### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12707693

Catalog #: 01536ET3E254T-S

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

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup>

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

Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 179 lb
Protection degree	е	: IP55	Moment of inertia (J)	: 0.8718 sq.ft.lb
Design		: B		·
Output [HP]		15	12.5	12.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		34.8/17.4	35.4/17.7	32.3/17.1
L. R. Amperes [A]		237/118	244/122	245/130
LRC [A]		6.8x(Code G)	6.9x(Code H)	7.6x(Code J)
No load current [A]	]	13.0/6.50	13.6/6.80	13.9/7.39
Rated speed [RPN	<b>/</b> 1]	3525	2920	2930
Slip [%]		2.08	2.67	2.33
Rated torque [ft.lb]		22.3	22.5	22.4
Locked rotor torqu		200	190	210
Breakdown torque	[%]	300	290	330
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
	25%	89.2	90.7	90.1
Efficiency (%)	50%	89.5	90.2	90.0
Efficiency (70)	75%	91.0	90.6	90.7
	100%	91.0	89.8	90.3
	25%	0.47	0.47	0.43
Power Factor	50%	0.73	0.74	0.70
FOWEI FACIOI	75%	0.83	0.84	0.81
	100%	0.87	0.88	0.86

Non drive end Foundation loads **Drive** end

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 265 lb Sealing V'Ring Without Max. compression : 444 lb

Bearing Seal

15797 h 20000 h Lubrication interval Lubricant amount 13 g 8 g

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 38.5A SF 1.00 SFA 38.5A

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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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



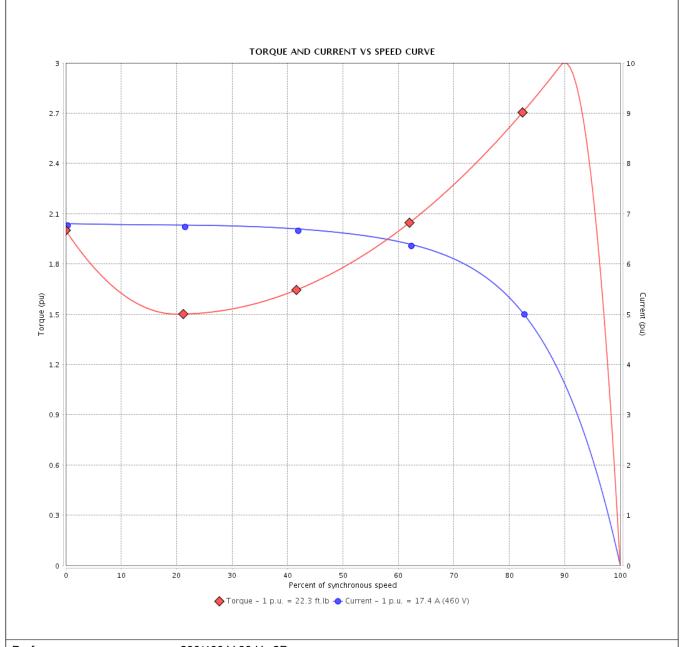
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12707693

Catalog #: 01536ET3E254T-S



Performance : 230/460 V 60 Hz 2P Rated current : 34.8/17.4 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 22.3 ft.lb Locked rotor torque : 200 % Service factor : 1.15

Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

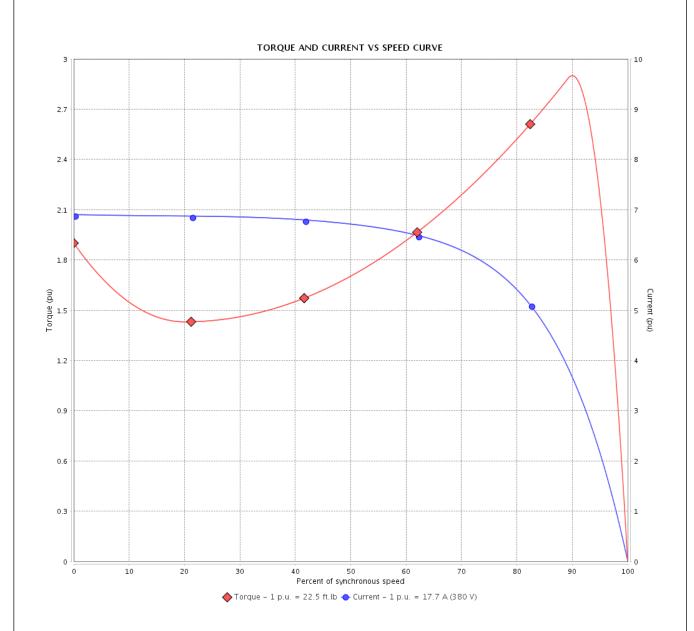
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12707693 Catalog #: 01536ET3E254T-S



