DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Output [HP]

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12751161

5

Catalog #: 00536ET3E184T-S

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 82.1 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 0.2079 sq.ft.lb

: B Design

5

Output [HP]		5	5	5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		11.8/5.90	14.3-12.4/7.17	6.59
L. R. Amperes [A]		92.0/46.0	91.8-79.3/45.9	50.7
LRC [A]		7.8x(Code J)	6.4x(Code G)	7.7x(Code J)
No load current [A]	4.40/2.20	4.34-3.75/2.17	2.45
Rated speed [RPN	/ []	3500	2860	2885
Slip [%]		2.78	4.67	3.83
Rated torque [ft.lb]		7.50	9.18	9.10
Locked rotor torqu	e [%]	220	180	220
Breakdown torque	[%]	300	250	300
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		30s (cold) 17s (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%	0.000		
Efficiency (%)	50%	87.5	88.1	88.0
Elliciency (70)	75%	88.5	87.3	88.1
100%		88.5	85.2	86.8
	25%	0.00		
Power Factor	50%	0.76	0.82	0.76
1 OWEI I ACIOI	75%	0.85	0.89	0.86
	100%	0.89	0.92	0.90

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6205 ZZ Max. traction : 133 lb Sealing V'Ring Without Max. compression : 215 lb

Bearing Seal

Lubrication interval Lubricant amount Lubricant type

Mobil Polyrex EM

Notes

USABLE @208V 13.1A SF 1.00 SFA 13.1A

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



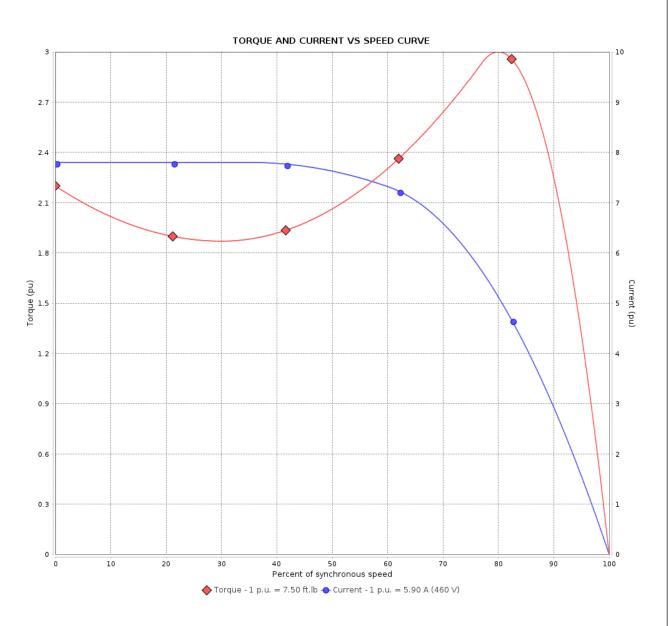
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 230/460 V 60 Hz 2P Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 7.50 ft.lb Insulation class Rated torque : 220 % Service factor Locked rotor torque : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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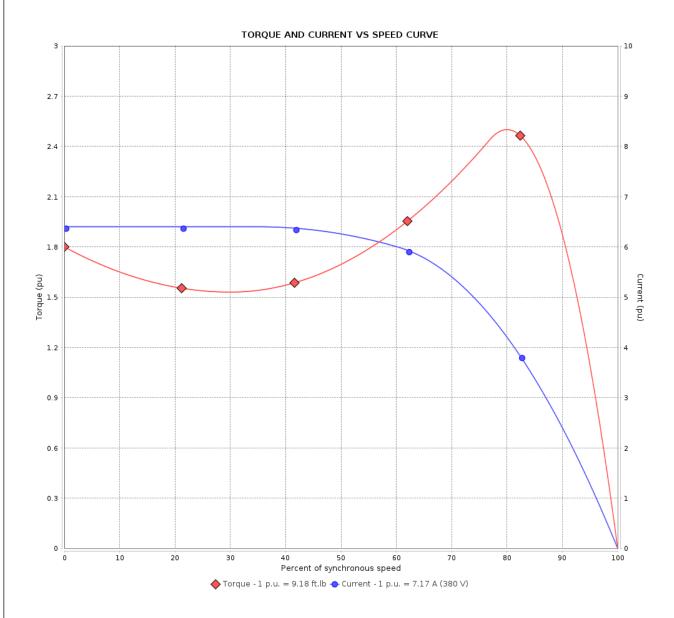
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Product line : Rolled Steel NEMA Premium Efficiency

