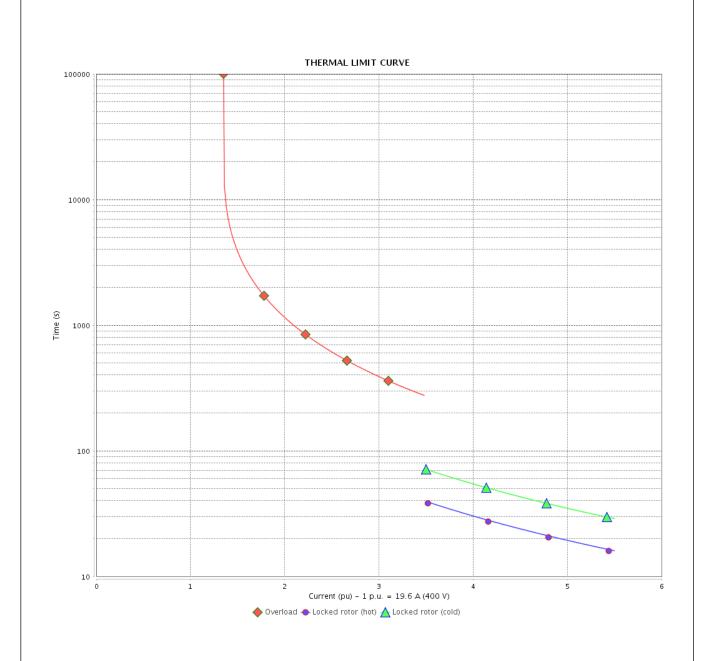


Customer	:				
Product line	: NEMA Premium Ef Phase		Product code :	12375663 01536ET3E2	54T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 2P IE2 : 19.6 A : 5.5 : 27.0 ft.lb : 190 % : 229 % : 2920 rpm		class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summa	ry	Performed	Checked	Date
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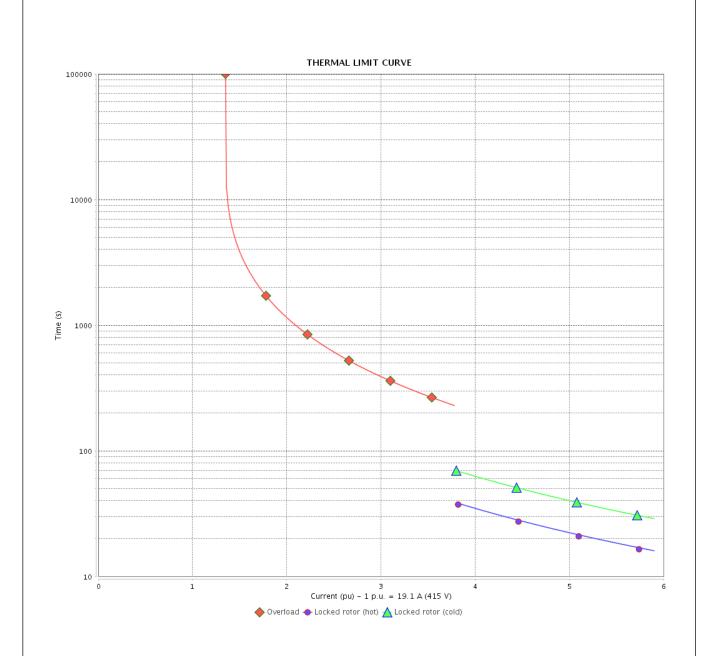


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12375663 01536ET3E25	54T-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 19.1 A : 5.9	Moment of Duty cycle	of inertia (J)	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque		: 26.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 210 % : 240 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 2925 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

