DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12692798

Catalog #: 02018ET3E256T-S

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 Altitude : 242 lb : IP55 Protection degree Moment of inertia (J) : 2.64 sq.ft.lb

: B Design

Output [HP]		20	15	15
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		49.4/24.7	44.4/22.2	41.3/21.9
L. R. Amperes [A]		331/165	329/164	330/175
LRC [A]		6.7x(Code H)	7.4x(Code J)	8.0x(Code K)
No load current [A]	22.2/11.1	21.9/10.9	22.5/11.9
Rated speed [RPN	1]	1765	1470	1475
Slip [%]		1.94	2.00	1.67
Rated torque [ft.lb]		59.5	53.6	53.4
Locked rotor torqu	e [%]	270	270	310
Breakdown torque	[%]	300	320	360
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	91.0	91.8	91.1
Efficiency (%)	50%	91.7	91.6	91.1
Liliciency (70)	75%	92.4	92.2	92.1
	100%	93.0	91.8	91.9
	25%	0.40	0.37	0.34
Power Factor	50%	0.66	0.63	0.58
1 OWEI I ACIOI	75%	0.77	0.75	0.71
	100%	0.82	0.82	0.79

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 801 lb Sealing V'Ring Without Max. compression : 1043 lb

Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 8 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 54.6A SF 1.00 SFA 54.6A

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



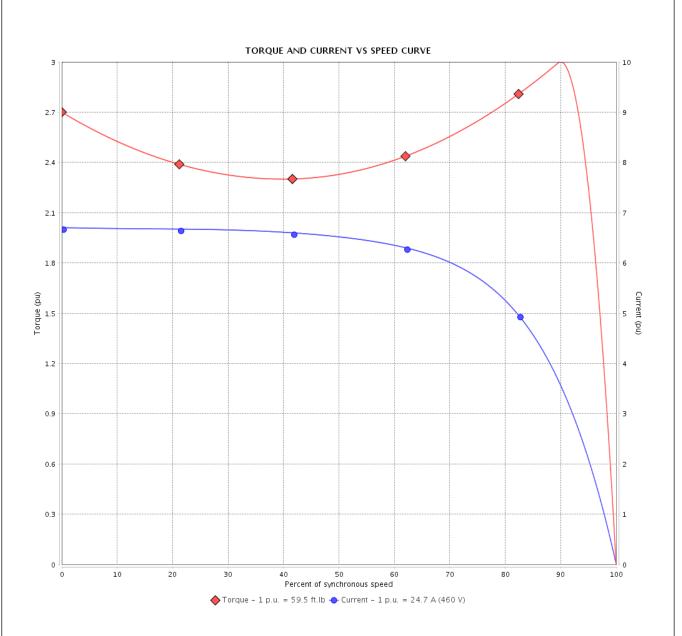
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02018ET3E256T-S

12692798



Performance : 230/460 V 60 Hz 4P Rated current : 49.4/24.7 A Moment of inertia (J) : 2.64 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 59.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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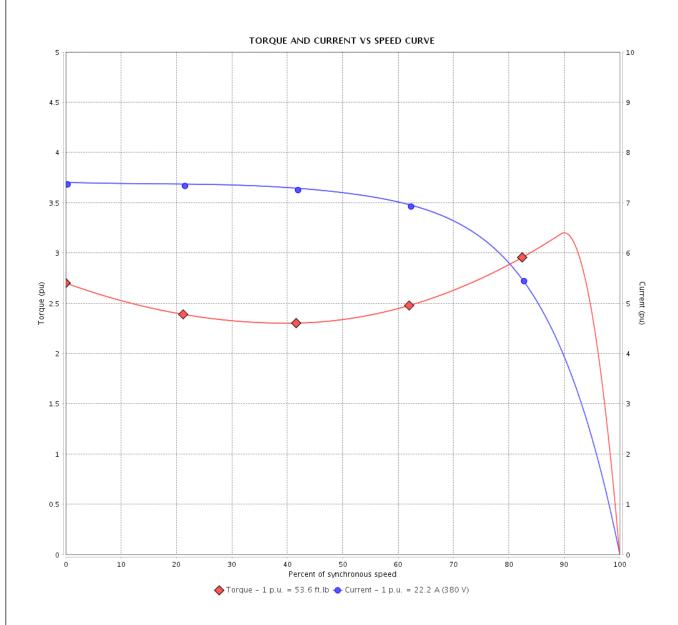


