DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12675365

Catalog #: 00518ET3E184TC-S

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

Insulation class : F 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 : 83.7 lb Altitude

/ tititude		. 1000 111.4.5.1.	Approx. Weight	. 00.7 10
Protection degree		: IP55	Moment of inertia (J)	: 0.3080 sq.ft.lb
Design		: B		
Output [HP]		5	5	5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		13.0/6.49	15.8-13.6/7.88	7.47
L. R. Amperes [A]		90.9/45.4	91.4-78.9/45.7	50.8
LRC [A]		7.0x(Code J)	5.8x(Code G)	6.8x(Code J)
No load current [A]	6.89/3.44	6.74-5.82/3.37	4.16
Rated speed [RPN	/ []	1750	1425	1440
Slip [%]		2.78	5.00	4.00
Rated torque [ft.lb]]	15.0	18.4	18.2
Locked rotor torqu	e [%]	220	170	220
Breakdown torque	[%]	300	229	290
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		28s (cold) 16s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%			
Efficiency (%)	50%	88.5	87.9	86.5
Efficiency (%)	75%	89.5	87.2	87.2
	100%	89.5	84.9	86.1
	25%			
Power Factor	50%	0.60	0.68	0.59
Fower Factor	75%	0.73	0.80	0.73
	100%	0.80	0.84	0.80

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6205 ZZ Max. traction : 296 lb Without Sealing V'Ring Max. compression : 380 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 14.4A SF 1.00 SFA 14.4A

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



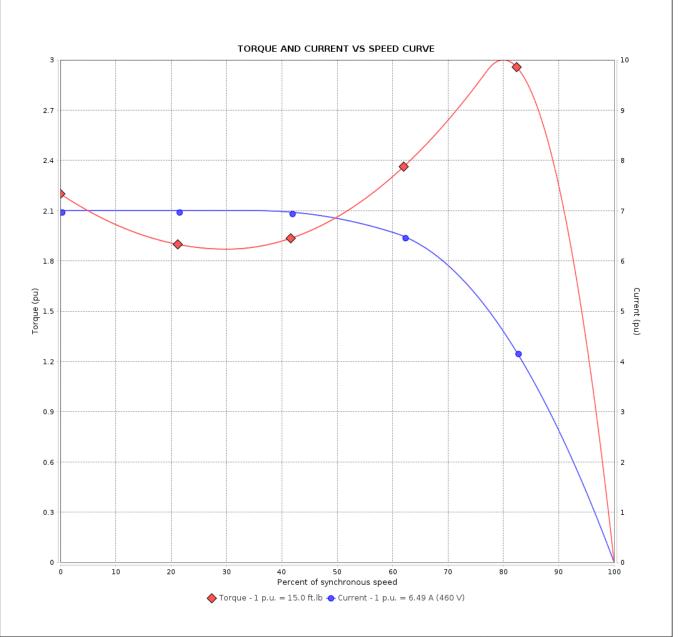
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12675365

Catalog #: 00518ET3E184TC-S



Performance : 230/460 V 60 Hz 4P Rated current : 13.0/6.49 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F : 15.0 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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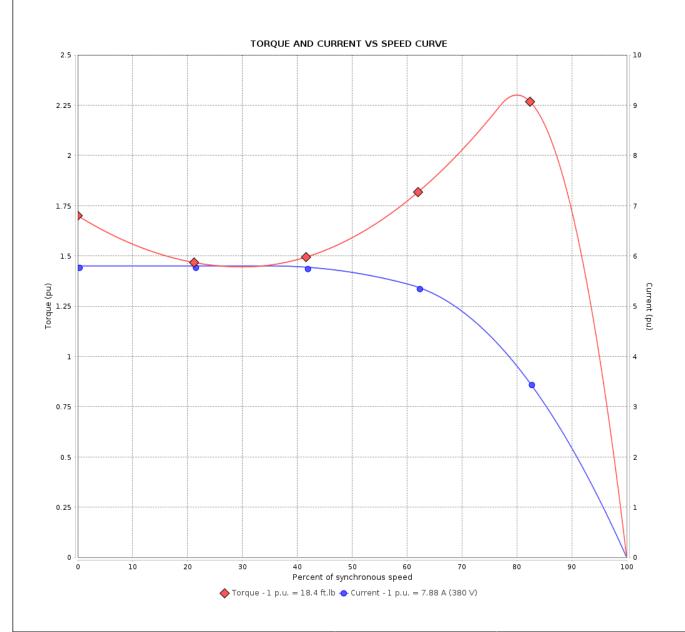
Three-Phase