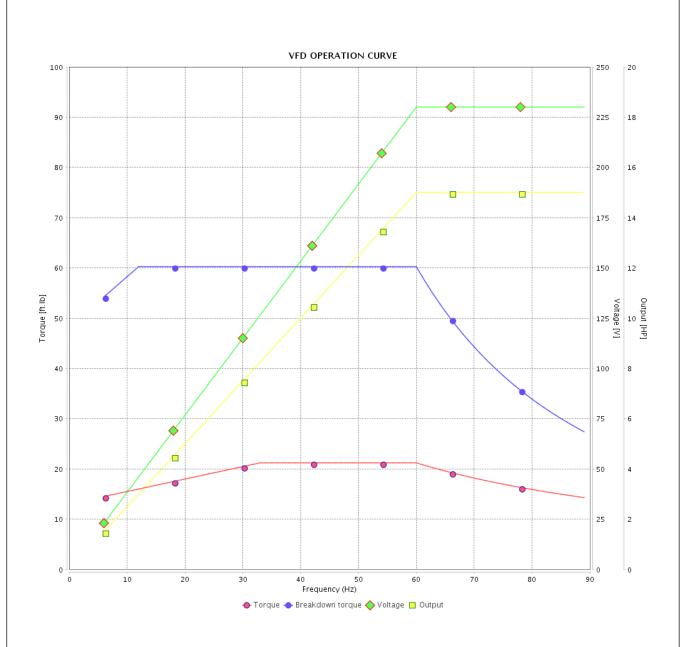
Product code: 12375663

Catalog #: 01536ET3E254T-W22

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Performance : 230/460 V 60 Hz 2P Rated current : 34.4/17.2 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



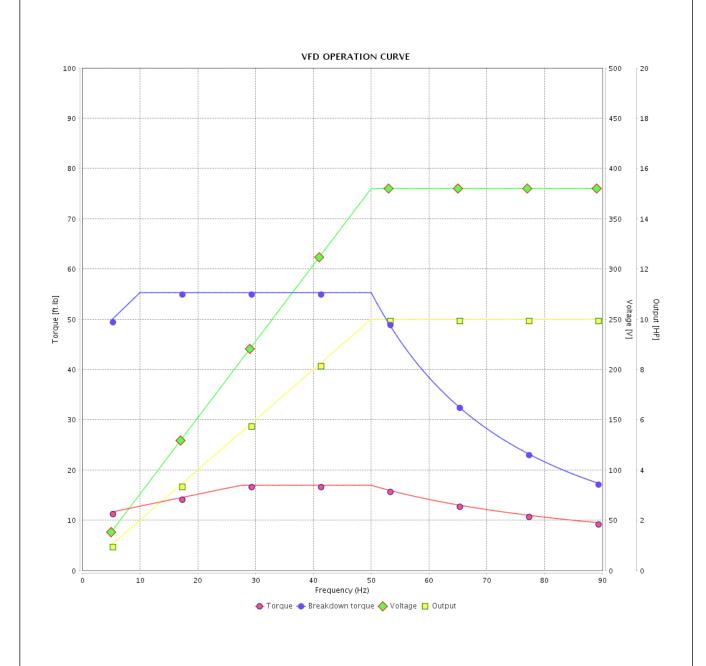
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12375663



Performance	:	: 380 V 50 Hz 2P IE3				
Rated current : 14.5 A Moment		Moment o	f inertia (J)	: 1.26 sq.ft.lb		
LRC	:	: 6.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	: 17.8 ft.lb	Insulation	class	:F	
Locked rotor torque)	: 200 %	Service fa	ctor	: 1.25	
Breakdown torque	kdown torque : 310 % Temperature rise		ure rise	: 80 K		
Rated speed	:	2945 rpm	Design		: B	
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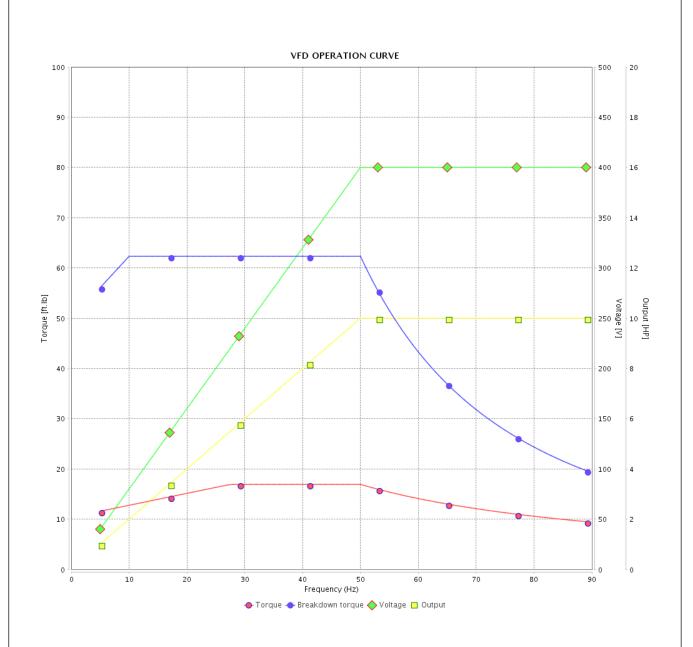
Phase