02018ET3E256T-S

Customer

Product line : NEMA Premium Efficiency Three-Product code: 12692798

Catalog #:



Performance : 190/380 V 50 Hz 4P Rated current : 44.4/22.2 A Moment of inertia (J) : 2.64 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 53.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1470 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



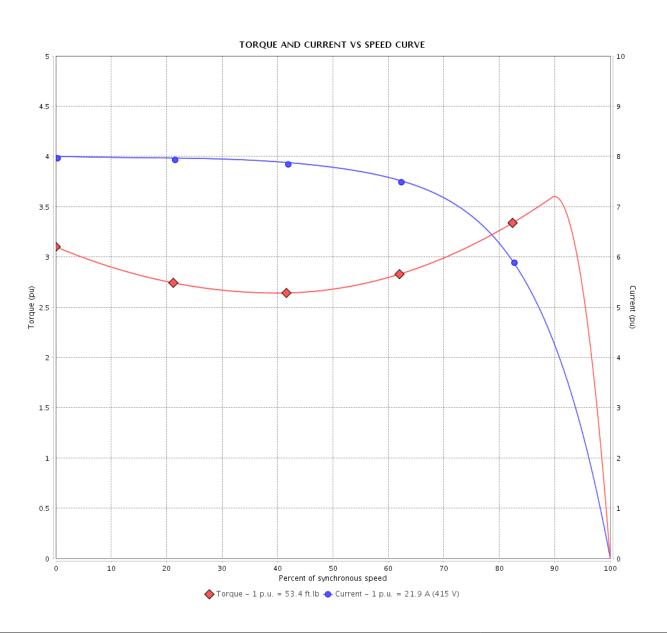
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12692798

Catalog #: 02018ET3E256T-S



Performance	: 220/415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.3/21.9 A : 8.0 : 53.4 ft.lb : 310 % : 360 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.64 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked reter time	: Os (sold) Os (bot)			

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

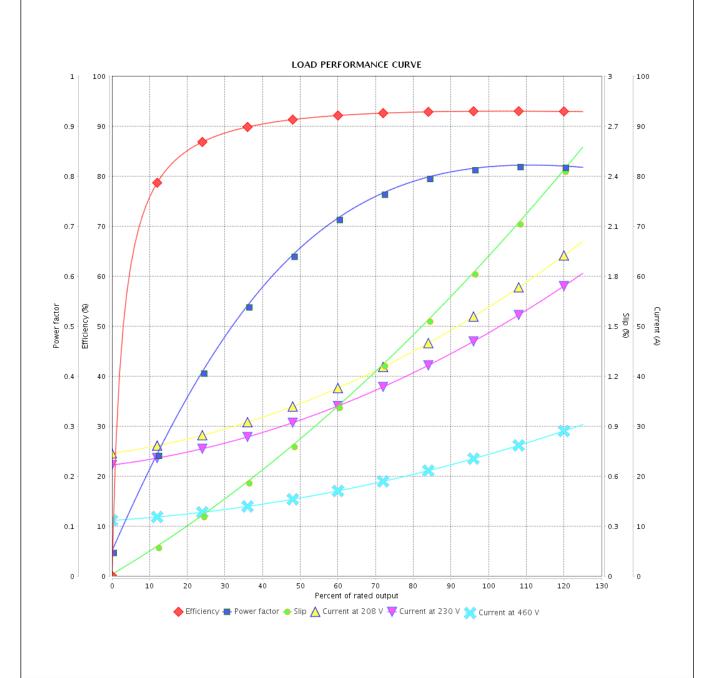


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12692798

Phase

Catalog #: 02018ET3E256T-S



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	49.4/24.7 A	Moment o	f inertia (J)	: 2.64 sq.ft.lb	
LRC	:	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	59.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	270 %	Service fa	ctor	: 1.15	
Breakdown torque	e :	300 %	Temperati	ure rise	: 80 K	
Rated speed	:	1765 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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Date