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Performance : 190-220/380 V 50 Hz 2P Rated current : 14.3-12.4/7.17 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.18 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2860 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



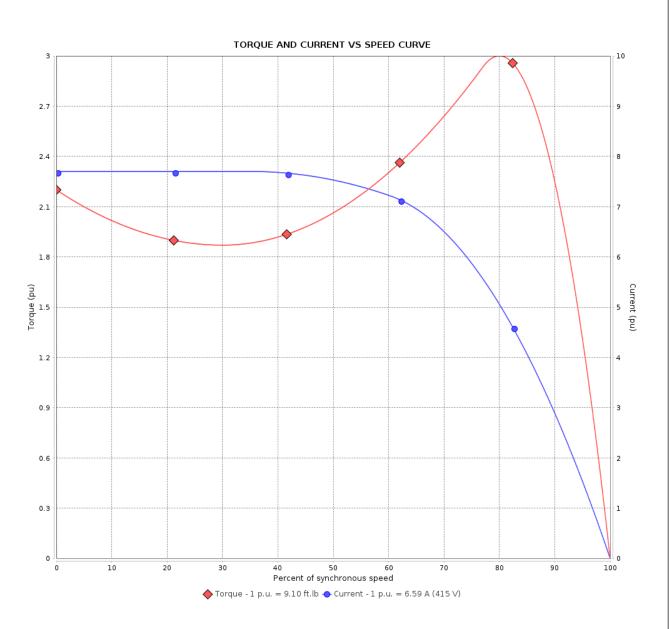
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 415 V 50 Hz 2P Rated current : 6.59 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 9.10 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 300 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



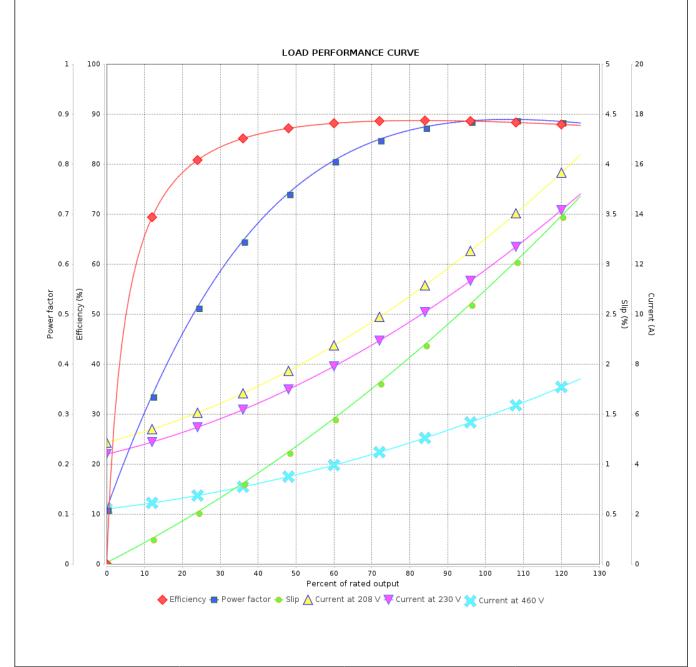
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Performance	erformance : 230/460 V 60 Hz 2P					
Rated current : 11.8/5.9		11.8/5.90 A	Moment of inertia (J)		: 0.2079 sq.ft.lb	
LRC	:	7.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	7.50 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	220 %	Service fa	ctor	: 1.15	
Breakdown torque	e :	300 %	Temperati	Temperature rise		
Rated speed	:	3500 rpm	Design		: B	
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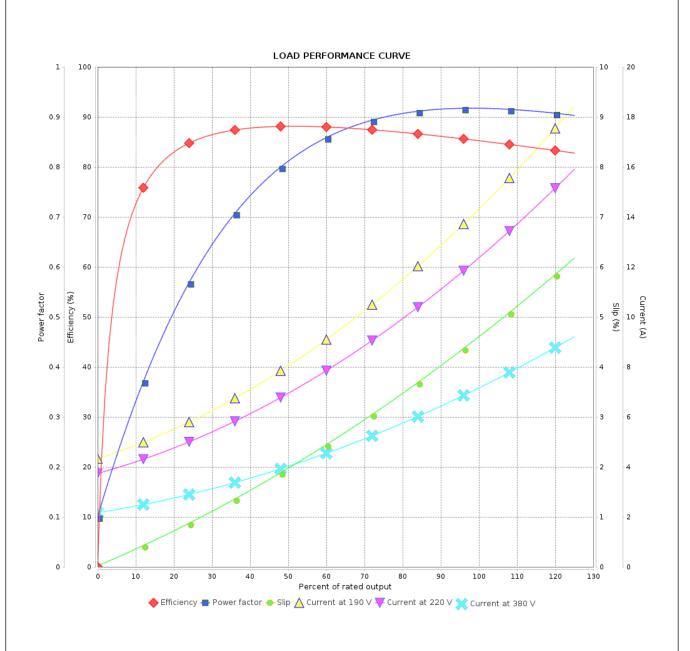
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Product code: 12751161

