DATA SHEET

Three Phase Induction Motor - Squirrel Cage



90.4

90.3

0.28

0.50

0.63

0.71

Customer

Product line : NEMA Premium Efficiency Three-Product code: 12759401

Catalog #: 01012ET3E256T-SG

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 Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 241 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 2.83 sq.ft.lb Design : B Output [HP] 10 7.5 7.5 Poles 6 6 6 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 27.6/13.8 25.0/12.5 23.4/12.4 L. R. Amperes [A] 149/74.5 140/74.4 138/68.7 LRC [A] 5.4x(Code G) 5.5x(Code G) 6.0x(Code H) No load current [A] 14.2/7.12 14.1/7.03 14.3/7.56 Rated speed [RPM] 1175 975 980 Slip [%] 2.08 2.50 2.00 Rated torque [ft.lb] 44.7 40.4 40.2 Locked rotor torque [%] 210 210 250 Breakdown torque [%] 229 250 280 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 54s (cold) 30s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 90.0 89.5 88.88 50% 90.2 89.5 89.0 Efficiency (%)

90.5

90.2

0.31

0.54

0.66

0.74

Non drive end Foundation loads Drive end

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 419 lb Sealing V'Ring Without Max. compression : 660 lb

91.0

91.0

0.33

0.57

0.69

0.75

Bearing Seal

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

Mobil Polyrex EM Lubricant type

Notes

Power Factor

USABLE @208V 30.5A SF 1.00 SFA 30.5A

75%

100%

25%

50%

75%

100%

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



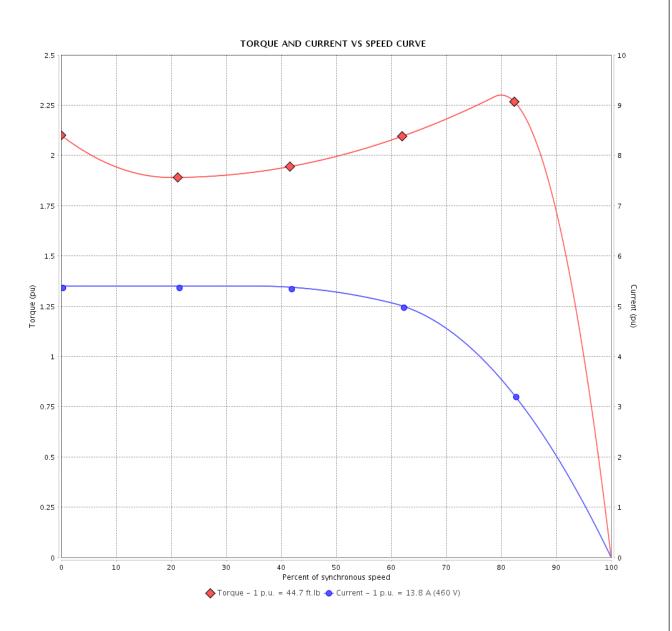
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12759401

Catalog #: 01012ET3E256T-SG



Performance : 230/460 V 60 Hz 6P Rated current : 27.6/13.8 A Moment of inertia (J) : 2.83 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 44.7 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

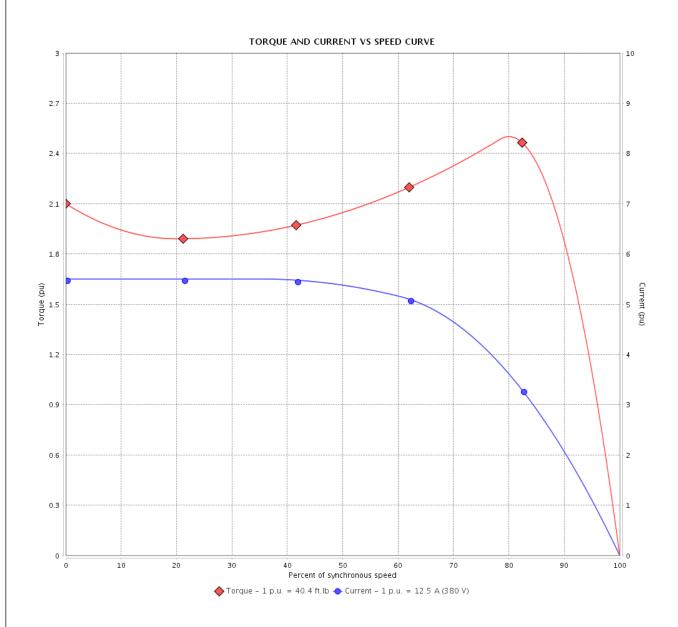
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12759401

Catalog #: 01012ET3E256T-SG



Performance	: 190/380 V 50 Hz 6P			
Rated current	: 25.0/12.5 A	Moment of inertia (J)	: 2.83 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 40.4 ft.lb	Insulation class	:F ^	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: Os (cold) Os (hot)			

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

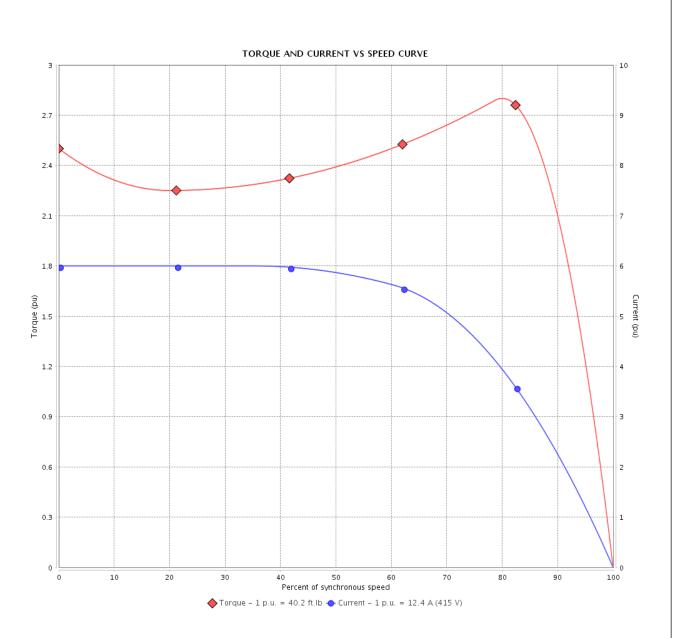
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

12759401

01012ET3E256T-SG



Performance : 220/415 V 50 Hz 6P Rated current : 23.4/12.4 A Moment of inertia (J) : 2.83 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 40.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

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

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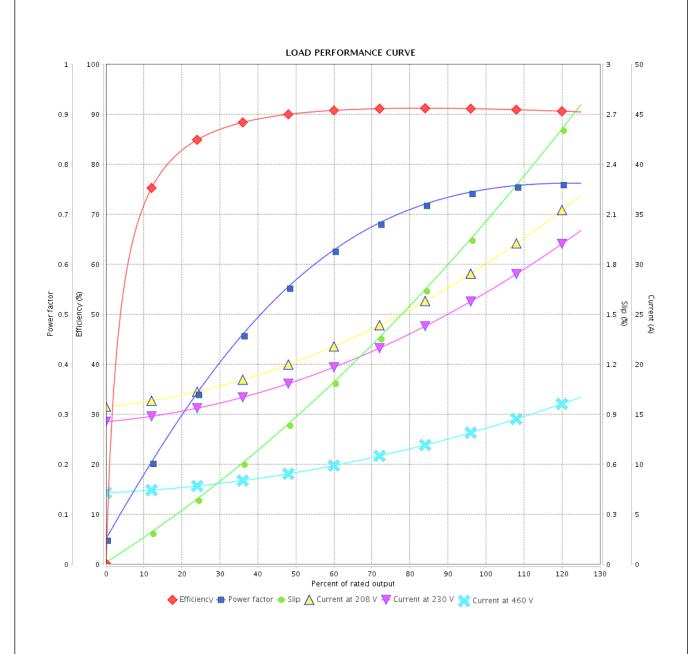
Three Phase Induction Motor - Squirrel Cage



Customer

: NEMA Premium Efficiency Three-Product line Product code: 12759401

01012ET3E256T-SG Catalog #:



LRC : 5. Rated torque : 44	4.7 ft.lb	Moment of Duty cycle Insulation		: 2.83 sq.ft.lb : Cont.(S1) : F	
	10 % 29 % 175 rpm	Service fa Temperati Design	ctor	: 7 : 1.15 : 80 K : B	
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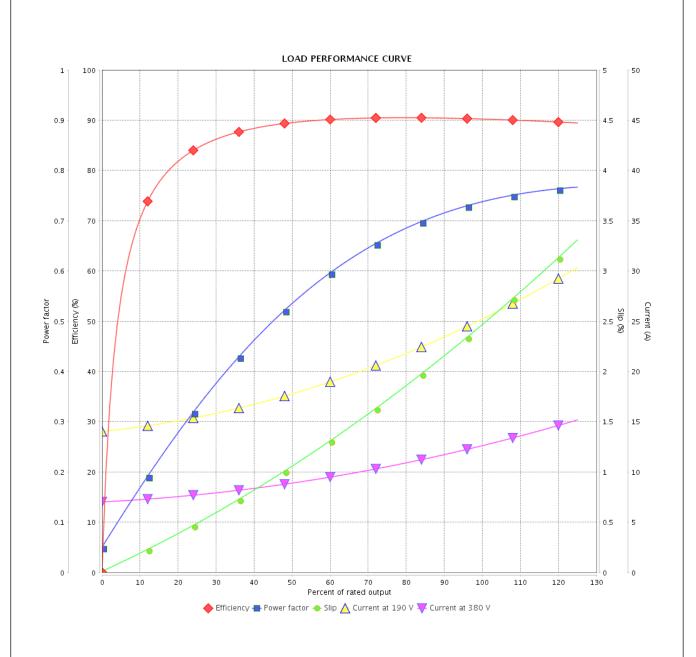
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01012ET3E256T-SG

12759401

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Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 25.0/12.5 A : 5.5 : 40.4 ft.lb : 210 % : 250 % : 975 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design	,	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

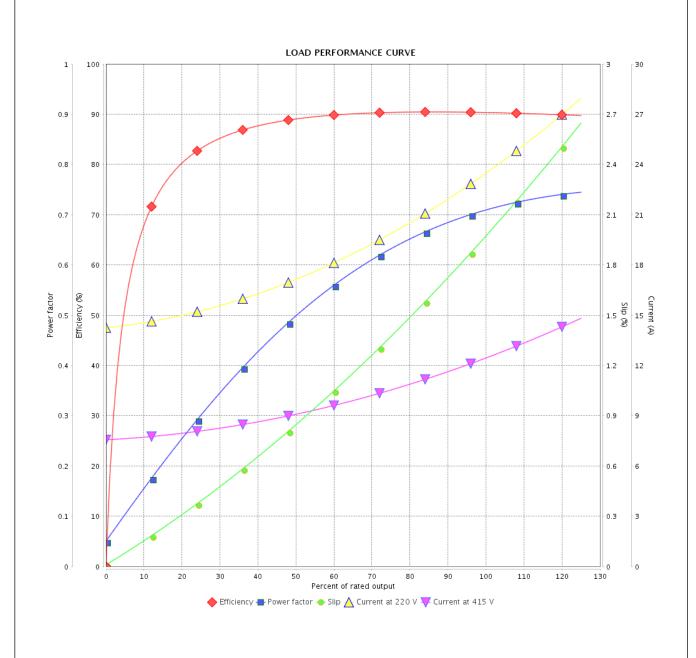


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12759401

Phase

Catalog #: 01012ET3E256T-SG



Performance	formance : 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 23.4/12.4 A : 6.0 : 40.2 ft.lb : 250 % : 280 %	Moment of ine Duty cycle Insulation clas Service factor Temperature ri	S	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Rev.	: 980 rpm Changes Summary	Design	Performed	: B Checked	Date
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Three Phase Induction Motor - Squirrel Cage

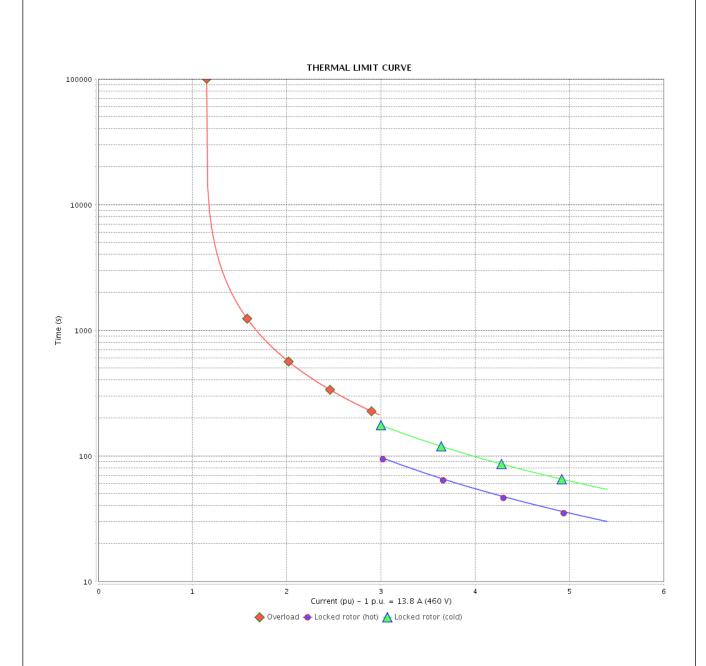


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Product line		NEMA Premium Efficiency	Three-	Product code :	12759401	
	Pl	nase		Catalog # :	01012ET3E2	56T-SG
- ·		20/400 1/400 1/400				
Performance		30/460 V 60 Hz 6P 7.6/13.8 A	Momento	finartia (I)	· 2 92 og ft lb	
Rated current LRC	: 5.	4	Duty cycle	f inertia (J)	: 2.83 sq.ft.lb : Cont.(S1)	
Rated torque		1.7 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 29 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		75 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

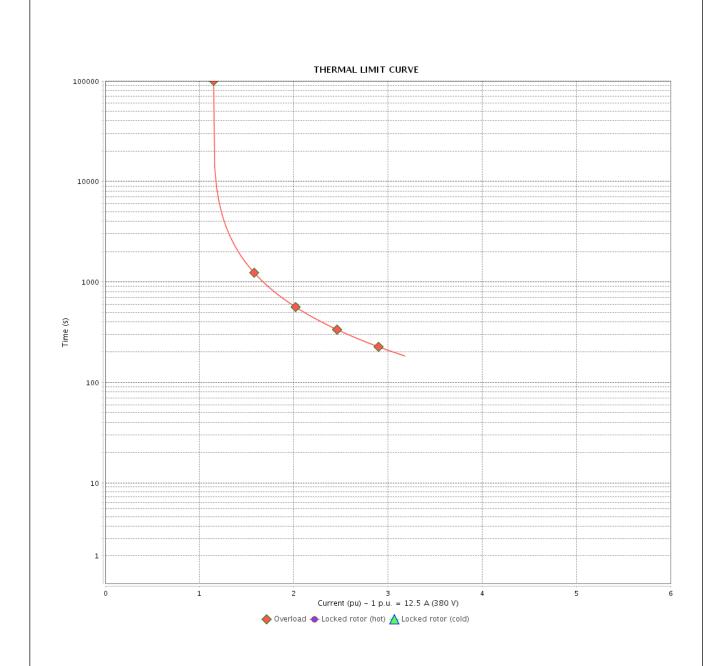


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12759401	
	Pl	hase		Catalog # :	01012ET3E25	56T-SG
Performance	: 19	90/380 V 50 Hz 6P				
Rated current		5.0/12.5 A	Moment o	f inertia (J)	: 2.83 sq.ft.lb	
LRC Rated torque	: 5. · 40	5 0.4 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torq	ue : 2'	10 %	Service fa	ctor	: 1.15	
Breakdown torqu		50 %	Temperatu	ıre rise	: 80 K	
Rated speed		75 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

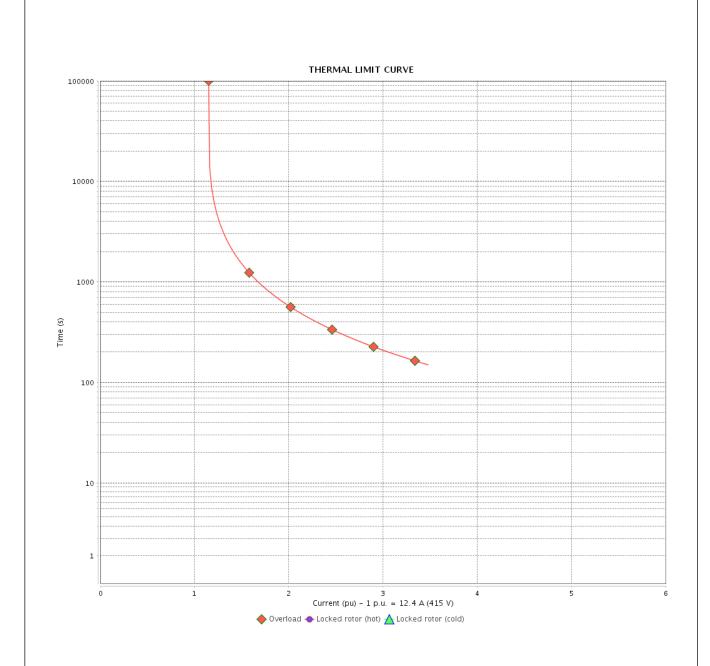


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Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12759401	
	i nasc		Catalog # :	01012ET3E25	6T-SG
Performance	: 220/415 V 50 Hz 6P				
Rated current LRC	: 23.4/12.4 A : 6.0	Moment o	f inertia (J)	: 2.83 sq.ft.lb : Cont.(S1)	
Rated torque	: 40.2 ft.lb	Insulation	class	: F	
Locked rotor torque	: 250 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 280 % : 980 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

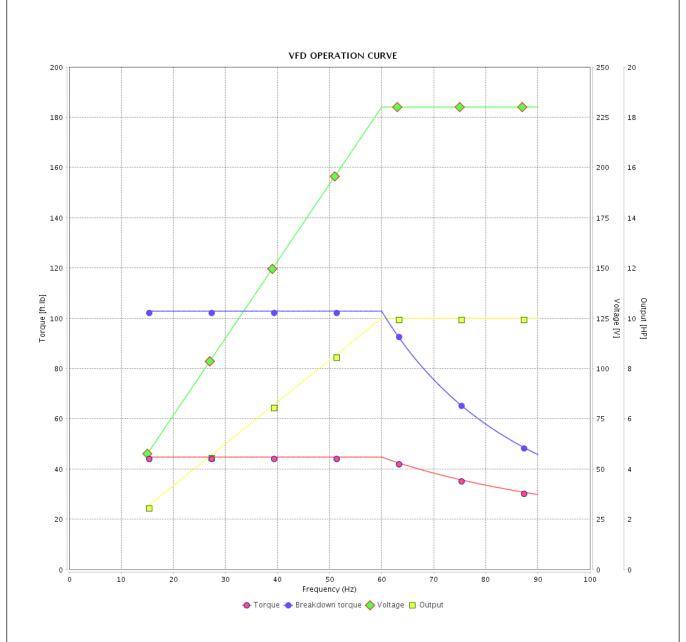
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01012ET3E256T-SG

12759401

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Performance : 230/460 V 60 Hz 6P Rated current : 27.6/13.8 A Moment of inertia (J) : 2.83 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.4 Insulation class : 44.7 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



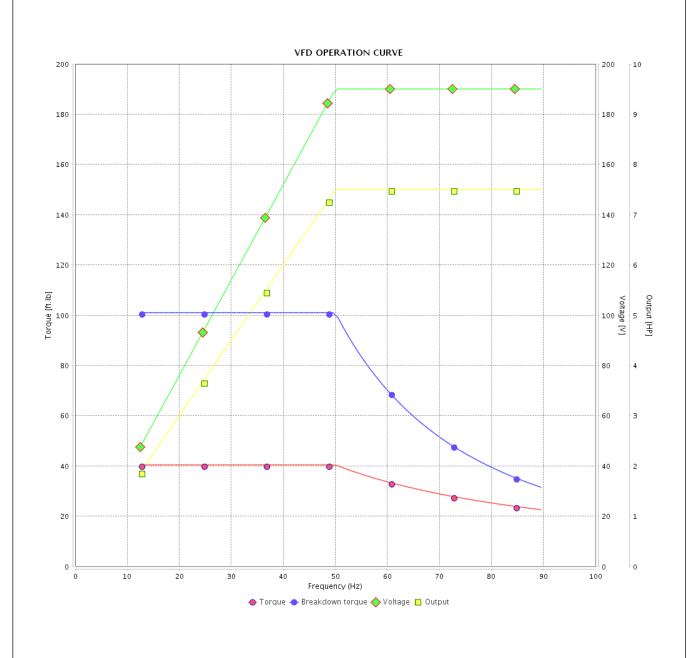
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01012ET3E256T-SG

12759401



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Performance		: 190/380 V 50 Hz 6P						
Rated current		5.0/12.5 A	Moment of inertia (J)		: 2.83 sq.ft.lb			
LRC Rated torque		5.5 Duty cycle 40.4 ft.lb Insulation		:	: Cont.(S1)			
				class	: F			
Locked rotor torqu	ue : 2	: 210 % Service : 250 % Tempera : 975 rpm Design		ctor	: 1.15			
Breakdown torque	e : 2			ıre rise	: 80 K			
Rated speed	: 9				: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

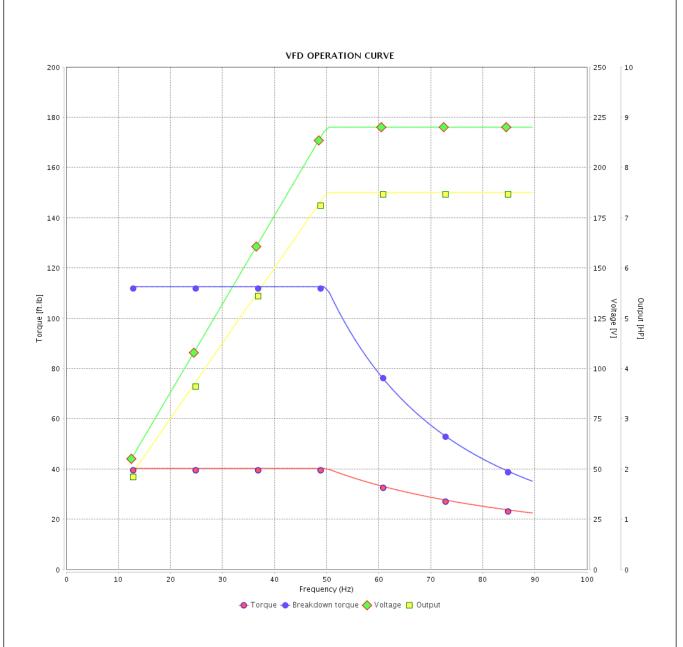
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12759401

Catalog #: 01012ET3E256T-SG

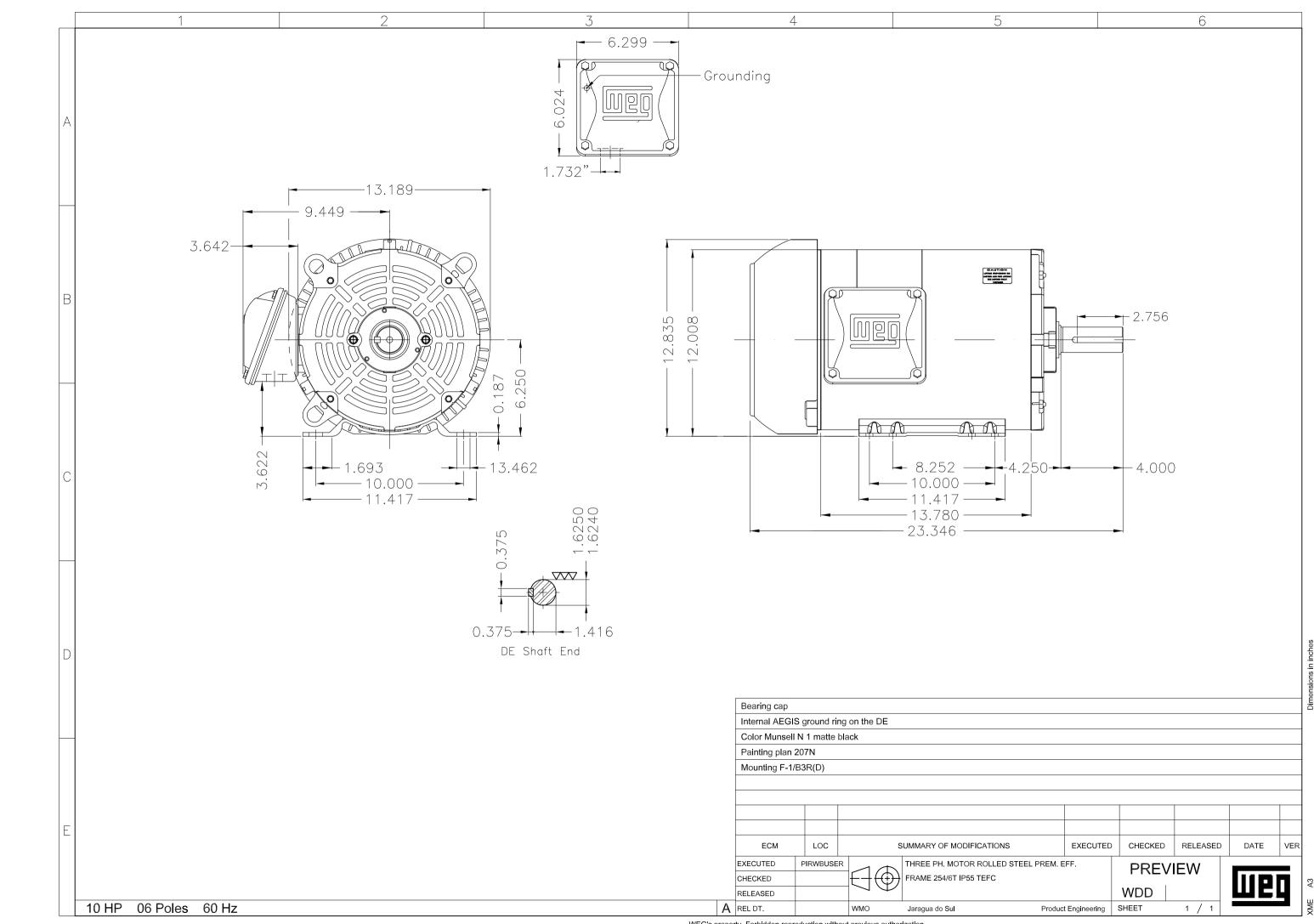


Performance	: 2	220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		23.4/12.4 A 6.0 40.2 ft.lb 250 % 280 % 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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(**UL)**US LISTED 3PT9

Energy Verifi

MODEL 01012ET3E256T-SG

210CT2021

N01.TE0IC0X0N

12759401

MADE IN MÉXICO

9 S/N

4

254/6T

CONT

SF1.15

27,6/13.8 31.7/15.9

230/460 1.15

8

T4-YEL T2-WHT T6-GRY T8-RED

F11-GRN T12-VLT T9-BRK RED T10-CURRY 13-ORG F5-BLK L7-PNK

нон

MOT

IEC 60034-1

190-220/380-415V

50 Hz

7.5HP

25.0-23.4/12.5-12.4A

NOM. EFF 91.0%

NEMA 975RPM

SABLE @ 208V 30.5A LTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 냃 쌆

U

CODE SH

TEFC 20°C

P55

1000 m.a.s.l

F AT 80K

2000

EFF 90.2%

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 4:1 CT

MOBIL POLYREX EM

ODE 6208-Z-C3

8309-Z-C3

牌

T11 OT12

T12

71-BLU

777

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

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. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

2000bh