DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12707653

Catalog #: 02536OT3E256TC-S

: 254/6TC Cooling method : IC01 - ODP Frame

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 194 lb

Design		: B	Moment of inertia (J)	: 0.9155 sq.ft.lb
Output [HP]		25	25	25
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		58.2/29.1	70.6/35.3	64.1/34.0
L. R. Amperes [A]		367/183	374/187	378/201
LRC [A]		6.3x(Code G)	5.3x(Code E)	5.9x(Code F)
No load current [A	.]	22.8/11.4	22.3/11.2	24.0/12.7
Rated speed [RPI	Л]	3530	2905	2910
Slip [%]		1.94	3.17	3.00
Rated torque [ft.lb]]	37.2	45.2	45.1
Locked rotor torqu		180	150	170
Breakdown torque	: [%]	290	220	240
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
	25%	90.8	92.6	91.9
Efficiency (%)	50%	91.0	91.1	90.9
Lindicity (70)	75%	91.7	90.3	90.6
	100%	91.7	88.5	89.3
	25%	0.46	0.53	0.48
Power Factor	50%	0.73	0.80	0.75
1 OWEN TACKON	75%	0.83	0.87	0.85
	100%	0.87	0.90	0.88

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 422 lb Sealing Without Without Max. compression : 616 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Lubricant amount 8 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 64.3A SF 1.00 SFA 64.3A

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



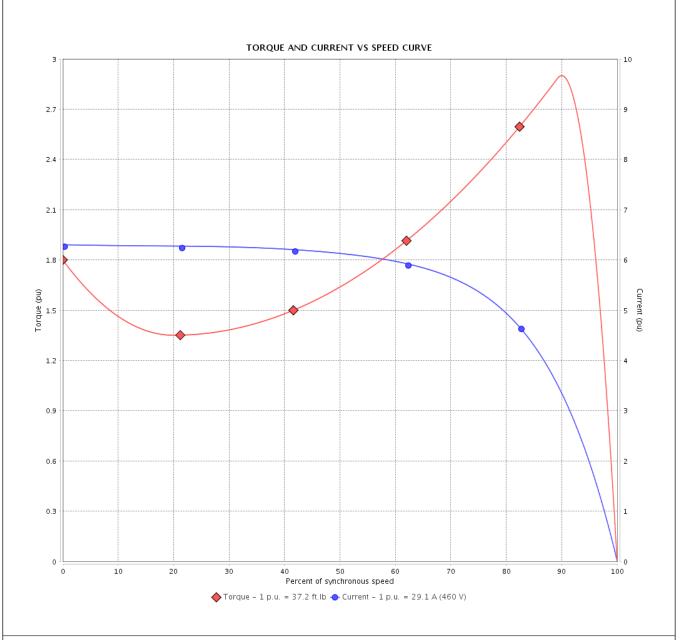
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12707653

Catalog #: 02536OT3E256TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 58.2/29.1 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 37.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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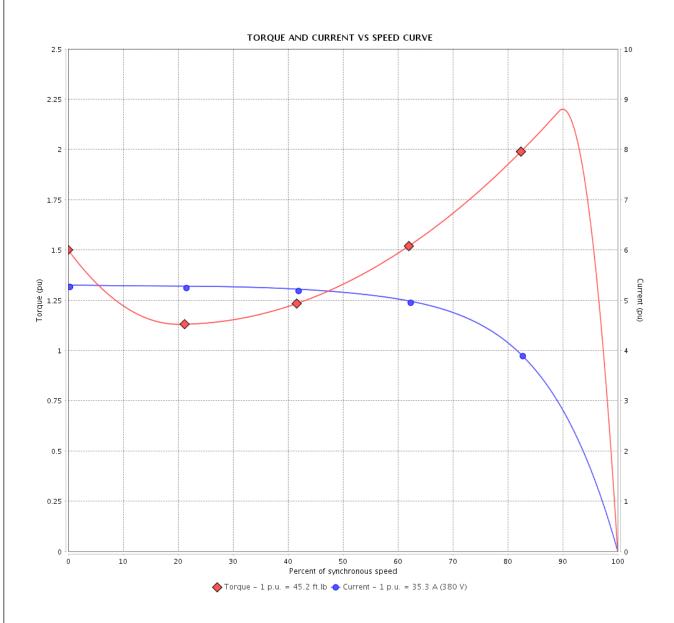
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12707653

Catalog #: 02536OT3E256TC-S



Performance : 190/380 V 50 Hz 2P Rated current : 70.6/35.3 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 45.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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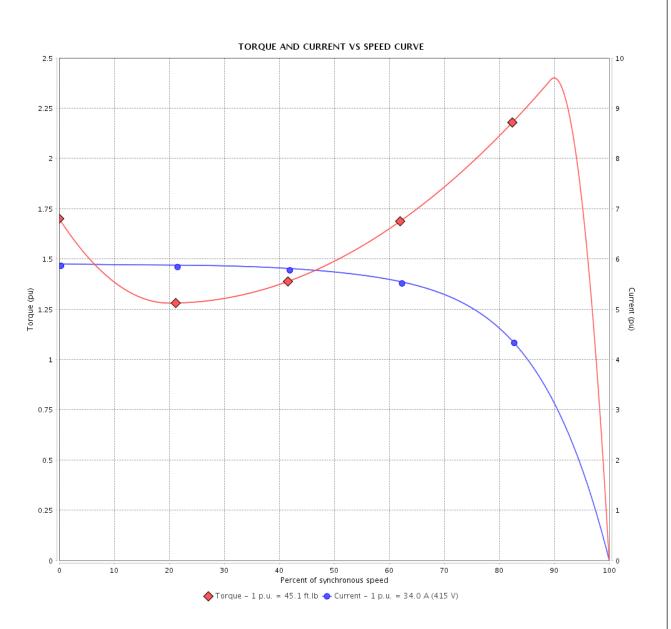
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 02536OT3E256TC-S

12707653



Performance	: 220/415 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 64.1/34.0 A : 5.9 : 45.1 ft.lb : 170 % : 240 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9155 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 0s (cold) 0s (hot)	1		

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LOAD PERFORMANCE CURVE

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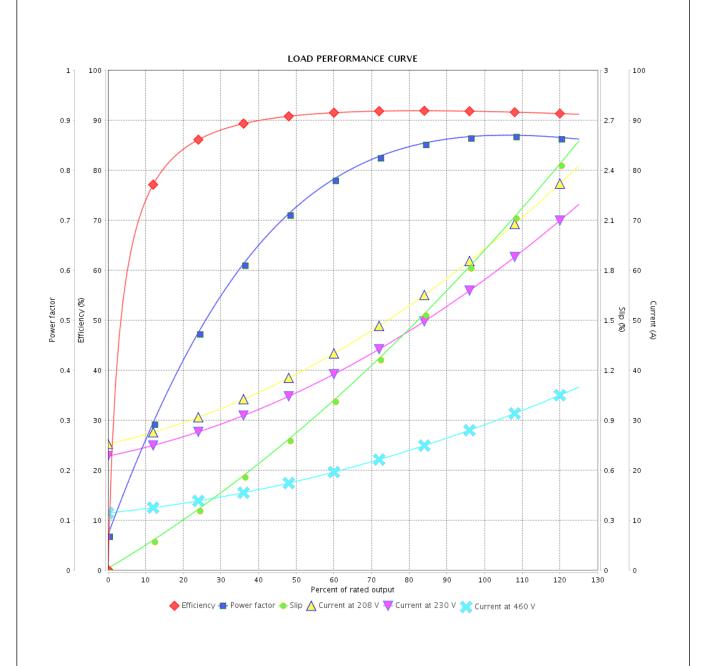


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12707653

Phase

Catalog #: 02536OT3E256TC-S



Performance	: 2:	30/460 V 60 Hz 2P					
Rated current		8.2/29.1 A	Moment o	f inertia (J)	: 0.9155 sq.ft.lb		
LRC	: 6.		Duty cycle	, ,	: Cont.(S1)		
Rated torque		7.2 ft.lb	Insulation		: F		
Locked rotor torque	e : 18	80 %	Service fa	ctor	: 1.15		
Breakdown torque	: 29	90 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 3	: 3530 rpm Des			: B		
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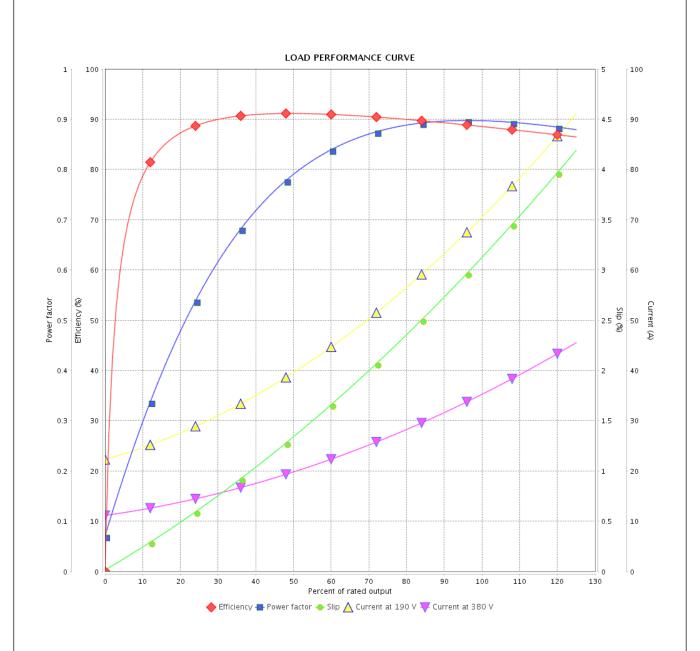
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536OT3E256TC-S

12707653



Performance	:	190/380 V 50 Hz 2F				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	70.6/35.3 A 5.3 45.2 ft.lb 150 % 220 % 2905 rpm	Duty cycle Insulation Service fa	Duty cycle : Insulation class : Service factor : Temperature rise :		lb
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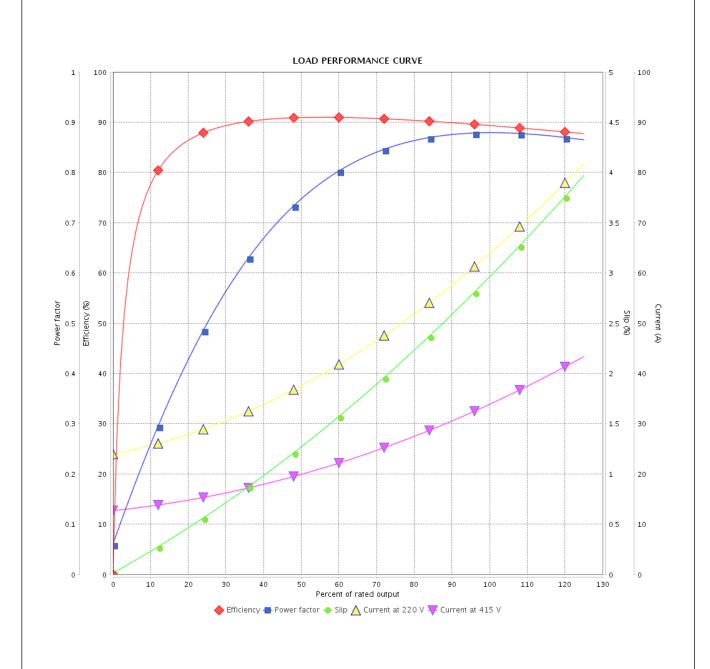


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12707653

Phase

Catalog #: 02536OT3E256TC-S



	·					
Performance	:	220/415 V 50 Hz 2P				
Rated current	:	64.1/34.0 A	Moment o	f inertia (J)	: 0.9155 sq.ft.lb	
LRC	:	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	:	45.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	170 %	Service fa	ctor	: 1.15	
Breakdown torque	:	240 %	1011.		: 80 K : B	
Rated speed	:	2910 rpm				
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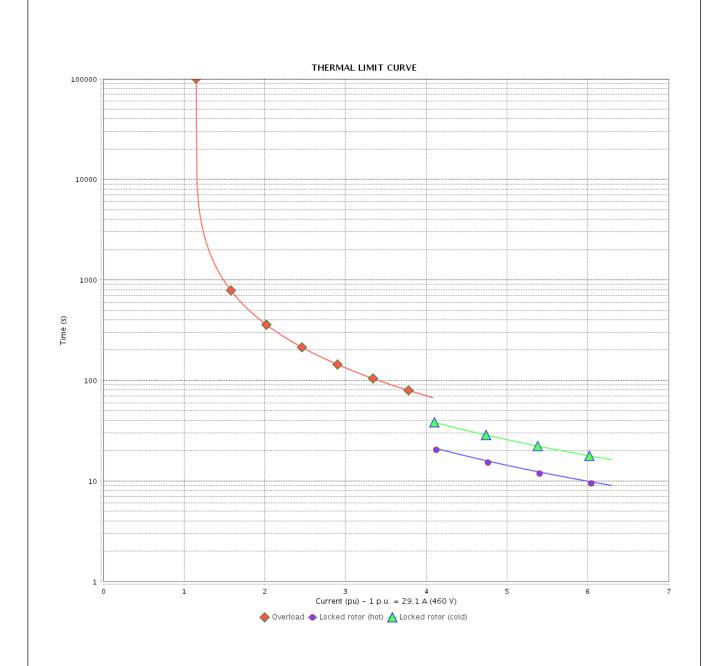


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12707653	
	P	hase		Catalog # :	02536OT3E2	256TC-S
Performance		30/460 V 60 Hz 2P	I			-
Rated current LRC	: 58 : 6.	3.2/29.1 A 3	Moment of Duty cycle	f inertia (J)	: 0.9155 sq.ft.l : Cont.(S1)	b
Rated torque	: 37	7.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 90 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		530 rpm	Design	3 1.00	: B	
Heating constant						
Cooling constant					<u> </u>	
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Three Phase Induction Motor - Squirrel Cage



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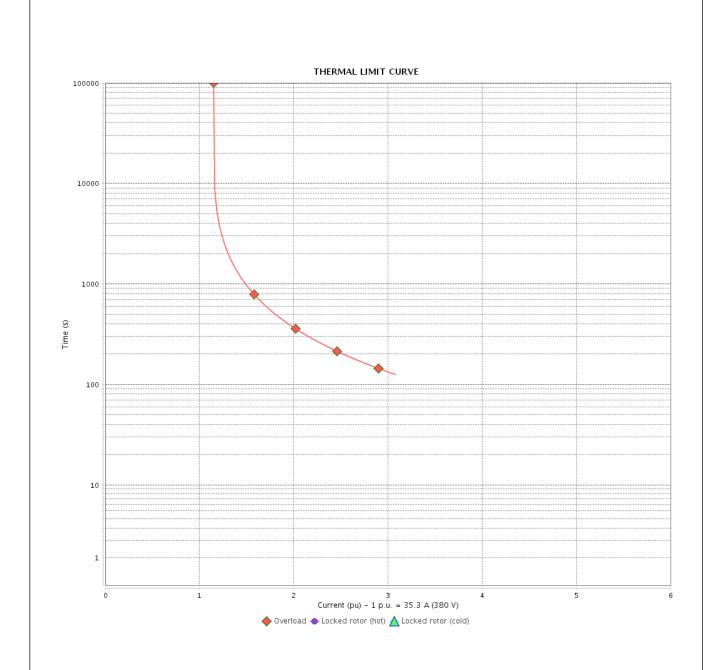


Customer	:	:				
Product line	:	: NEMA Premium Efficiency [·] Phase		Product code : Catalog # :	12707653 02536OT3E	256TC-S
				Catalog # .	02536O13E.	23010-3
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 7 : 4 : 4 : 4 : 4 : 4 : 4 : 4	190/380 V 50 Hz 2P 70.6/35.3 A 5.3 45.2 ft.lb 150 % 220 % 2905 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.9155 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb Date
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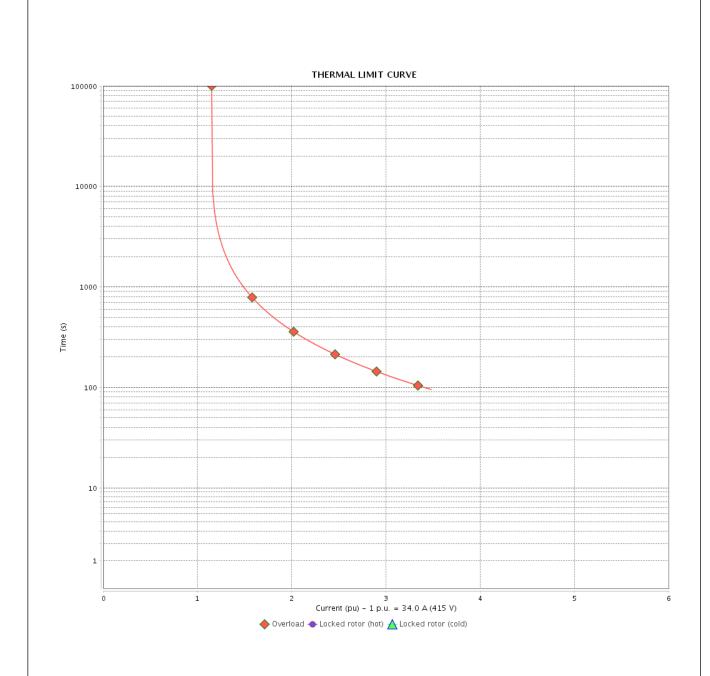


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12707653	
		Phase		Catalog # :	02536OT3E2	DESTC C
					0200001022	
Performance		: 220/415 V 50 Hz 2P				
Rated current		: 64.1/34.0 A	Moment of	of inertia (J)	: 0.9155 sq.ft.l	b
LRC Rated torque		: 5.9 : 45.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 170 %	Service fa	actor	: 1.15	
Breakdown torqu		: 240 %	Temperat	ure rise	: 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



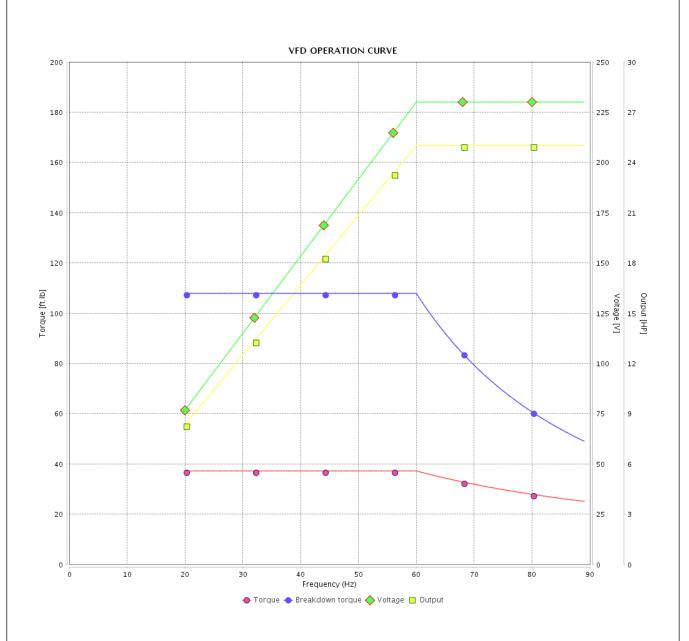
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12707653

Catalog #: 02536OT3E256TC-S

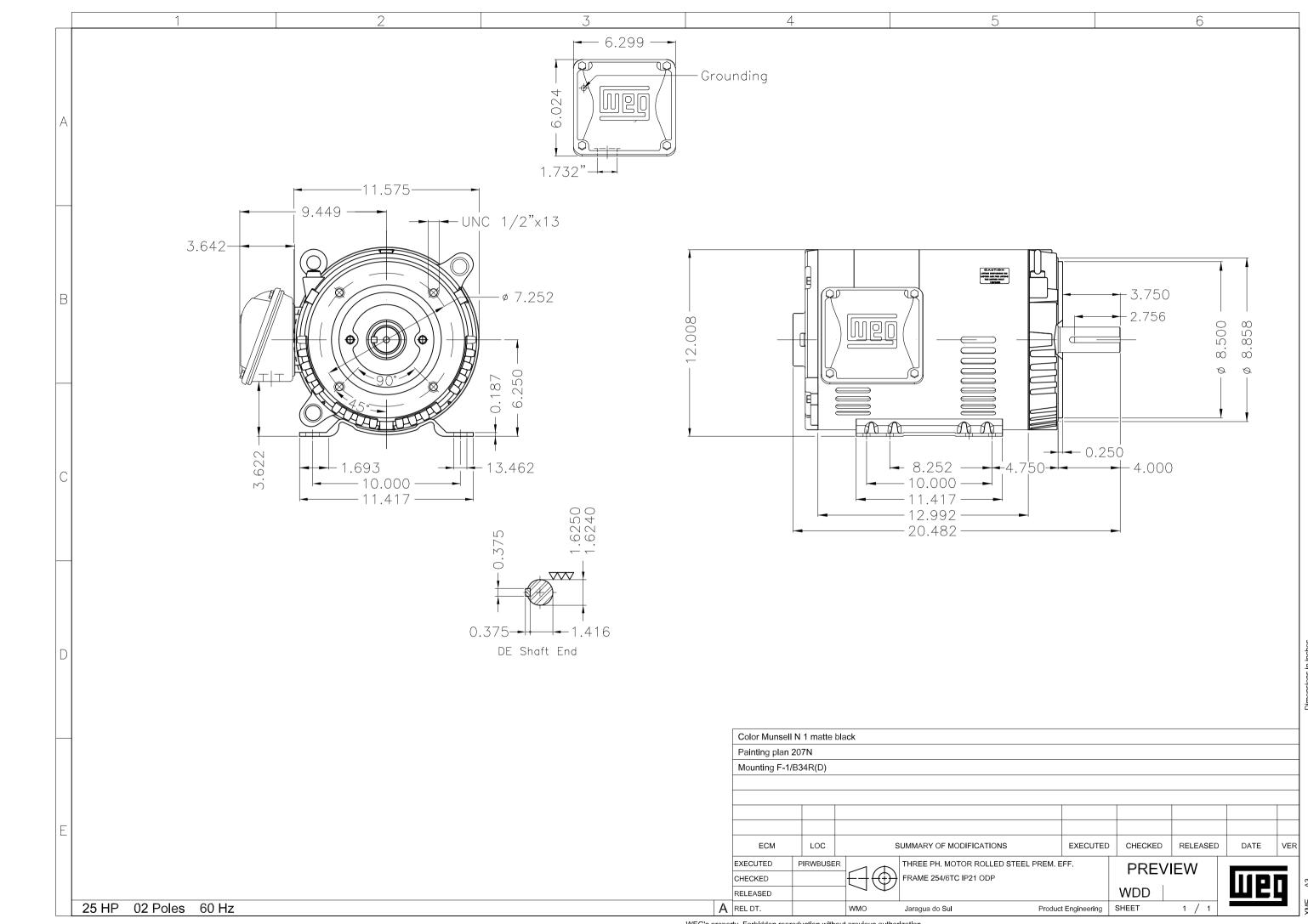


Performance	: 230/460 V 60 Hz 2P				
Rated current	: 58.2/29.1 A	Moment of inertia (J)		: 0.9155 sq.ft.lb	
_RC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 37.2 ft.lb	Insulation class		:F	
ocked rotor torque	: 180 %	Service factor Temperature rise		: 1.15 : 80 K	
Breakdown torque	: 290 %				
Rated speed	: 3530 rpm	Design		: B	
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