Product code :

12675365

Catalog #:

00518ET3E184TC-S



Performance : 190-220/380 V 50 Hz 4P Rated current : 15.8-13.6/7.88 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 18.4 ft.lb Insulation class : F Rated torque : 170 % Locked rotor torque Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



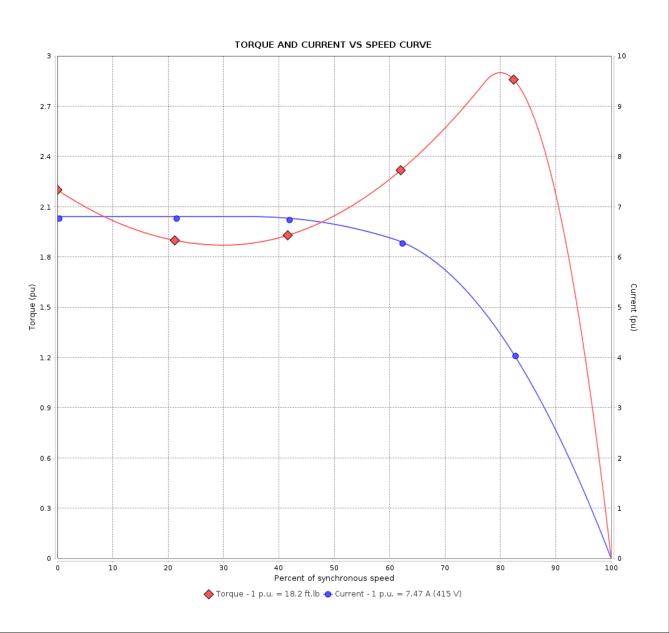
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12675365

Catalog #: 00518ET3E184TC-S



Performance : 415 V 50 Hz 4P Rated current : 7.47 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.2 ft.lb : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 290 % Temperature rise : 105 K Rated speed : 1440 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



