DATA SHEET

Three Phase Induction Motor - Squirrel Cage



89.0

90.4

90.3

0.28

0.50

0.63

0.71

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472062

Phase

Catalog #: 01012ET3ER256TC-S

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

Insulation class : F Mounting : W-6

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 256 lb

Altitude : 1000 m.a.s.l. Approx. weight : 256 lb

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] 149/74.5 138/68.7 140/74.4 LRC [A] 6.0x(Code H) 5.4x(Code G) 5.5x(Code G) No load current [A] 14.3/7.56 14.2/7.12 14.1/7.03 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

89.5

90.5

90.2

0.31

0.54

0.66

100% 0.75 0.74

Drive end Non drive end Foundation loads

90.2

91.0

91.0

0.33

0.57

0.69

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 411 lb Sealing : V'Ring Without Max. compression : 668 lb

Bearing Seal

Lubrication interval : 19702 h 20000 h
Lubricant amount : 13 g 8 g

Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

Efficiency (%)

Power Factor

USABLE @208V 30.5A SF 1.00 SFA 30.5A

50%

75%

100%

25%

50%

75%

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 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



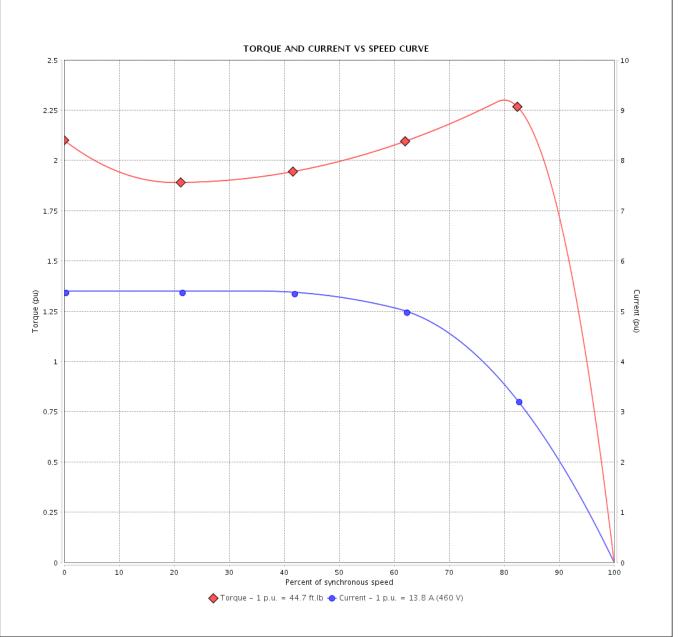
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 13472062

Catalog #: 01012ET3ER256TC-S



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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

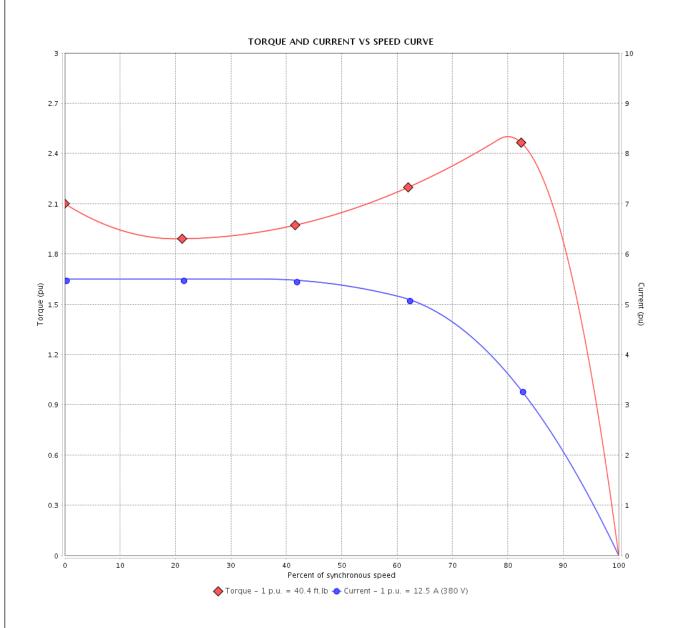


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472062

Phase

Catalog #: 01012ET3ER256TC-S



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 : 0s (cold) 0s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

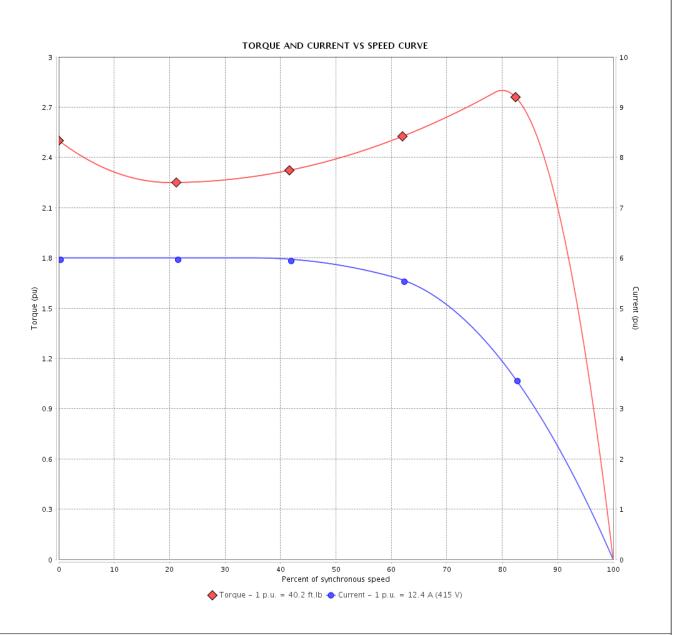


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01012ET3ER256TC-S

13472062



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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

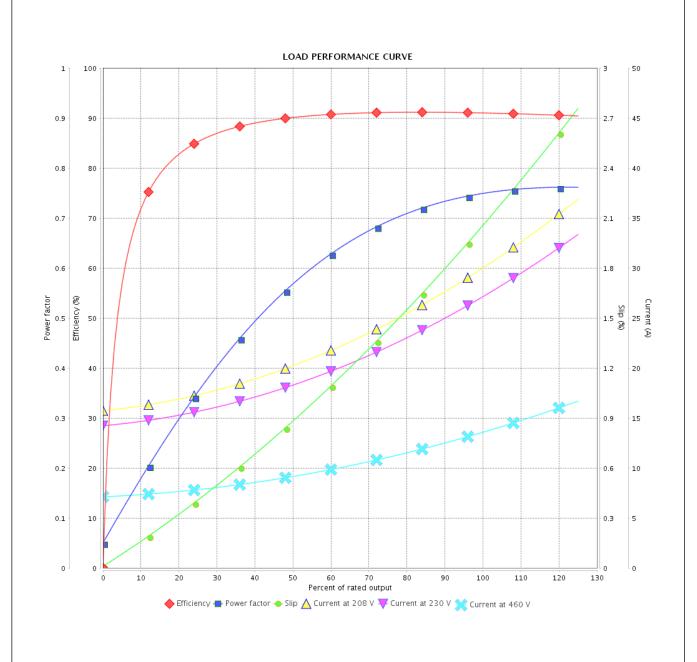


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472062

Phase

Catalog #: 01012ET3ER256TC-S



Performance : 230/460 V 60 Hz 6P						
Rated current	: 2	27.6/13.8 A	Moment o	f inertia (J)	: 2.83 sq.ft.lb	
LRC	: 5	5.4	Duty cycle	:	: Cont.(S1)	
Rated torque	: 4	4.7 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	210 %	Service fa	ctor	: 1.15	
Breakdown torque		229 %	Temperatu	Temperature rise		
Rated speed	: 1	175 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product c

Phase

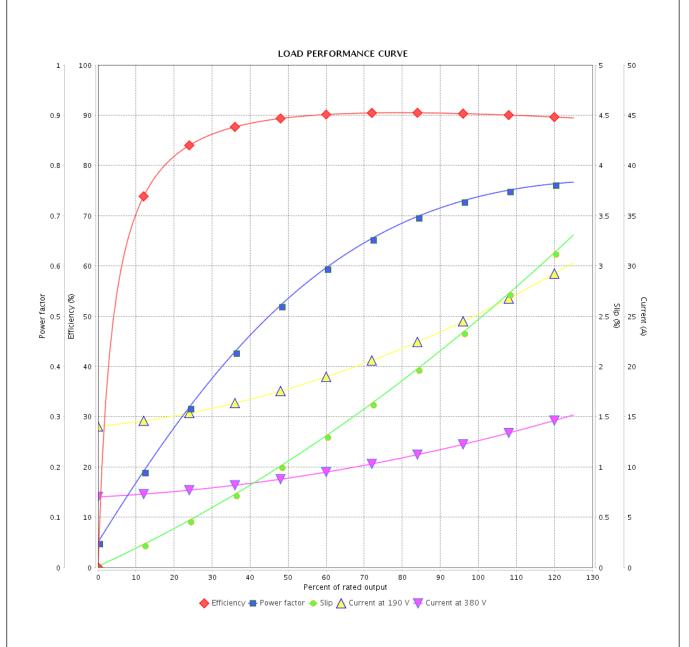
Product code: 13472062

Catalog #: 01012ET3ER256TC-S

Page

6/16

Revision



Performance	:	190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue :	25.0/12.5 A 5.5 40.4 ft.lb 210 % 250 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						

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Three Phase Induction Motor - Squirrel Cage



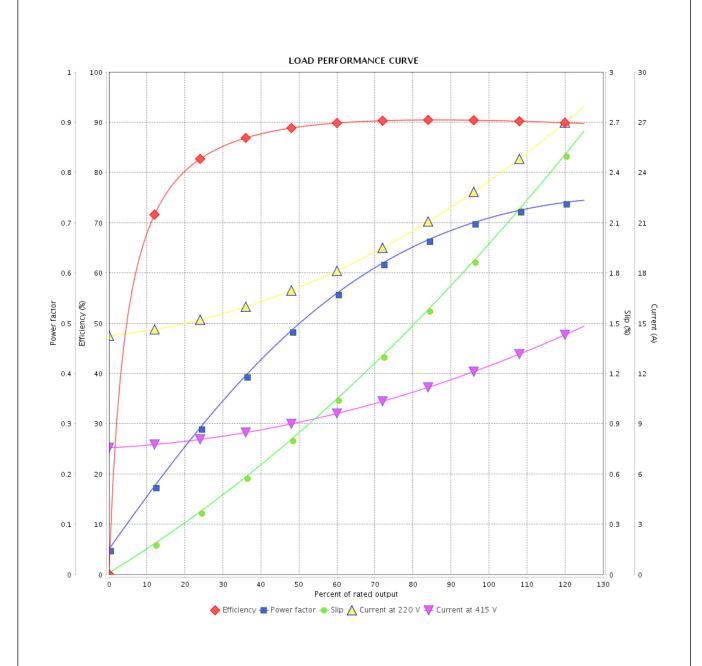
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472062

Phase

Catalog #: 01012ET3ER256TC-S

7 / 16



Performance	: 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 in Duty cycle Insulation classification Compensation Compensation Compensation Design	ass or	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