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Performance	: 4	400 V 50 Hz 2P IE3				
Rated current : 14.0 A LRC : 7.5 Rated torque : 17.8 ft.lb Locked rotor torque : 229 % Breakdown torque : 350 % Rated speed : 2950 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



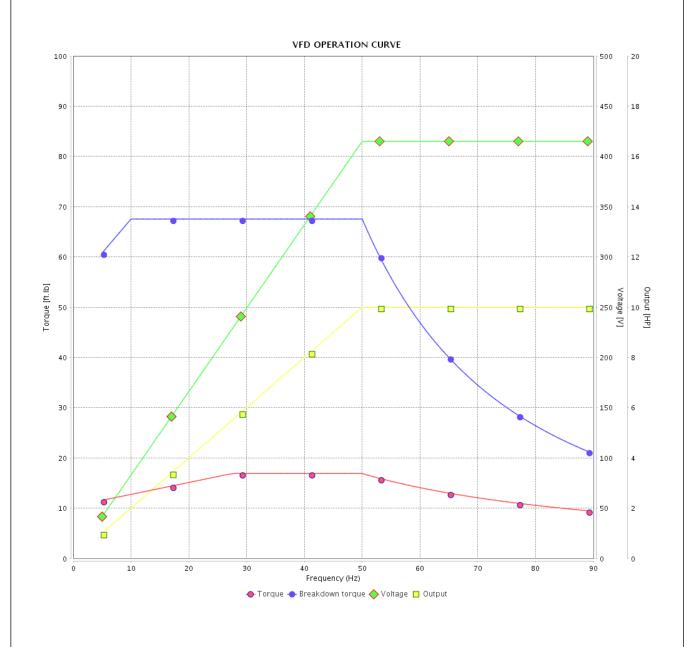
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12375663

Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.9 : 17.8 ft.lb : 250 % : 380 % : 2955 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product

Phase

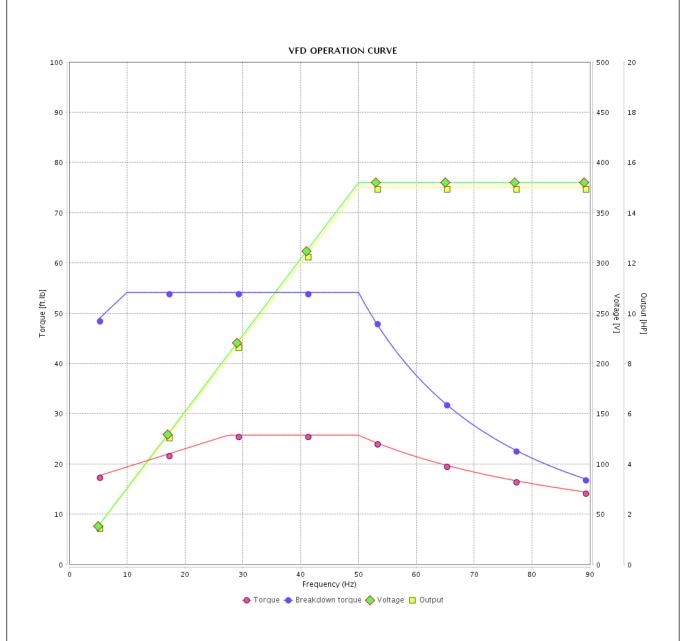
Product code: 12375663

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Revision



Performance	: 380 V 50 Hz 2P IE2	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 20.7 A : 4.9 : 27.1 ft.lb : 170 % : 200 % : 2910 rpm	Moment of Duty cycl Insulation Service fa Temperat Design	class actor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



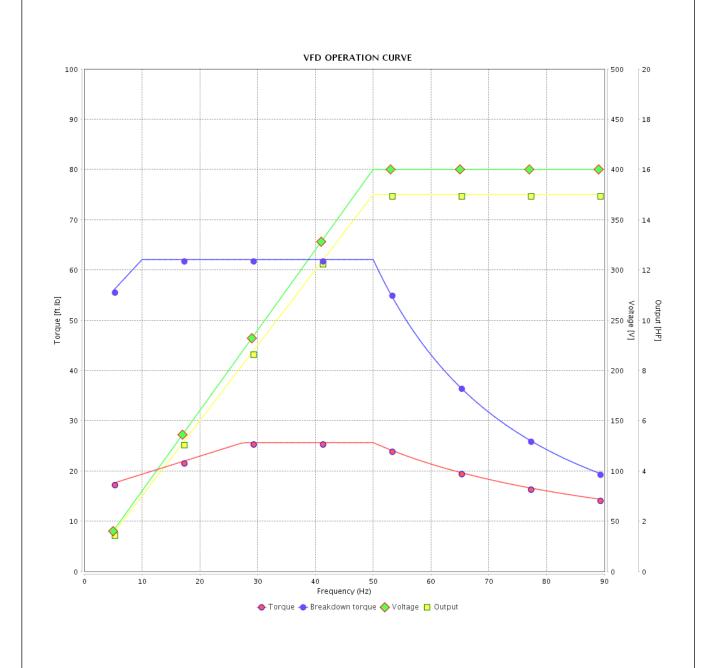
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12375663

Catalog #: 01536ET3E254T-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 19.6 A	
LRC : 5.5 Duty cycle : Cont.(S1) Rated torque : 27.0 ft.lb Insulation class : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K	
Rated torque : 27.0 ft.lb Insulation class : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K	
Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K	
Breakdown torque : 229 % Temperature rise : 80 K	
Rated speed : 2920 rpm Design : B	
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Three Phase Induction Motor - Squirrel Cage



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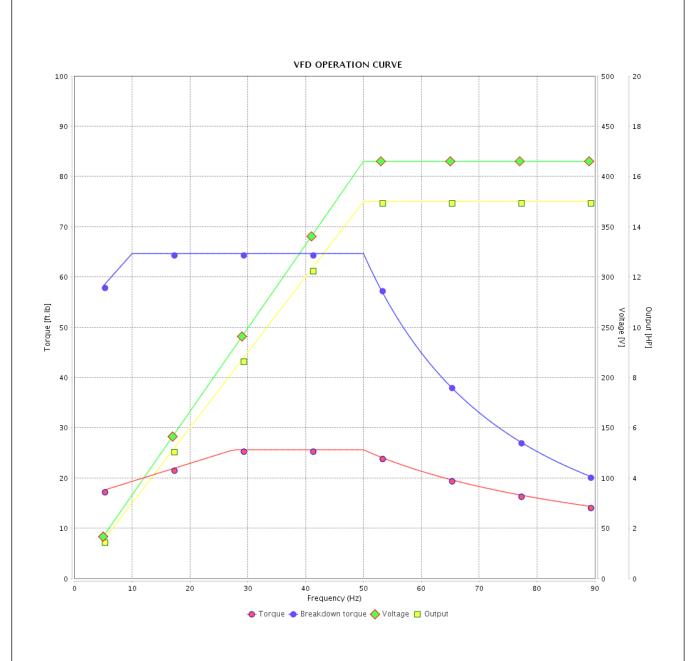
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance : 415 V 50 Hz 2P IE2 : 19.1 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : 26.9 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