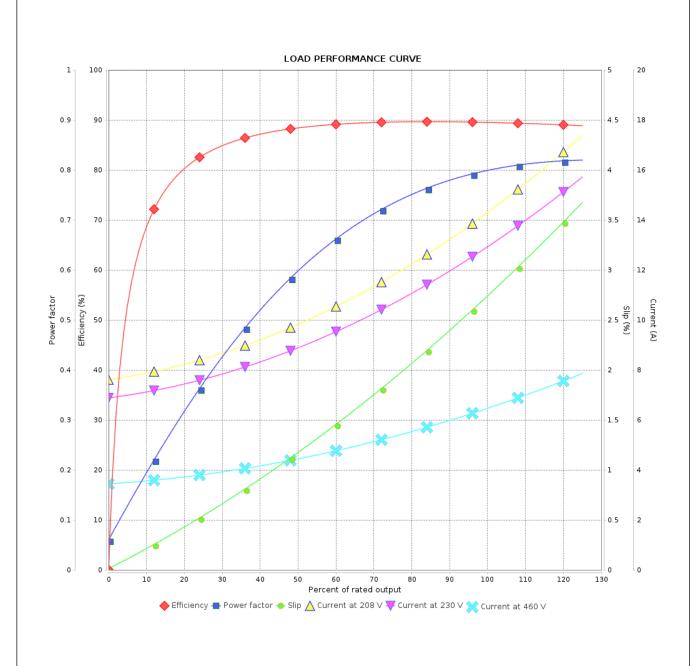
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Performance	: 23	: 230/460 V 60 Hz 4P				
LRC : Rated torque :		.0/6.49 A Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.15		
Breakdown torque Rated speed		0 % Temperature rise Design		: 80 K : B		
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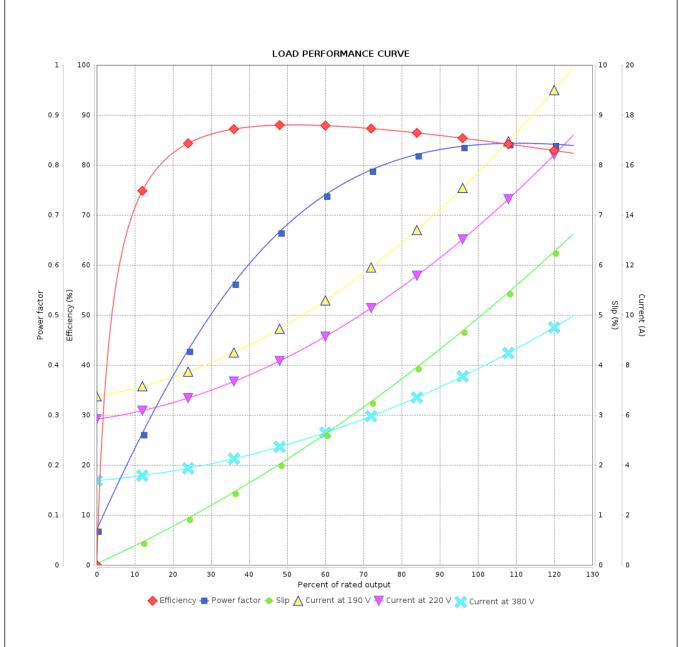
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Performance	: 190-220/380 V 50 Hz 4P	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.8-13.6/7.88 A : 5.8 : 18.4 ft.lb : 170 % : 229 % : 1425 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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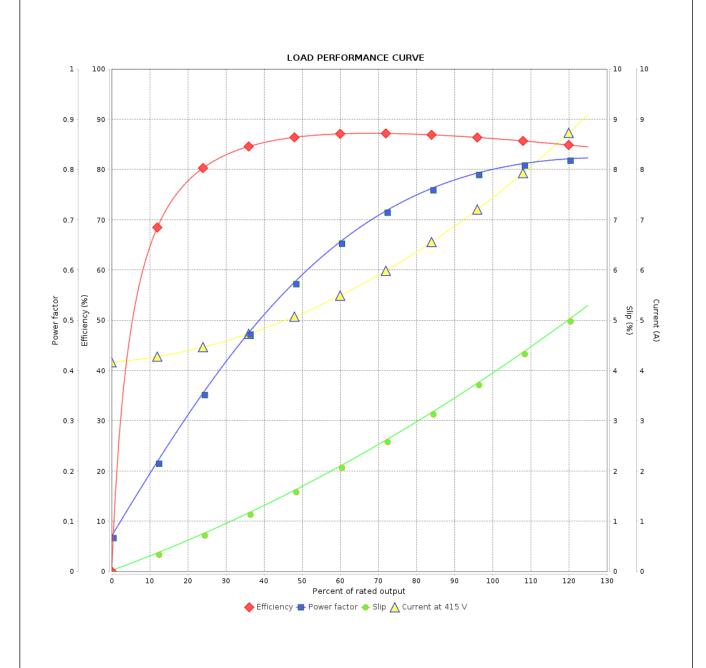
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Three-Phase

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Catalog # : 00518ET3E184TC-S