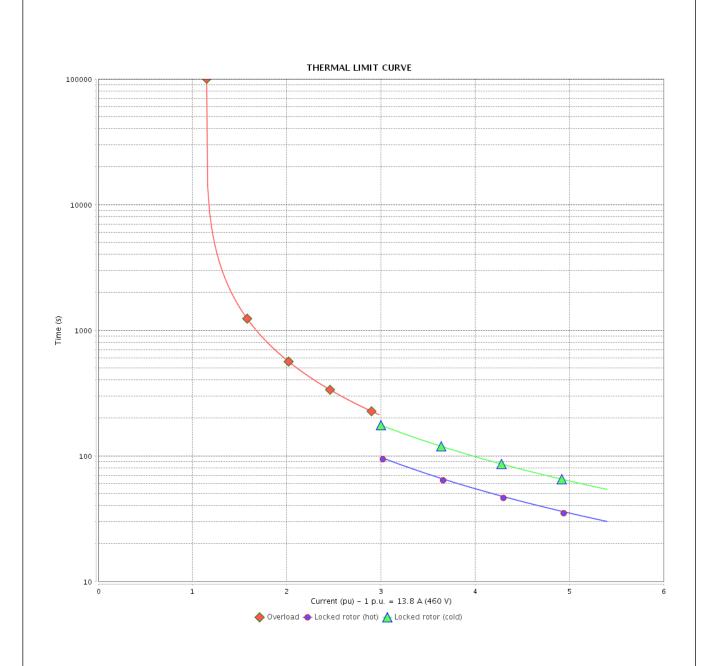


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13472062	
	P	hase		Catalog # :	01012ET3ER	256TC-S
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 27 : 5.	7.6/13.8 A <i>a</i>	Moment of Duty cycle	f inertia (J)	: 2.83 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.7 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 29 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		29 % 175 rpm	Design	119 €	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by Checked by		_			Page	Revision
Checked by	10/04/0222	_			Page	VEAISIO[]

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

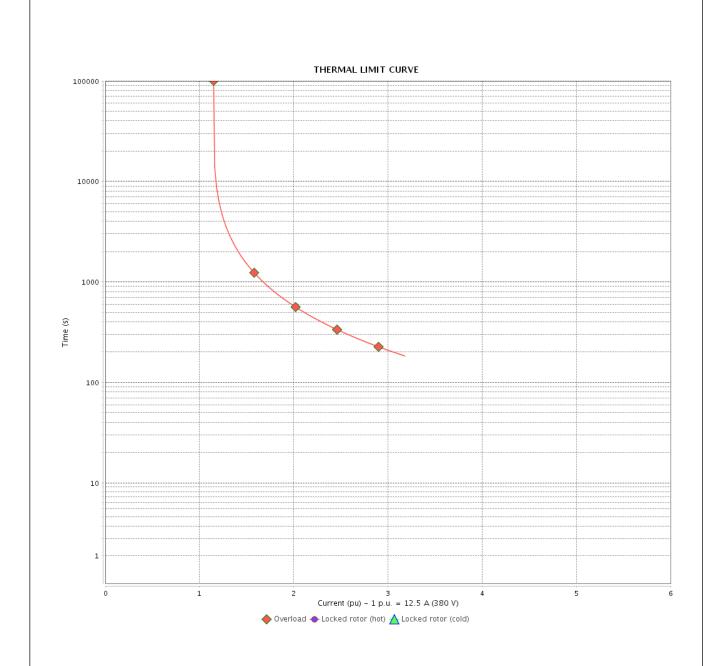


Customer	:					
Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	13472062 01012ET3EF	2256TC-S
Performance		190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 que : 2 µe : 2	25.0/12.5 A 5.5 40.4 ft.lb 210 % 250 % 975 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by Date	12/04/2022				Page 10 / 16	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

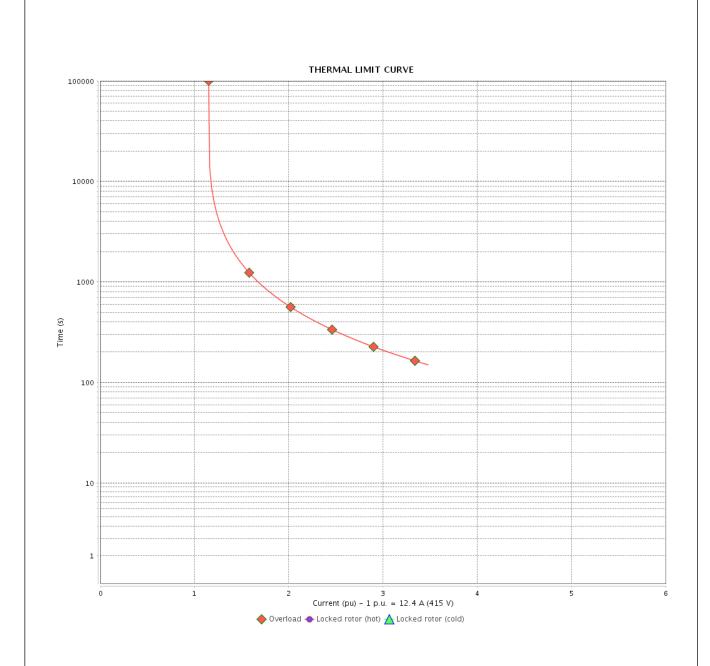


Customer		:			·	
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	13472062 01012ET3ER2	256TC-S
Performance Rated current LRC Rated torque Locked rotor torque	: : : jue :	220/415 V 50 Hz 6P 23.4/12.4 A 6.0 40.2 ft.lb 250 %	Duty cycle Insulation Service fa	class ctor	: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	:	280 % 980 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				12 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

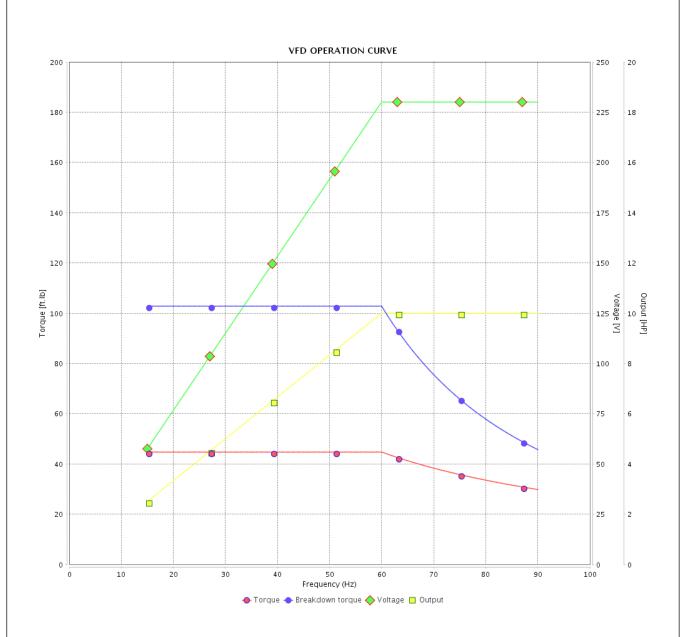
12/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13472062

Catalog #: 01012ET3ER256TC-S



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 : 5.4 : Cont.(S1) 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

14 / 16

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



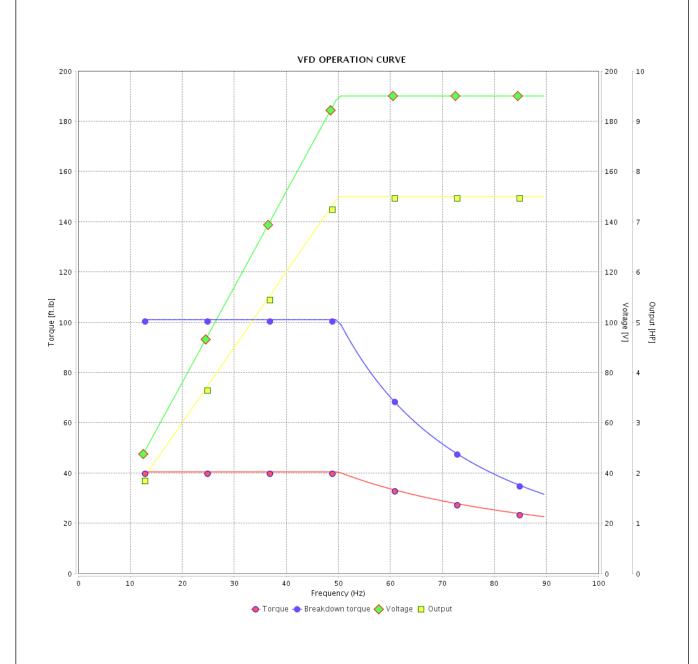
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472062

Phase

Catalog #: 01012ET3ER256TC-S

15 / 16



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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.83 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

12/04/2022

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

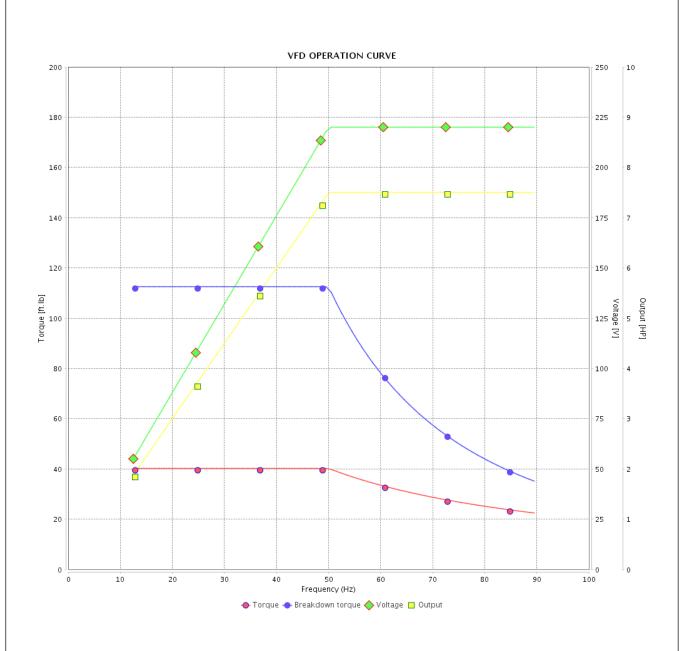
Product line : NEMA Premium Efficiency Three- Product code :

Phase

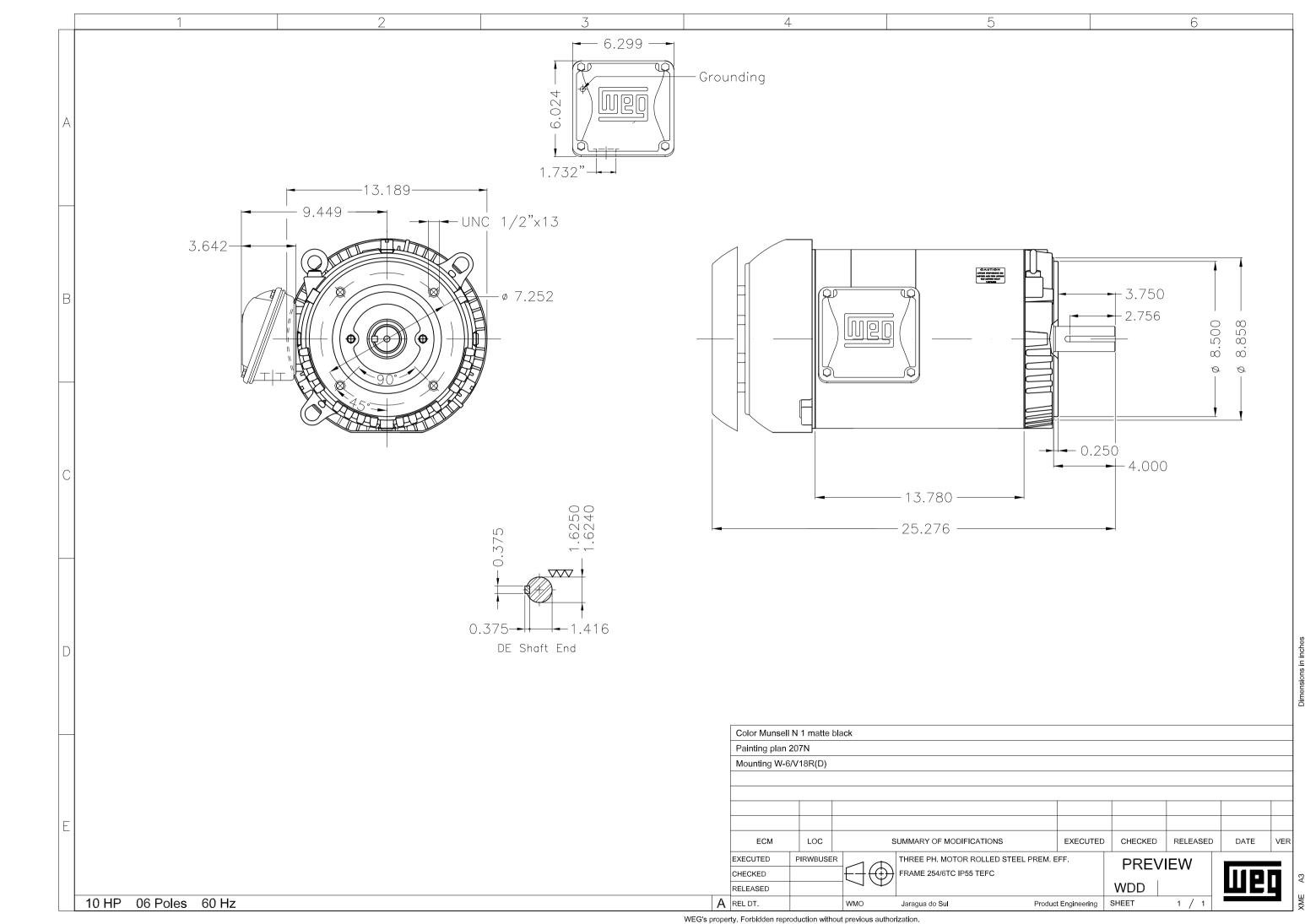
Catalog #: 01012ET3ER256TC-S

13472062

16 / 16



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





ZEZ Premi

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FOR SAFE AREA

3PT9

Energy Verifi

13472062 MADE IN MÉXICO

MODEL 01012ET3ER256TC-S S/N N01.TE0IC0X0N 3MAI2021

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

For 60Hz: Class I, Zone 2,

8 걒 254/6TC

1000 m.a.s.l

CONT

P55

F AT 80K

NSC

27.6/13.8 31.7/15.9

230/460 1.15

> CODE SH SABLE @ 208V 30.5A

TEFC

20°C

ZPM 3FA 냃 监

> U ALTERNATE RATING:

SF1.00 INC. W

ODE 6208-Z-C3 7.5HP

25.0-23.4/12.5-12.4A

8309-Z-C3

牌

975RPM 50 Hz

NEMA

NOM. EFF 91.0%

EFF 90.2%

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT 190-220/380-415V

IEC 60034-1 1970Zh

SF1.15

71-BLU MOBIL POLYREX EM T11 OT12

T2-WHT

13-ORG F5-BLK L7-PNK

HIGH

MOT

T12

777

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



T8-RED

F11-GRN T12-VLT T9-BRK RED T10-CURRY

AVERTISSEMENT: Le moteur doit être mis à la terre

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

conformément aux codes électriques locaux et nationaux afin d'éviter tout