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Performance	: 190-220/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3-12.4/7.17 A : 6.4 : 9.18 ft.lb : 180 % : 250 % : 2860 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2079 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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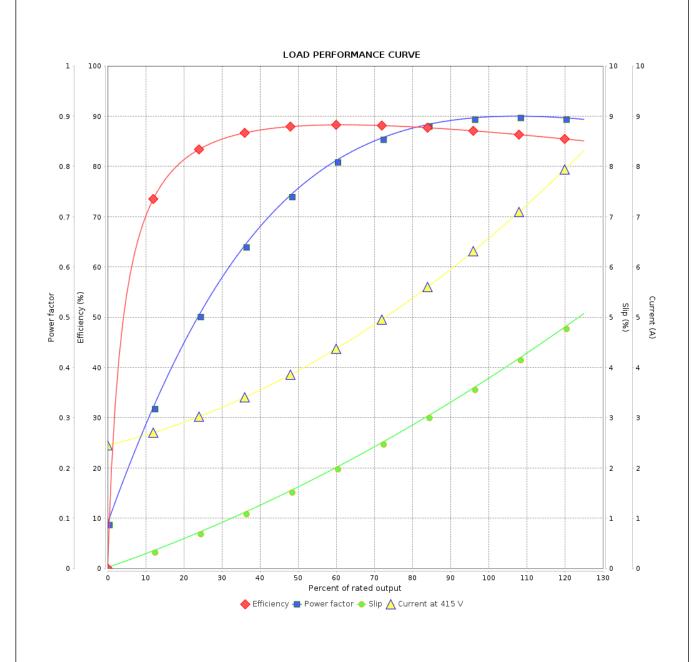
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Performance	erformance : 415 V 50 Hz 2P					
Rated current	: 6	.59 A	Moment o	f inertia (J)	: 0.2079 sq.ft.lb	
LRC	: 7	.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 9	.10 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	00 %	Temperature rise		: 105 K	
•		885 rpm	Design		: B	
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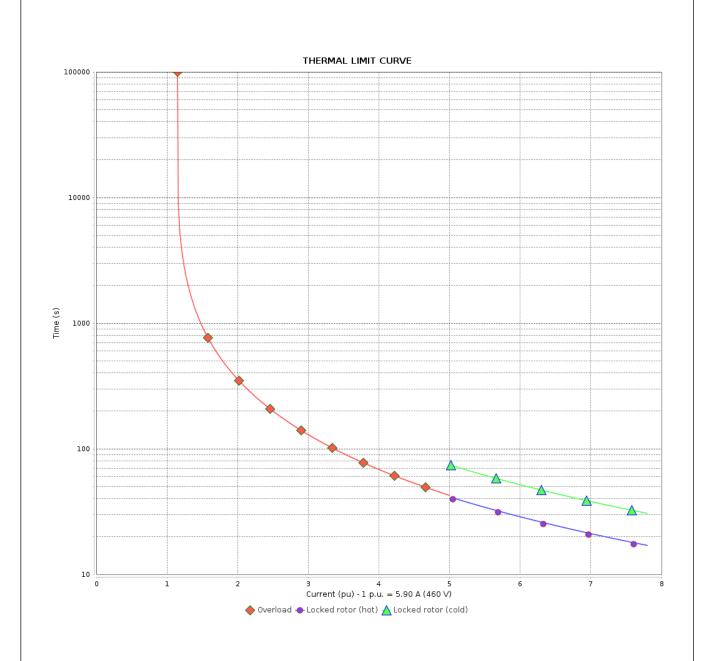