Performance	: 4	15 V 50 Hz 4P				
Rated current	: 7.47 A		Moment o	Moment of inertia (J)		lb
LRC	: 6	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	8.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	· · · · · · · · · · · · · · · · · · ·		emperature rise : 105 K			
Rated speed : 1440 rpm		440 rpm	Design		: B	
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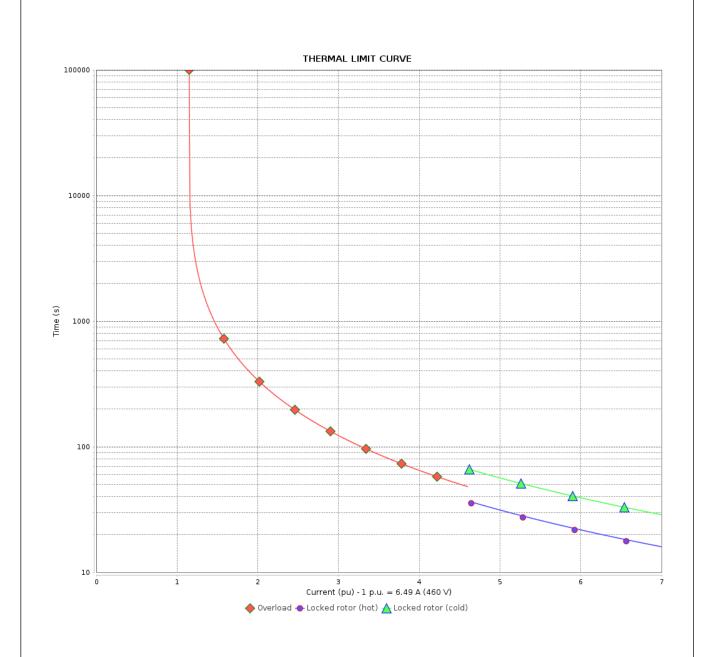


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Product line	: Rolled Steel NEMA Premium Efficier	ncy I	Product code :	12675365	
	Three-Phase	(Catalog # :	00518ET3E1	84TC-S
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 13.0/6.49 A	Moment of	f inertia (J)	: 0.3080 sq.ft.	b
LRC Rated torque	: 7.0 : 15.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 300 %	Temperatu	ire rise	: 80 K : B	
	: 1750 rpm	Design		. D	
Heating constant Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

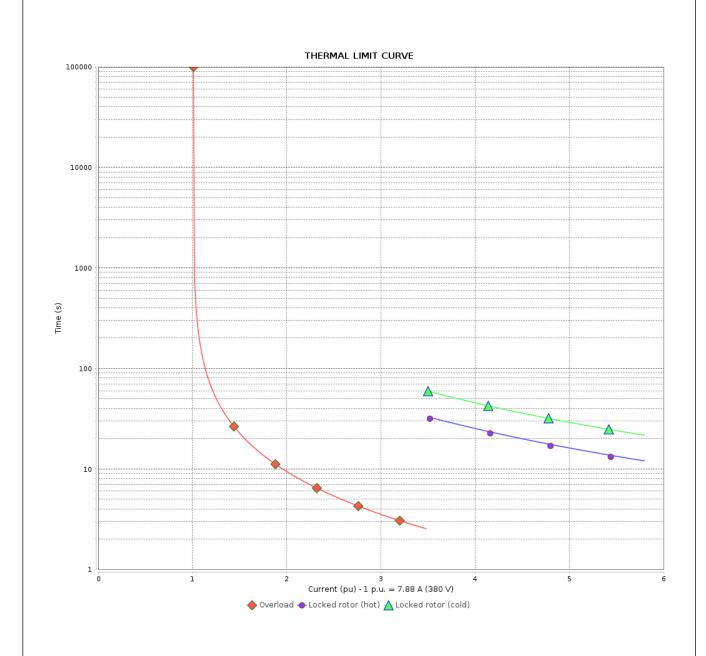


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Product line	: Rolled St Three-Pha	eel NEMA Premium Efficie	ncy I	Product code :	12675365	
	111100 1 110		(Catalog # :	00518ET3E	184TC-S
Performance	: 19	90-220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 18 ue : 17 e : 22	5.8-13.6/7.88 A 8 3.4 ft.lb 70 % 29 % 425 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.3080 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	.lb
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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