Performance : 190/380 V 50 Hz 2P Rated current : 35.4/17.7 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 22.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 105 K Rated speed : 2920 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



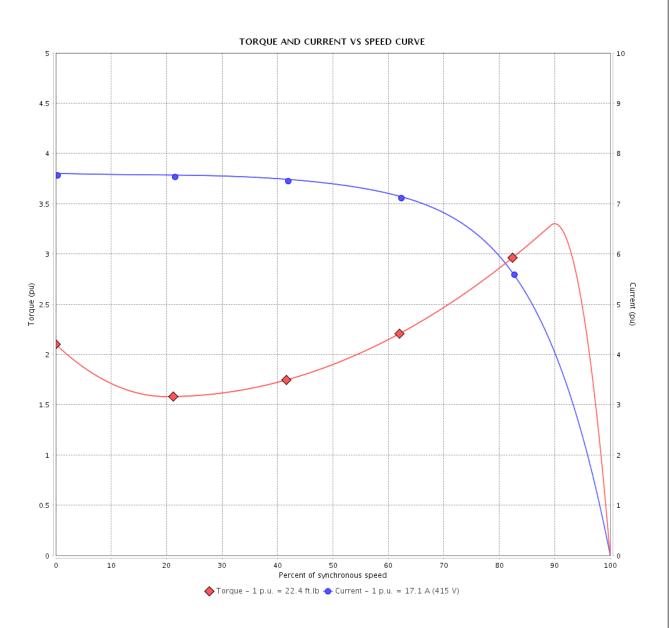
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12707693

Catalog #: 01536ET3E254T-S



Performance : 220/415 V 50 Hz 2P Rated current : 32.3/17.1 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



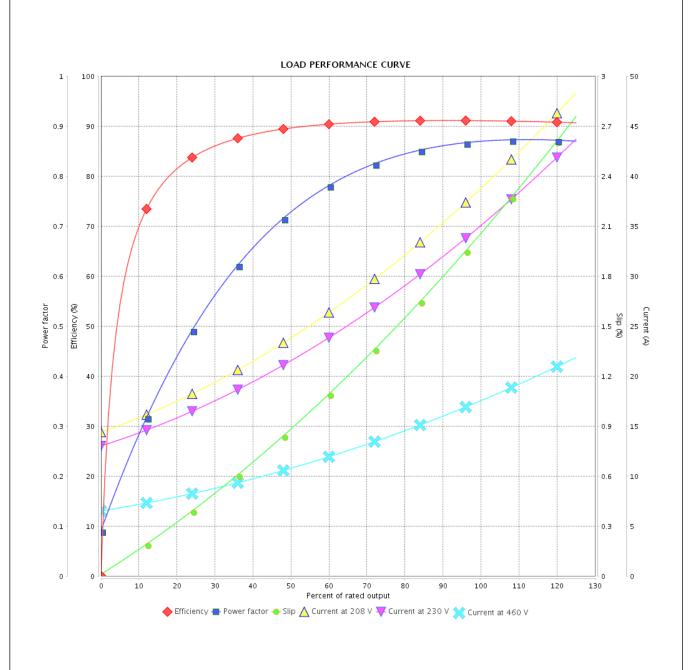
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ET3E254T-S

12707693



Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 2 : 2 : 3	Duty cycle : C  3 ft.lb Insulation class : F  Service factor : 1  Temperature rise : 8		: 0.8718 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb			
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