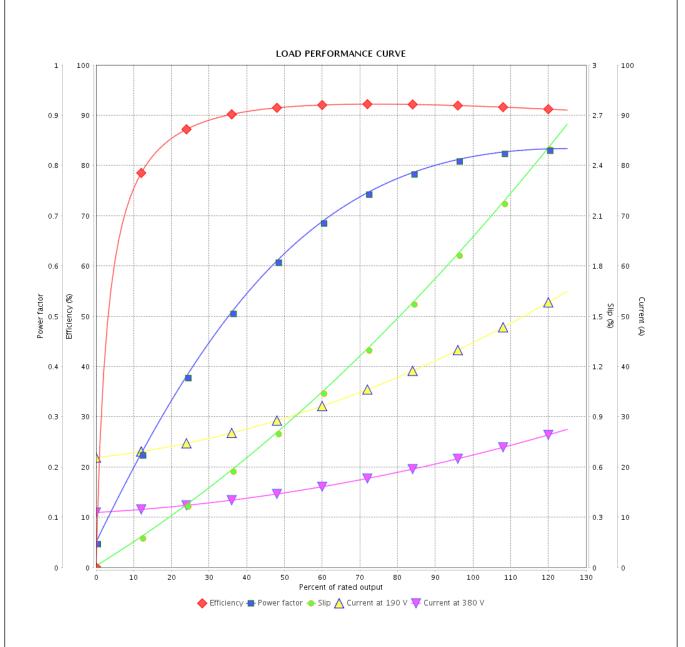
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12692798

Catalog #: 02018ET3E256T-S



Performance	:	: 190/380 V 50 Hz 4	Р			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 44.4/22.2 A : 7.4 : 53.6 ft.lb : 270 % : 320 % : 1470 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 2.64 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B		
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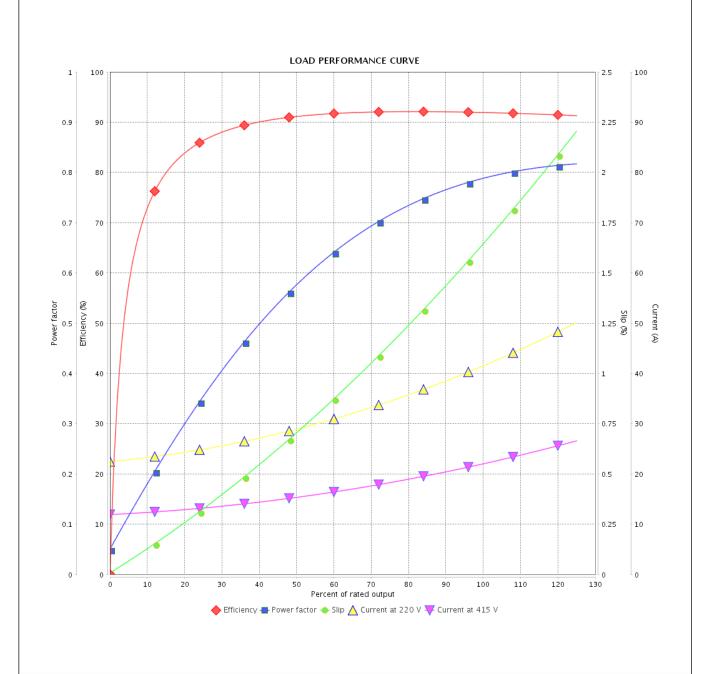


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Product line : NEMA Premium Efficiency Three- Product code : 12692798