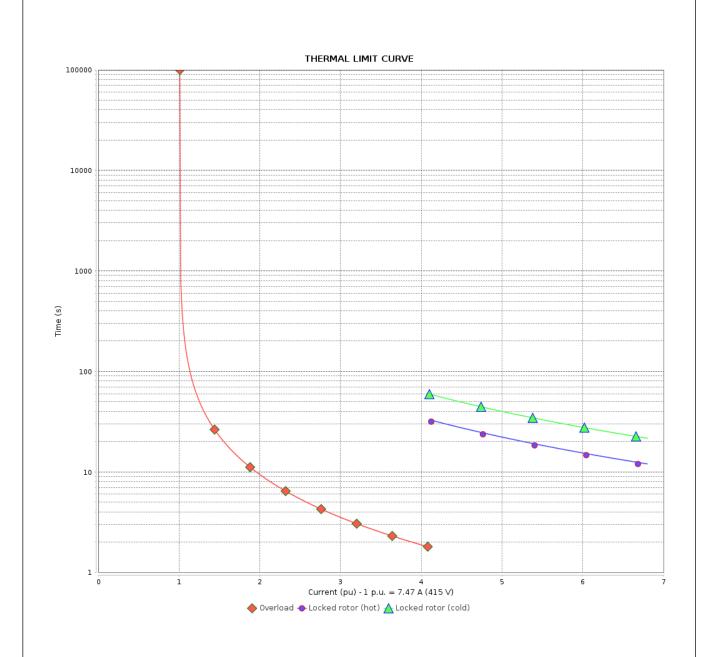


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Customer	:					
Product line	: Rolled Steel Three-Phase	NEMA Premium Efficie		Product code :	12675365	
			(Catalog # :	00518ET3E ²	84TC-S
Performance	· 415 \	/ 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 7.47 : 6.8 : 18.2 que : 220	A ft.lb %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3080 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
		•				
Heating constant Cooling constant						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

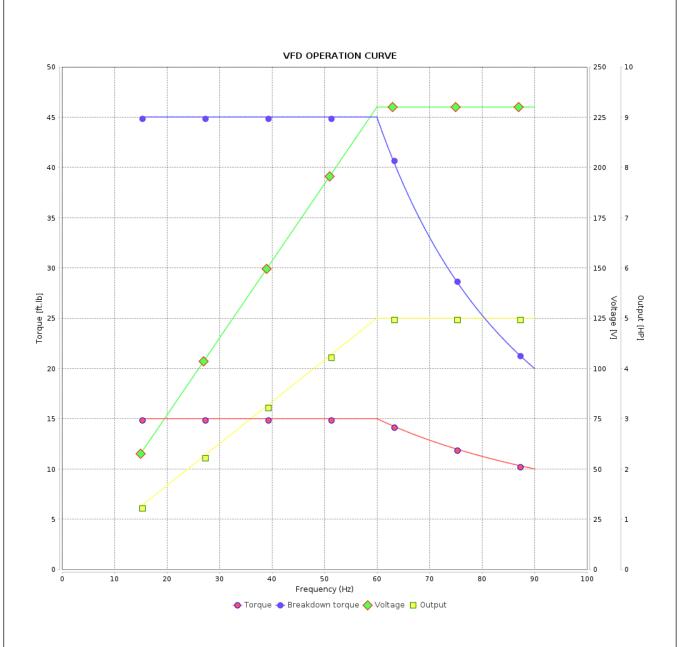
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Three-Phase

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Performance	:	: 230/460 V 60	Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 13.0/6.49 A : 7.0 : 15.0 ft.lb : 220 % : 300 % : 1750 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3080 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	lb
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



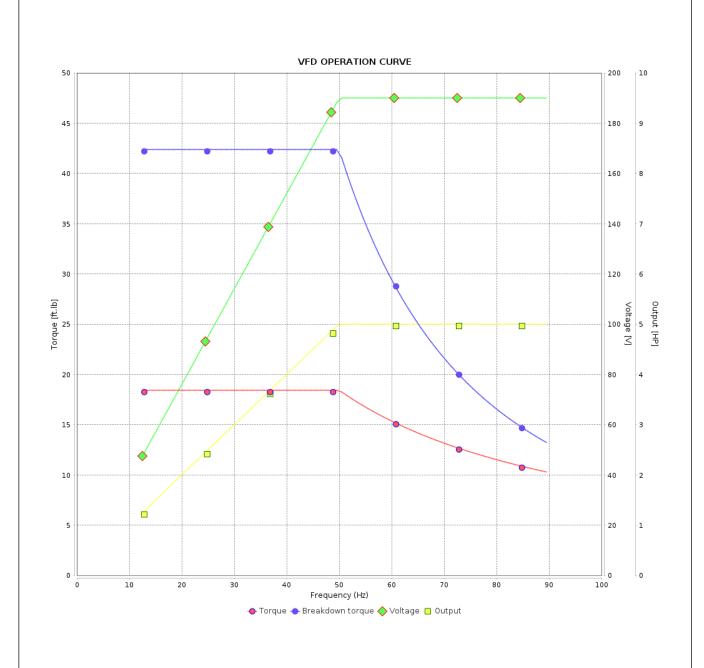
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Performance	mance : 190-220/380 V 50 Hz 4P						
Rated current :		5.8-13.6/7.88 A	Moment o	Moment of inertia (J)		: 0.3080 sq.ft.lb	
LRC	: 5	.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1	18.4 ft.lb Insulation Service fac		class	: F : 1.00		
Locked rotor torqu	ue : 1			ctor			
Breakdown torque	e : 2	29 %	Temperati	ıre rise	: 105 K		
Rated speed	: 1	425 rpm	Design		: B		
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VFD OPERATION CURVE

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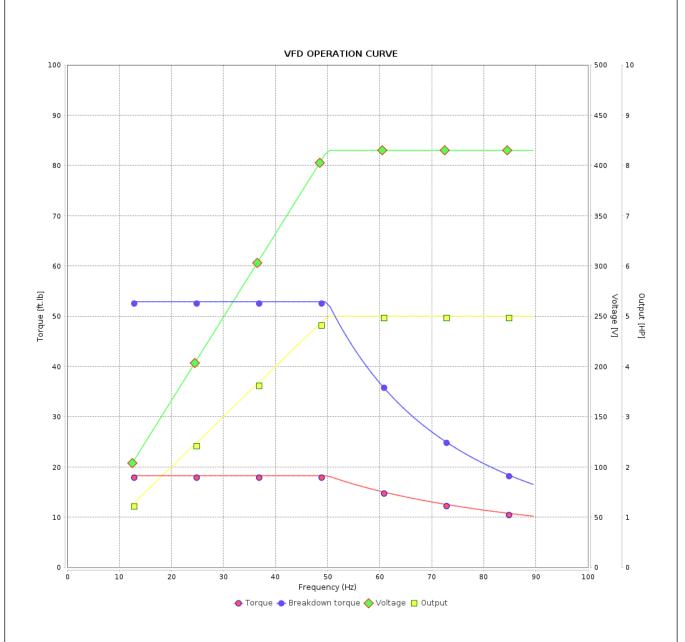
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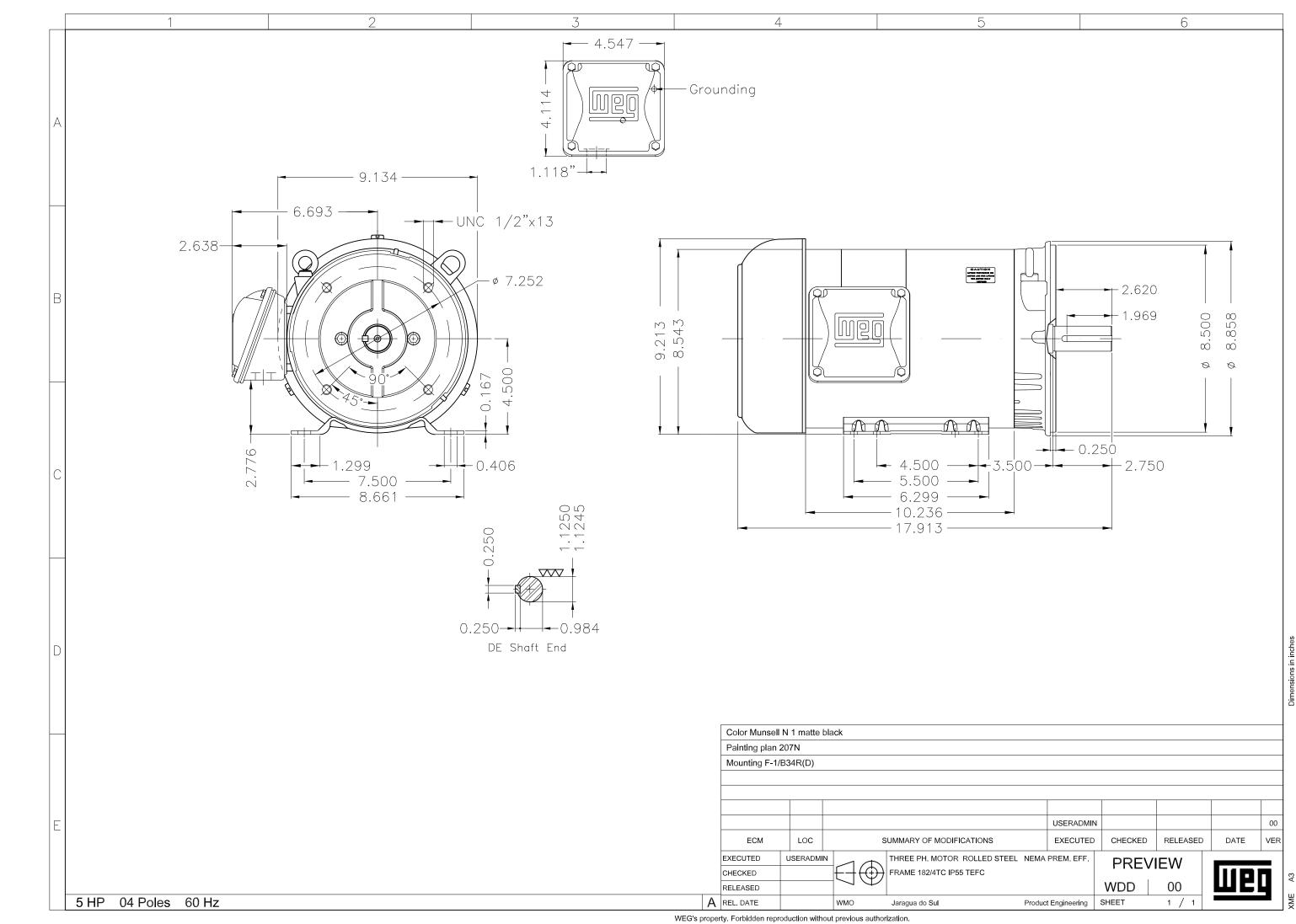


Performance	: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.47 A : 6.8 : 18.2 ft.lb : 220 % : 290 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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NEX

Energy Verified

UL) US LISTED

AREA FOR SAFE

3PT9

MODEL 00518ET3E184TC-S W01.TEOICOXON 12675365

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 걒 182/4TC

13.0/6.49 14.9/7.46

1000 m.a.s.l

CONT

F AT 80K

NSC INC.

WB

230/460

P55 CODE SH

> TEFC 2°04

15

5.0HP 15.8-14.17.88-7.47A

SPM 3FA 냃 쌆

ALTERNATE RATING:

NEMA 1425RPM 50 Hz

89.5% NOM EFF

IEC 60034-1

SF1.00

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

EFF 84.9%

ODE 8205-22

8206-ZZ

牌

T2-WHT

1-BLU 15-BLK

T4-YEL

HEIH

MOT

r3-org







T9-RED 7-PNK

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. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

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