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Customer	:					
Product line	: Rolled Ste Three-Phas	el NEMA Premium Efficie e		Product code :	12751161	
			1	Catalog # :	00536ET3E1	184T-S
Performance	: 23	0/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 11. : 7.8 : 7.5 que : 22 ue : 30	8/5.90 A 60 ft.lb 0 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2079 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constan		•				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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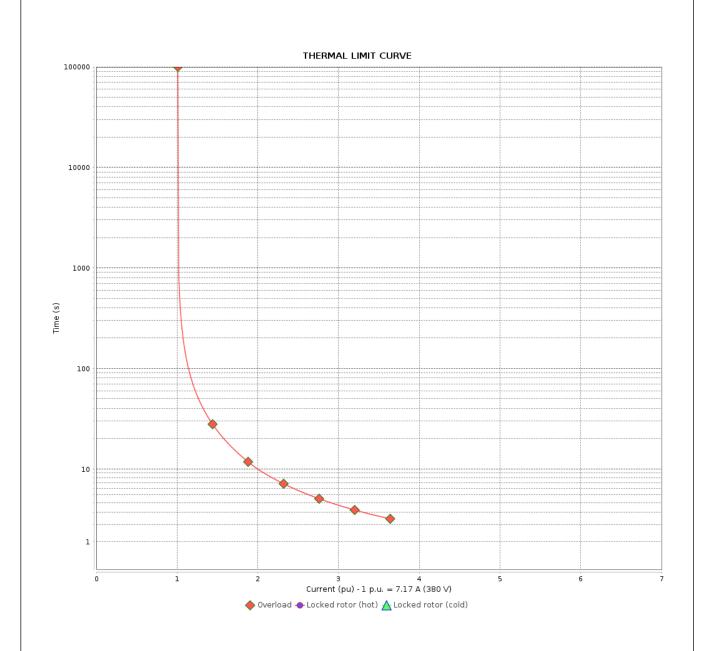