Phase

Catalog #: 02018ET3E256T-S



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	: 4	1.3/21.9 A	Moment of	of inertia (J)	: 2.64 sq.ft.lb	
LRC	: 8	.0	Duty cycl	е	: Cont.(S1)	
Rated torque	: 5	3.4 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 3	10 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 3	60 %	Temperat	ure rise	: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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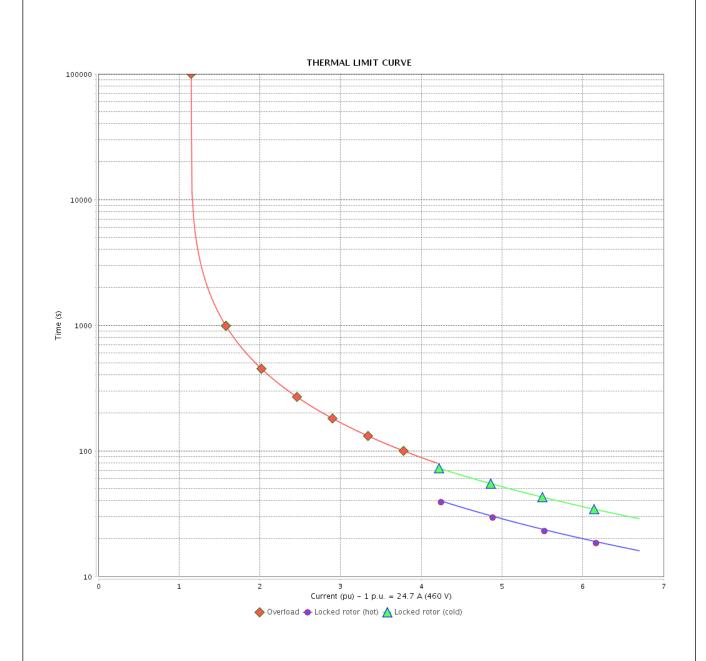


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Product line	:1	: NEMA Premium Efficiency Three-		Product code :	12692798	
		hase				-OT-O
				Catalog # :	02018ET3E2	561-S
Performance	: 23	30/460 V 60 Hz 4P				
Rated current		9.4/24.7 A	Moment o	f inertia (J)	: 2.64 sq.ft.lb	
LRC Rated torque	: 6. : 59	7 9.5 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	ie : 27	70 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		00 % 765 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 11	. 00 ipin	Design		. U	
Heating constant						
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Three Phase Induction Motor - Squirrel Cage



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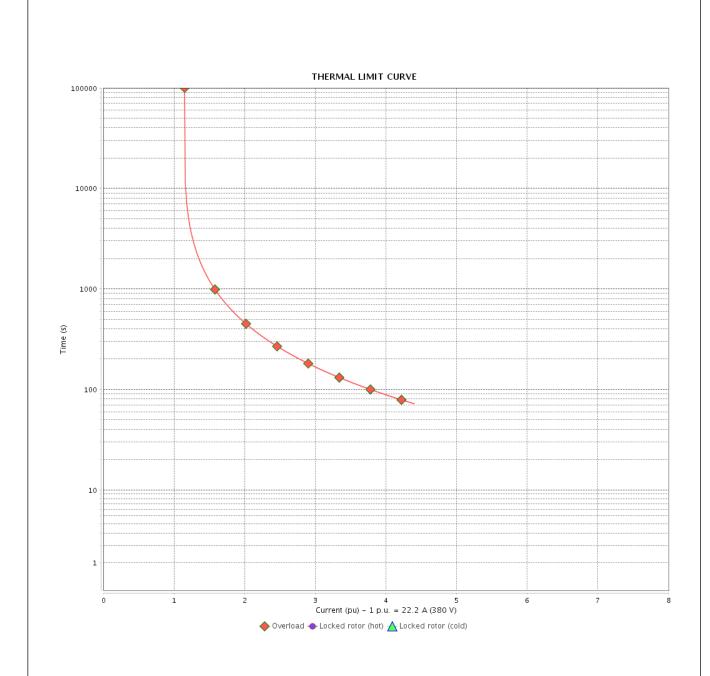


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12692798 02018ET3E2	56T-S
				0201021022	
Performance	: 190/380 V 50 Hz 4P				
Rated current	: 44.4/22.2 A	Moment o	f inertia (J)	: 2.64 sq.ft.lb	
LRC Rated torque	: 7.4 : 53.6 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 270 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 320 % : 1470 rpm	Temperatu Design	ıre rise	: 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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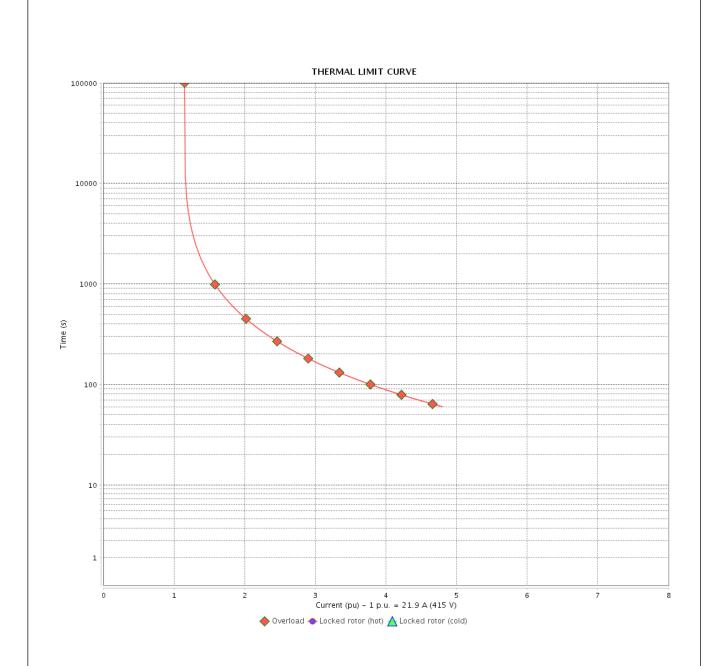


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12692798	
	i ilasc	(Catalog # :	02018ET3E25	6T-S
	: 220/415 V 50 Hz 4P				
	: 41.3/21.9 A : 8.0	Moment of Duty cycle		: 2.64 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.4 ft.lb	Insulation	class	: F	
	: 310 % : 360 %	Service far Temperatu		: 1.15 : 80 K	
	: 1475 rpm	Design	ile lise	: 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

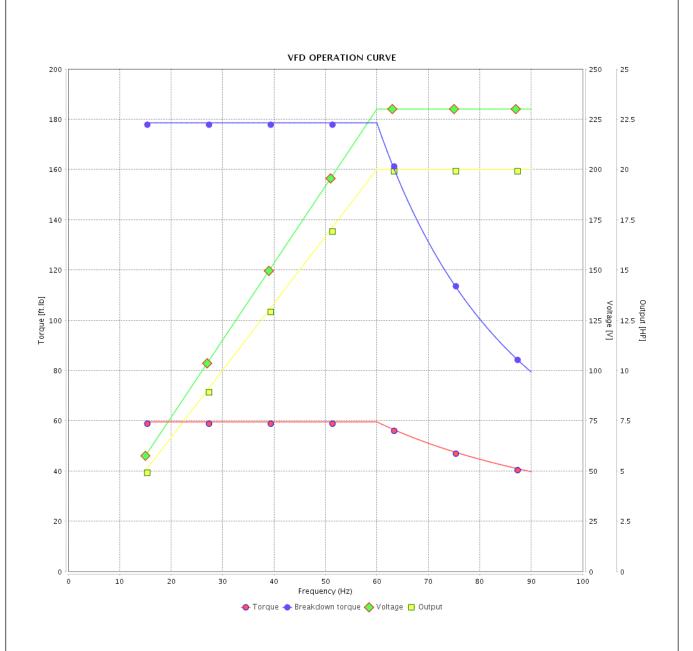
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12692798

Catalog #: 02018ET3E256T-S



Performance : 230/460 V 60 Hz 4P Rated current : 49.4/24.7 A Moment of inertia (J) : 2.64 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : 59.5 ft.lb : F Rated torque Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



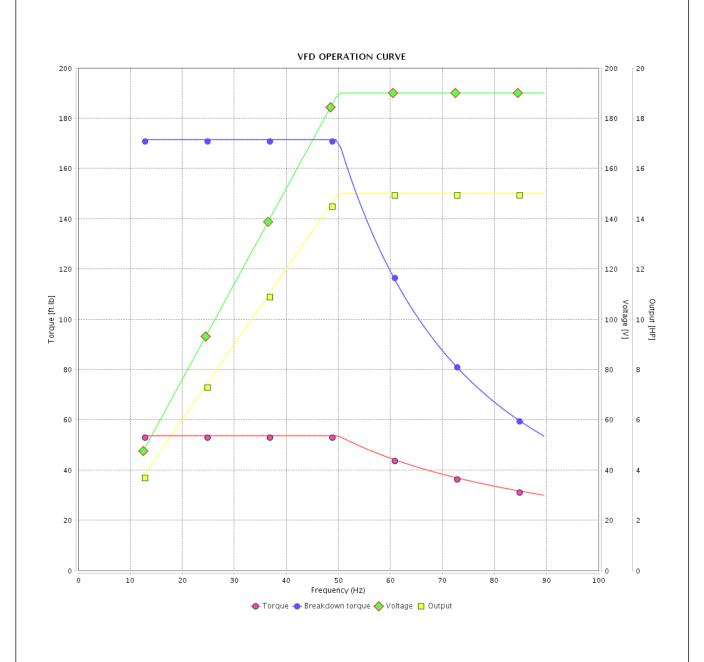
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Product line : NEMA Premium Efficiency Three- Product code :

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Catalog #: 02018ET3E256T-S



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 44.4/22.2 A : 7.4 : 53.6 ft.lb : 270 % : 320 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.64 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 :

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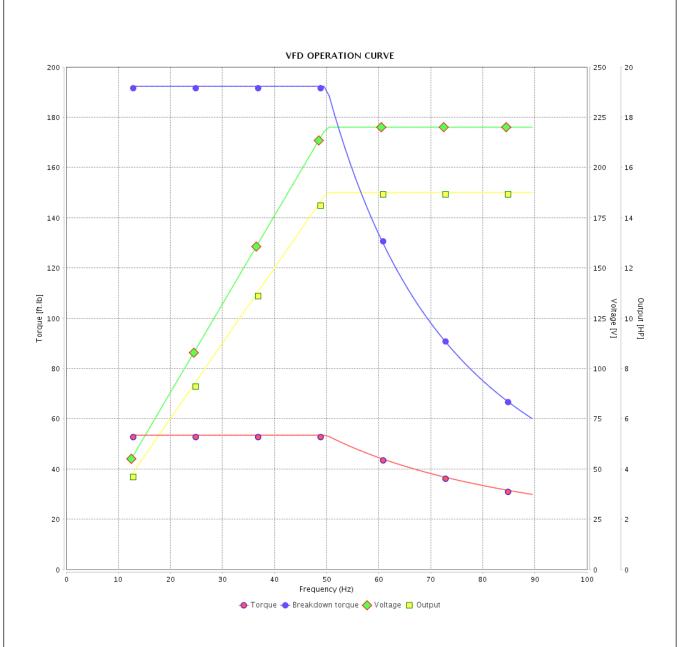
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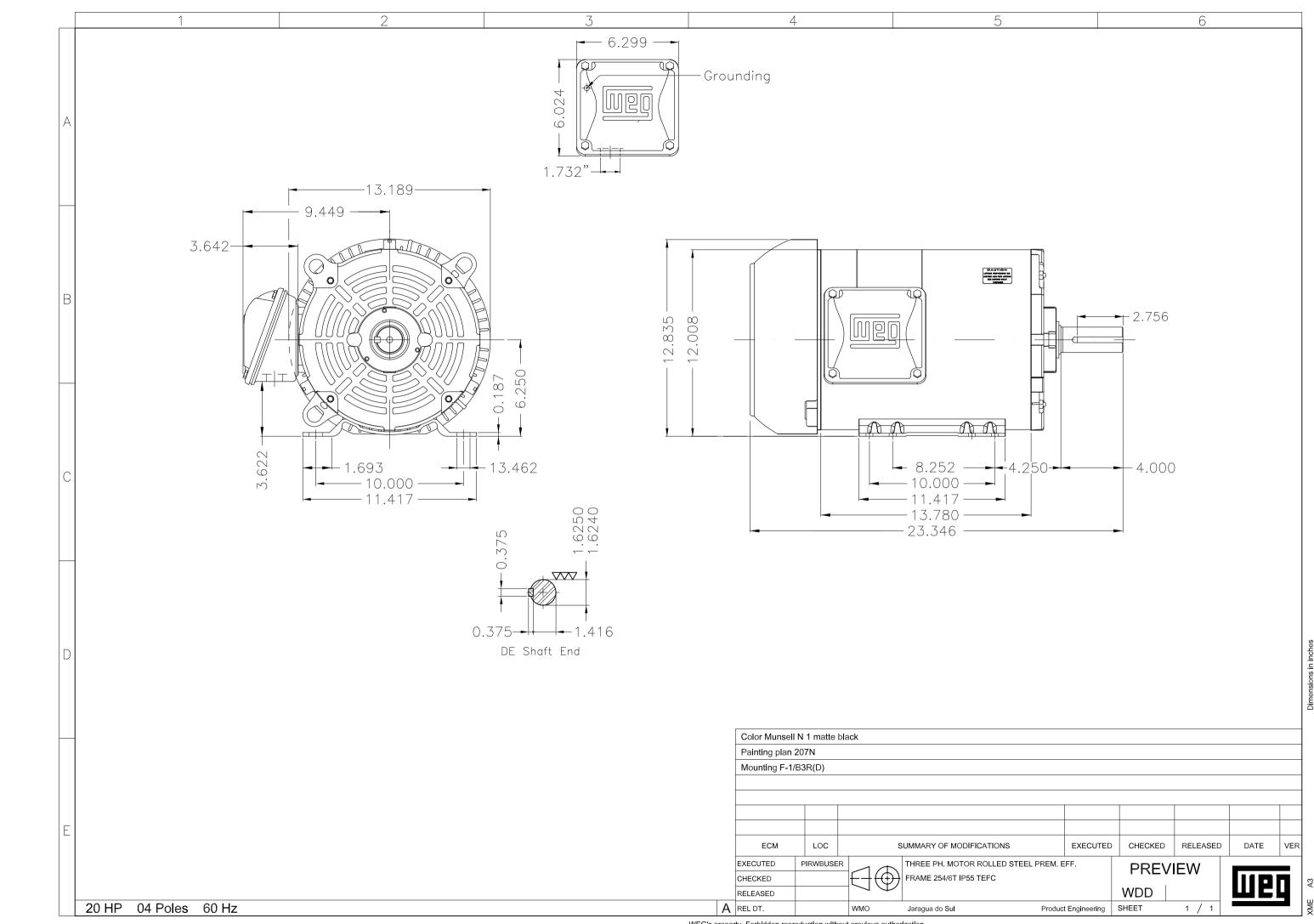


Performance		: 220/415 V 50 Hz	4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 41.3/21.9 A : 8.0 : 53.4 ft.lb : 310 % : 360 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.64 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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FOR SAFE AREA

3PT9

Energy Verifi

MODEL 02018ET3E256T-S N01.TE0IC0X0N

12692798

MADE IN MÉXICO

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 8MAR2022

254/6T CONT

9.4/24.7 230/460 56.8/28 1.15

> 3FA 냃 쌆

P55 CODE SHO 1000 m.a.s.l F AT 80K

NSC

TEFC 20°C

15HP SABLE @ 208V 54.6A ALTERNATE RATING:

SF1.00 INC. W

NOM EFF NEMA 1470RPM ZPM 50 Hz

14,4-40.7/22.2-21.6A

MOBIL POLYREX EM

ODE 6208-Z-C3

8309-Z-C3

牌

EFF 91.8% 93.0%

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT (IE3) 190-220/380-415V

IEC 60034-1 2000Dh

SF1.15

71-BLU

T11 OT12

110

T12

T4-YEL

T2-WHT

T9-BRK RED 13-ORG F5-BLK L7-PNK

HIGH

MOT

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

777

ind national electrical codes to prevent serious electrical





F11-GRN T12-VLT

T10-CURRY

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.