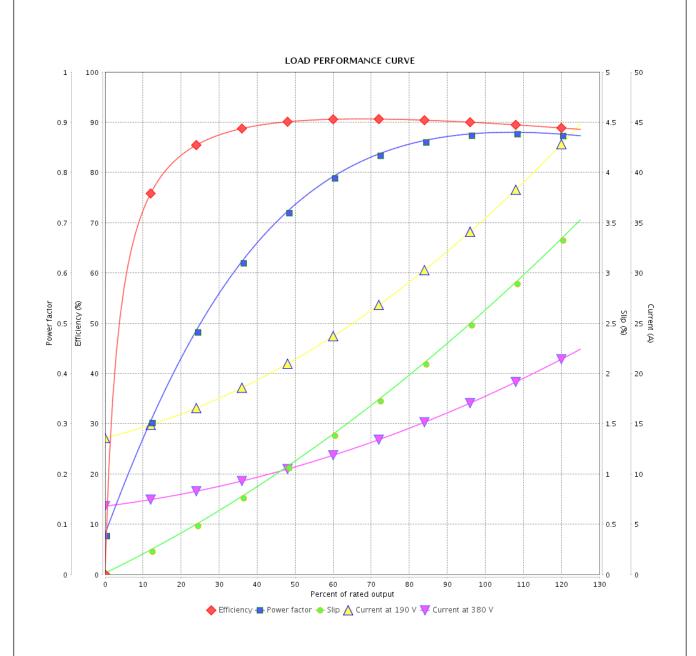
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01536ET3E254T-S

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Performance	: 190/380 V 50 Hz 2P				
Rated current	: 35.4/17.7 A	Moment of	inertia (J)	: 0.8718 sq.ft.	lb
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 22.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fac	ctor	: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 105 K	
Rated speed	: 2920 rpm	Design		: B	
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## LOAD PERFORMANCE CURVE

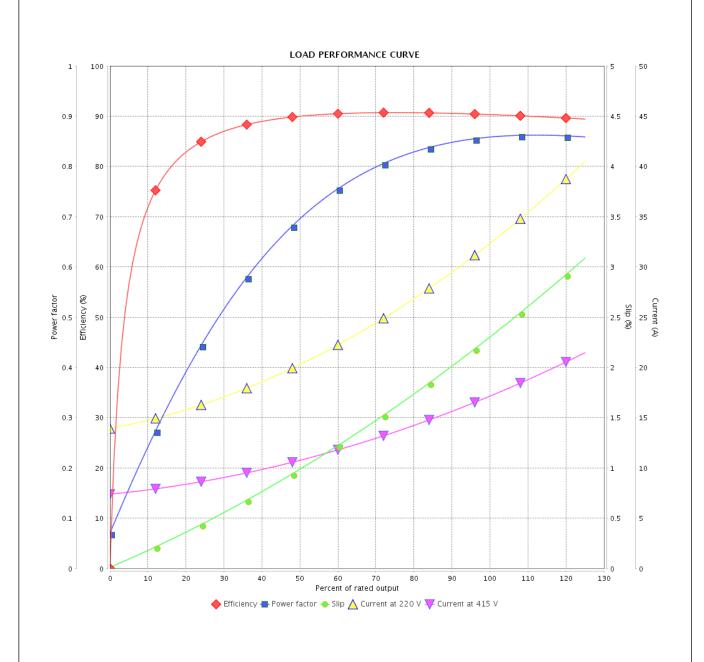
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12707693

Catalog #: 01536ET3E254T-S



Performance	nance : 220/415 V 50 Hz 2P					
Rated current	: 3	32.3/17.1 A	Moment o	f inertia (J)	: 0.8718 sq.ft	:.lb
LRC	: 7	7.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	22.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :3	330 %	Temperature rise Design		: 105 K	
Rated speed	: 2	2930 rpm			: B	
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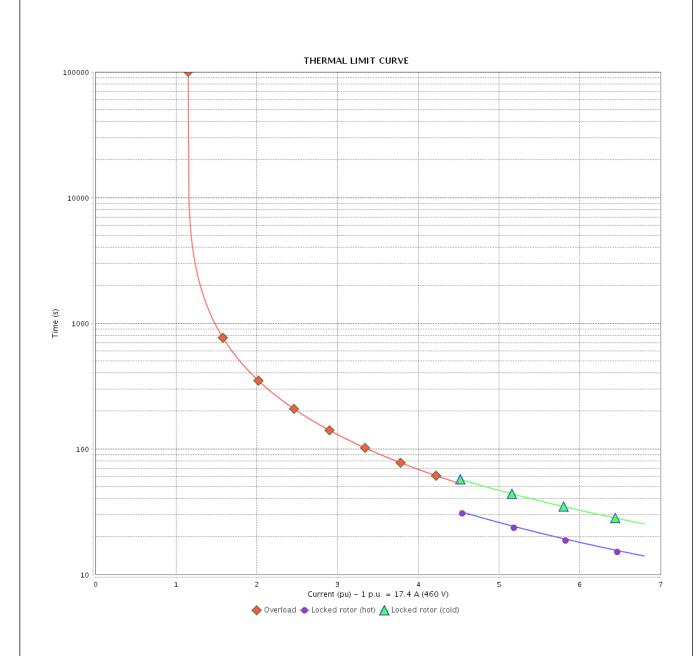


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	12707693 01536ET3E2	254T-S
Performance	: 230/460 V 60 Hz 2P				
Rated current LRC	: 34.8/17.4 A : 6.8	Duty cycle	of inertia (J) e	: 0.8718 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque	: 22.3 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Breakdown torque Rated speed	: 300 % : 3525 rpm	Temperati Design		: 80 K : B	
Heating constant		-			
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## Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

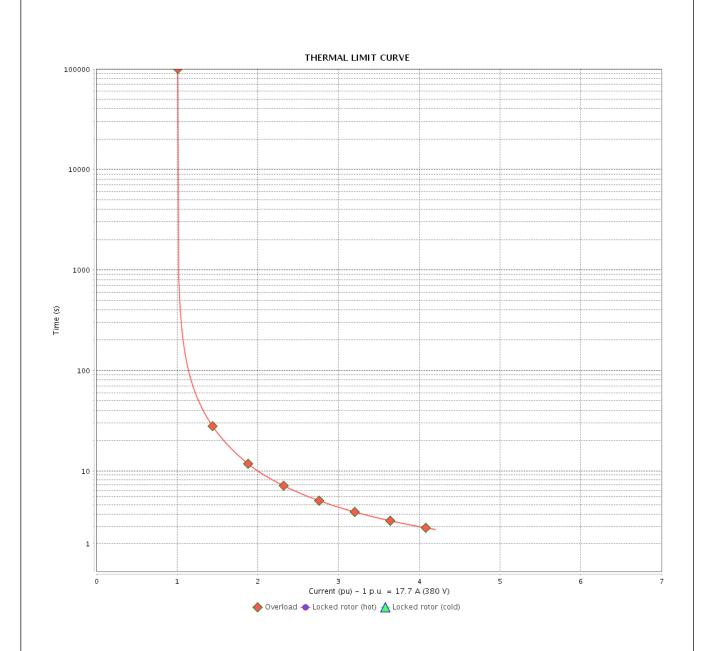


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	12707693 01536ET3E2	54T-S
Performance	: 190/380 V 50 Hz 2P				
Rated current	: 35.4/17.7 A	Moment o	f inertia (J)	: 0.8718 sq.ft.l	b
LRC Rated torque	: 6.9 : 22.5 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 290 % : 2920 rpm	Temperatu Design	ure rise	: 105 K : B	
	. 2020 19111	Design		. J	
Heating constant Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

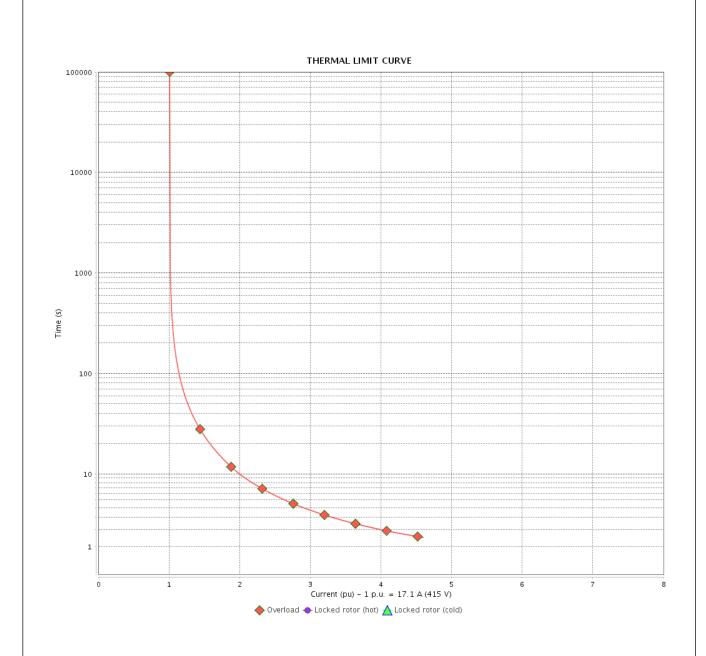


Customer	:				
	-				
Product line	: NEMA Premium Efficiency Three- Phase		Product code :	12707693	
	riiase		Catalog # :	01536ET3E2	54T-S
Dorformanco	· 220/415 \/ 50 Hz 2D				
Performance Rated current	: 220/415 V 50 Hz 2P : 32.3/17.1 A	Moment o	f inertia (J)	: 0.8718 sq.ft.l	b
LRC Rated torque	: 7.6 : 22.4 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service fa		: 1.00	
Breakdown torque	: 330 %	Temperatu		: 105 K	
Rated speed	: 2930 rpm	Design		: B	
Heating constant					
Cooling constant	Changes Courses		Dorfores	Oh s also d	Data
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



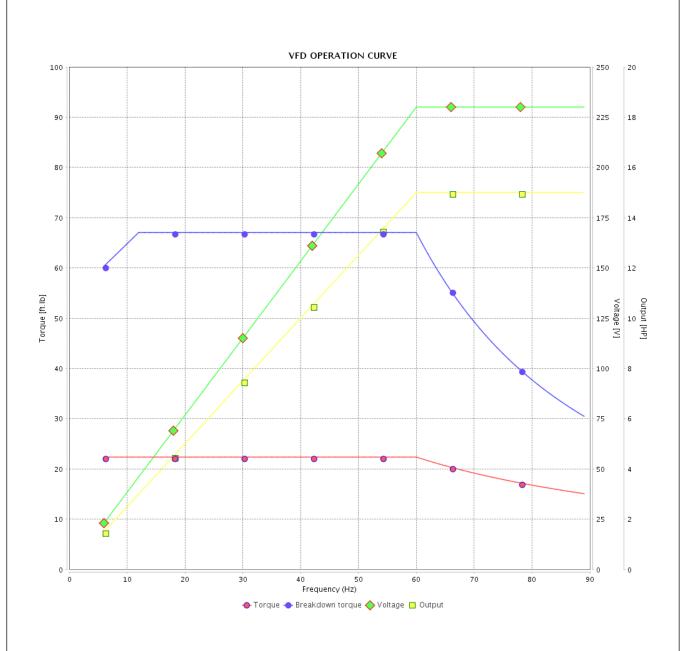
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12707693

Catalog #: 01536ET3E254T-S



Performance	: 230/460 V 60 Hz 2P				
Rated current : 34.8/17.4 A LRC : 6.8 Rated torque : 22.3 ft.lb Locked rotor torque : 200 % Breakdown torque : 300 % Rated speed : 3525 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.8718 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

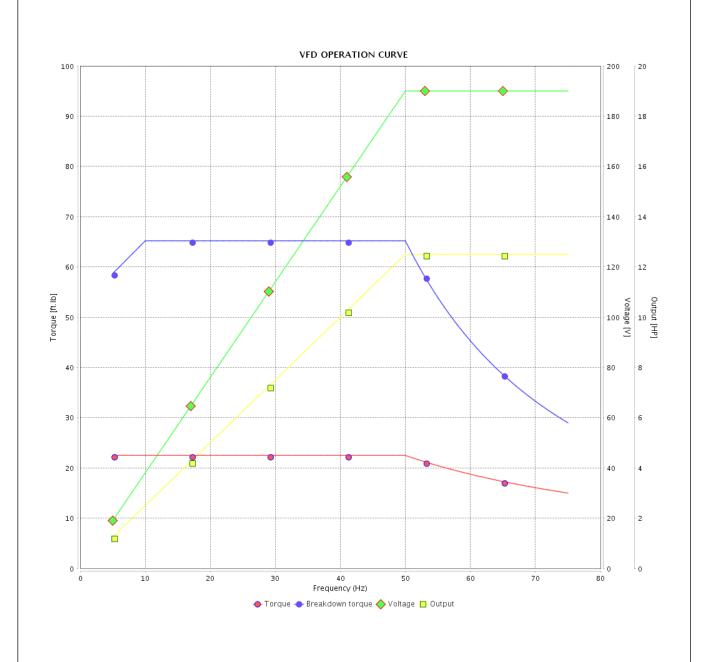


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12707693

Phase

Catalog #: 01536ET3E254T-S



Performance	:	: 190/380 V 50 Hz 2P				
Rated current	: 35.4/17.7 A Moment		Moment o	f inertia (J)	: 0.8718 sq.ft.lb	
LRC	:	6.9	Duty cycle		: Cont.(S1)	
Rated torque	:	22.5 ft.lb	Insulation class		: F	
Locked rotor torque	e :	190 %	Service factor		: 1.00	
Breakdown torque	wn torque : 290 % Temperature rise		ıre rise	: 105 K : B		
Rated speed :		2920 rpm	Design			
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# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

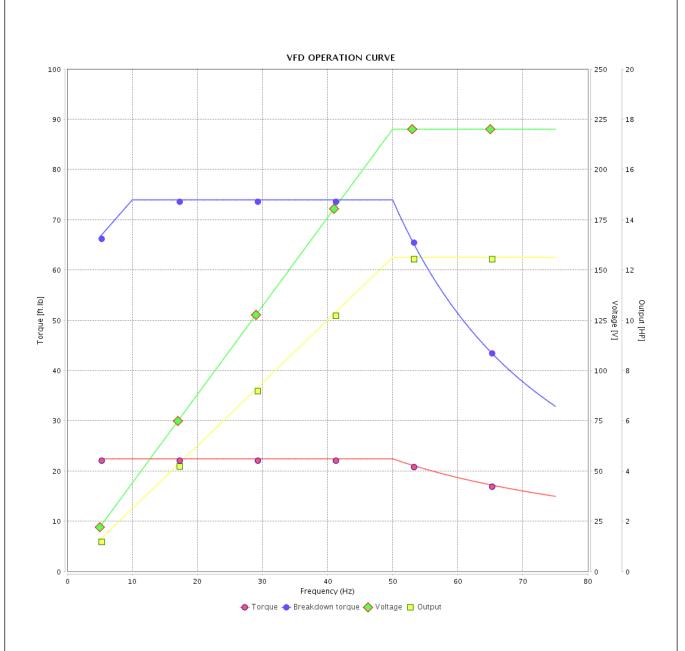
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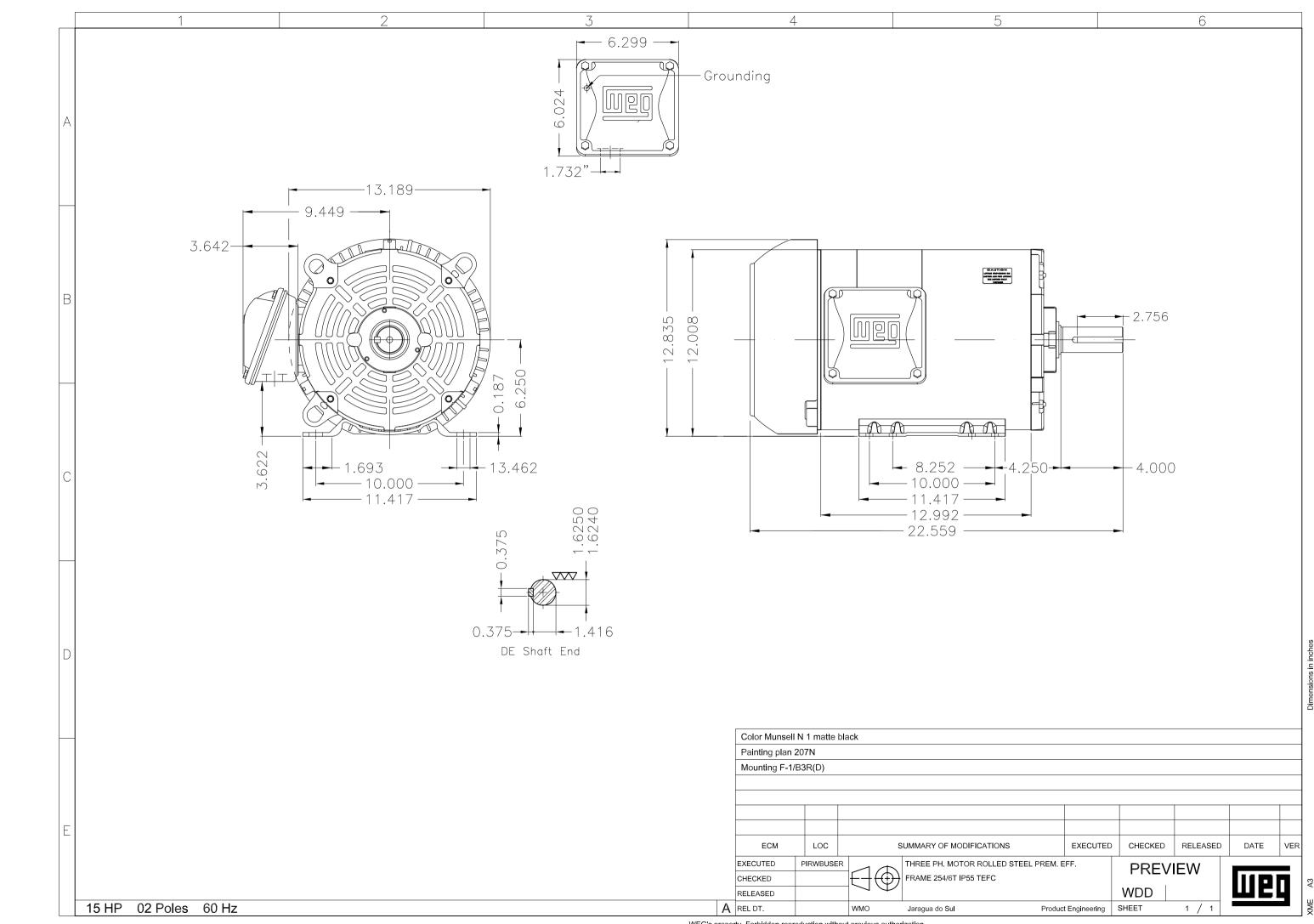


Performance	: 22	20/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 22  ue : 2.  ue : 3.	2.3/17.1 A .6 2.4 ft.lb 10 % 30 % 930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.8718 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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MADE IN MÉXICO

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(**UL)**US LISTED

FOR SAFE AREA

3PT9

Energy Verifi

MODEL 01536ET3E254T-S N01.TE0IC0X0N 12707693

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> 9 S/N 4 254/6T 0JAN2022

1000 m.a.s.l

CONT

34.8/17.4 10.0/20.0

15

3FA 냃 쌆

P55

F AT 80K

NSC

230/460

U CODE SH SABLE @ 208V 38.5A

TEFC 20°C

12.5HP 35.4-31.3/17.7-16.6A ALTERNATE RATING:

SF1.00 NCL W

NEMA **2920RPM** ZPM 50 Hz

ODE 6208-Z-C3

8309-Z-C3

牌

T12

NOM. EFF 91.0%

**EFF 89.8%** 

190-220/380-415V

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT (IE2)

IEC 60034-1 15797h

SF1.00

71-BLU 13-ORG MOBIL POLYREX EM T11 OT12

T4-YEL

T6-GRY T8-RED

T2-WHT

T9-BRK RED F5-BLK L7-PNK

HIGH

MOT



choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine.





777

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit.

F11-GRN T12-VLT T10-CURRY