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Ousionici	•				
Product line	: Rolled Steel NEMA Premium Efficier Three-Phase	ncy I	Product code :	12751161	
	Tillee-Filase	(Catalog # :	00536ET3E18	34T-S
Performance Rated current	: 190-220/380 V 50 Hz 2P : 14.3-12.4/7.17 A	Moment	finertia (I)	· 0 2070 ca # III	
LRC	: 14.3-12.4/7.17 A : 6.4	Moment of Duty cycle	ı menua (J)	: 0.2079 sq.ft.lk : Cont.(S1))
Rated torque	: 9.18 ft.lb	Insulation	class	: F	
Locked rotor torque	: 180 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed	: 250 % : 2860 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant					
Cooling constant		ı			
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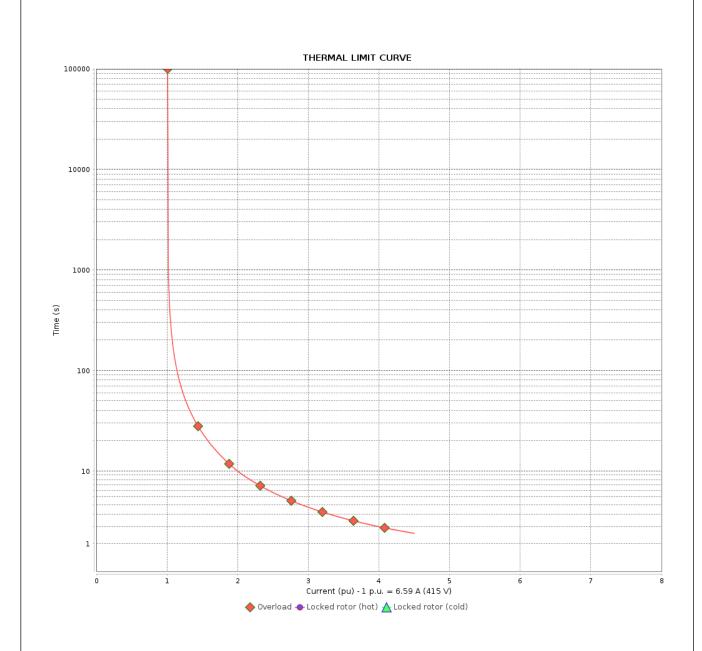


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Customer	:					
Product line	: Rolled Steel NEMA Premium Effici Three-Phase			12751161		
			Catalog # :	00536ET3E1	184T-S	
Performance	: 415 V 50 Hz 2P					
Rated current	: 6.59 A		f inertia (J)	: 0.2079 sq.ft.	b	
LRC Rated torque	: 7.7 : 9.10 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor tord	que : 220 %	Service fa		: 1.00		
Breakdown torqu	ue : 300 %	Temperatu	ıre rise	: 105 K		
Rated speed	: 2885 rpm	Design		: B 		
Heating constant						
Cooling constant			Dorf	Ohl !	D-4-	
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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

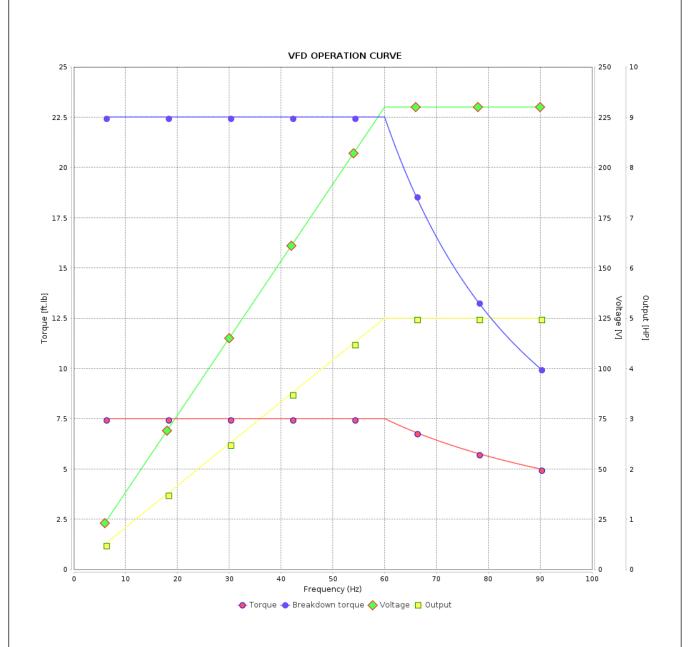
27/10/2023

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 230/460 V 60 Hz 2P : 11.8/5.90 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 7.50 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 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



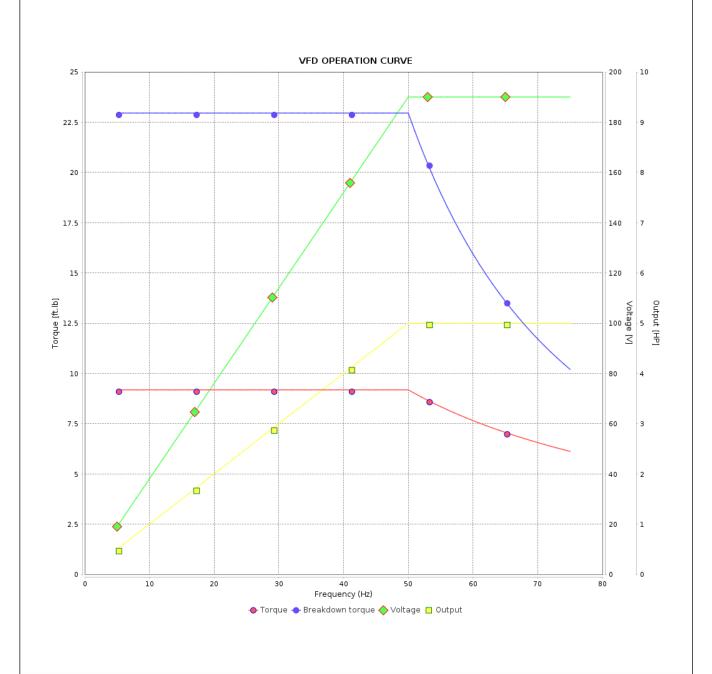
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Performance		: 190-220/380 V 50 Hz 2P					
Rated current		: 14.3-12.4/7.17 A	Moment of	Moment of inertia (J)		: 0.2079 sq.ft.lb	
LRC		: 6.4	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		: 9.18 ft.lb	Insulation	Insulation class		:F	
Locked rotor torque		: 180 %	Service fa	Service factor		: 1.00	
Breakdown torque	е	: 250 %	Temperati	Temperature rise		: 105 K	
Rated speed		: 2860 rpm	Design		: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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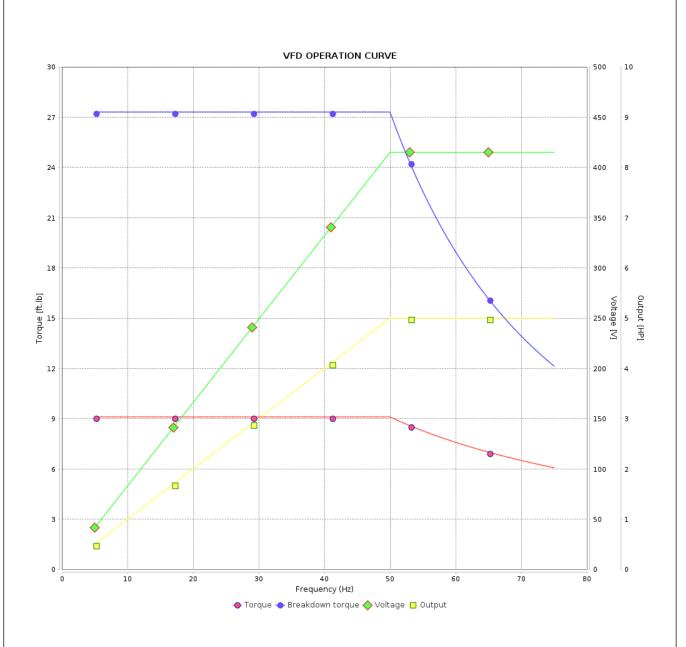
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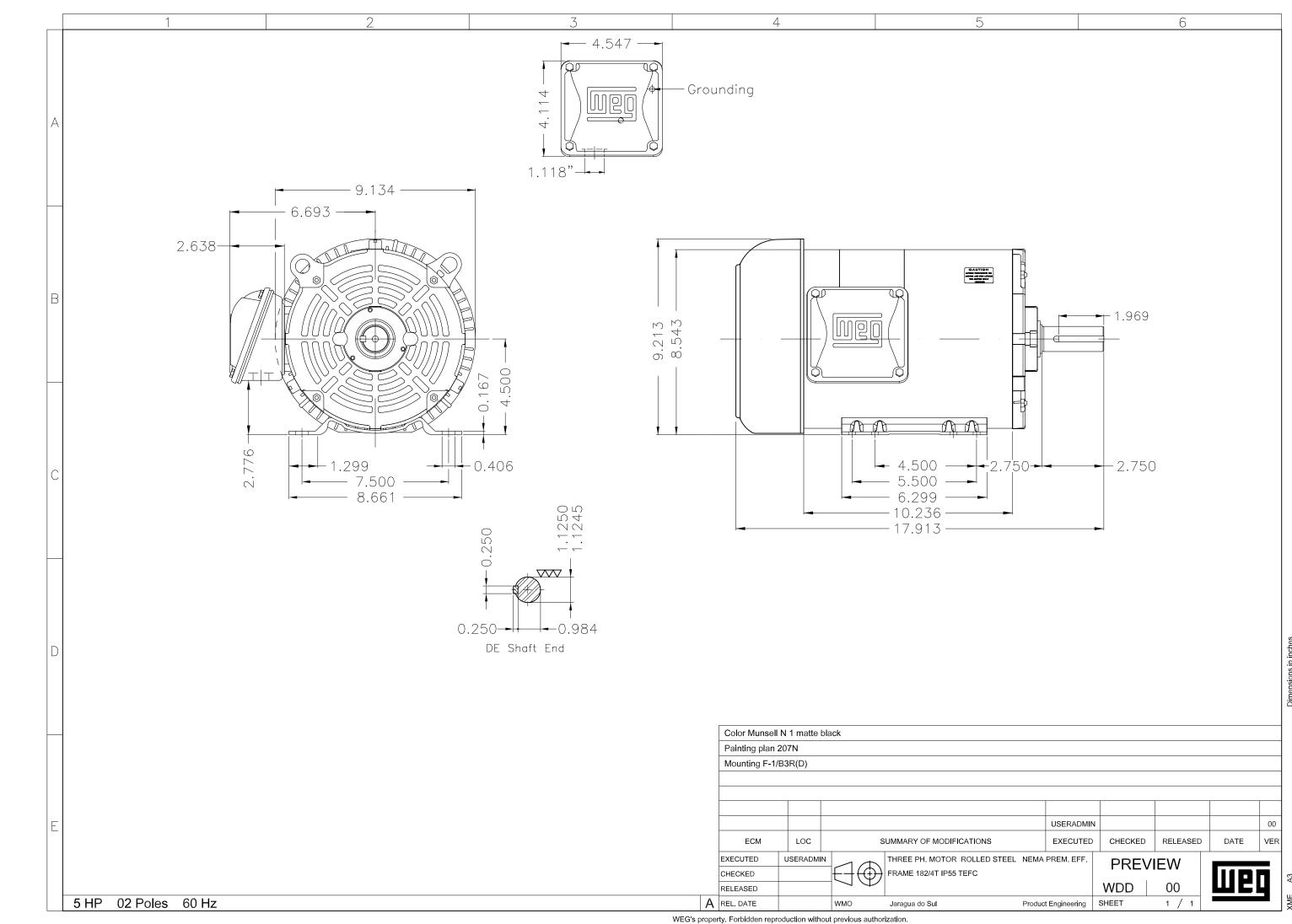
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UL) US LISTED 3PT9 FOR SAFE

& Energy Verifi 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)

MODEL 00536ET3E184T-S S/N N01.TE0IC0X0N 12751161 190CT2023

Hz 60 182/4T CONT

P55 SH 1000 m.a.s.l F AT 80K

NSC NCL WB

11.8/5.90 13.6/6.79

230/460 1.15

CODE

TEFC 2°04

SPM 3FA 냃 쌆

> 14.3-12.4/7.17-6.59A ALTERNATE RATING:

50 Hz

IEC 60034-1

SF1.00

190-220/380-415V

88.5%

NOM EFF NEMA 2880RPM

EFF 85.2%

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT ODE 8205-22 5.0HP

8206-ZZ

牌

MOBIL POLYREX EM

HEIH

T2-WHT

1-BLU

r3-org 7-PNK 15-BLK

T6-GRY T8-RED T4-YEL

T9-RED

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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

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

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical