DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13163347

Phase

Catalog #: 00518OT3E184TC-SG Frame : 182/4TC Cooling method : IC01 - ODP 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 90.5 lb Design : B Moment of inertia (J) : 0.4003 sq.ft.lb Output [HP] 5 5 5 Poles 4 4 50 Frequency [Hz] 60 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 12.7/6.33 15.4/7.71 13.8/7.32 L. R. Amperes [A] 91.2/45.6 89.4/44.7 89.8/47.6 LRC [A] 7.2x(Code J) 5.8x(Code G) 6.5x(Code H) No load current [A] 6.29/3.15 6.19/3.10 6.38/3.38 Rated speed [RPM] 1760 1445 1450 Slip [%] 2.22 3.67 3.33 Rated torque [ft.lb] 14.9 18.2 18.1 Locked rotor torque [%] 200 140 160 Breakdown torque [%] 310 220 250 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 21s (cold) 12s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 87.5 90.4 89.3 50% 88.5 88.2 87.9 Efficiency (%) 75% 88.5 87.3 87.6 100% 89.5 84.8 85.8 25% 0.38 0.44 0.40

0.71

0.82

0.86

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 244 lb Sealing : Without Without Max. compression : 334 lb

Bearing Seal Bearing Seal

0.63

0.76

0.82

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 14.0A SF 1.00 SFA 14.0A

50%

75%

100%

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.

0.67

0.79

0.85

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

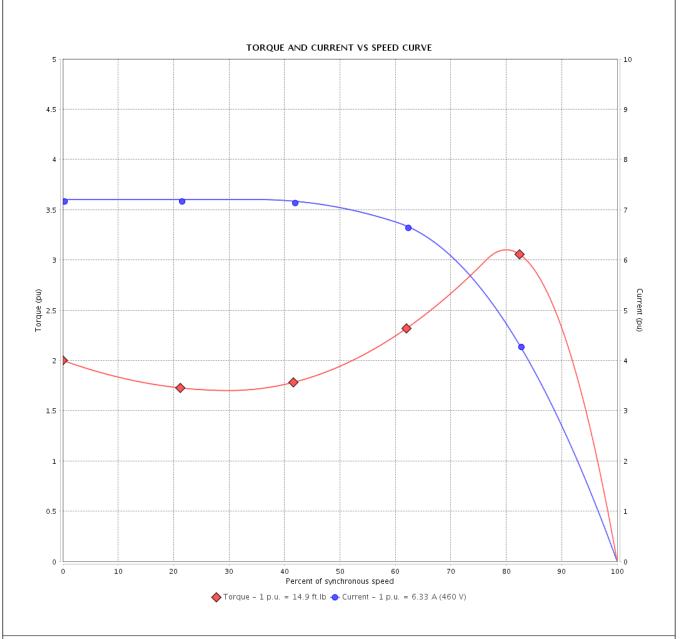


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13163347

Phase

Catalog #: 00518OT3E184TC-SG



Performance : 230/460 V 60 Hz 4P Rated current : 12.7/6.33 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque : 200 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 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

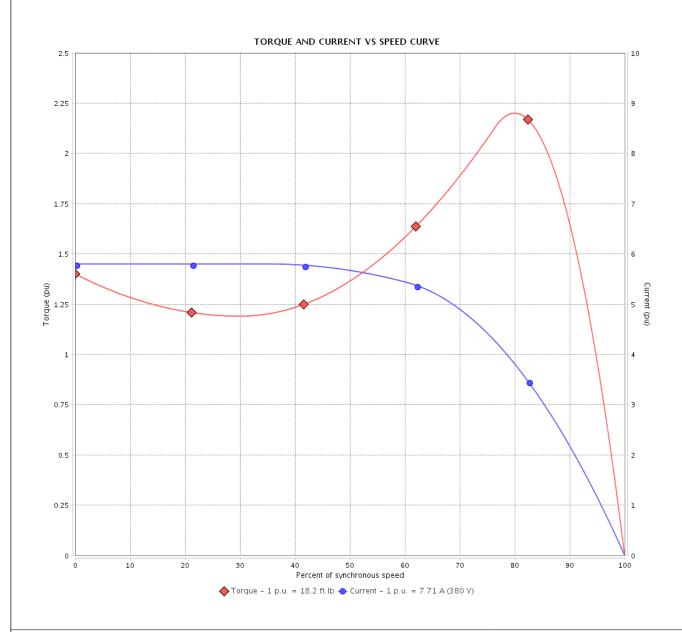


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 13163347

Catalog #: 00518OT3E184TC-SG



Performance : 190/380 V 50 Hz 4P Rated current : 15.4/7.71 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 1445 rpm Design Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



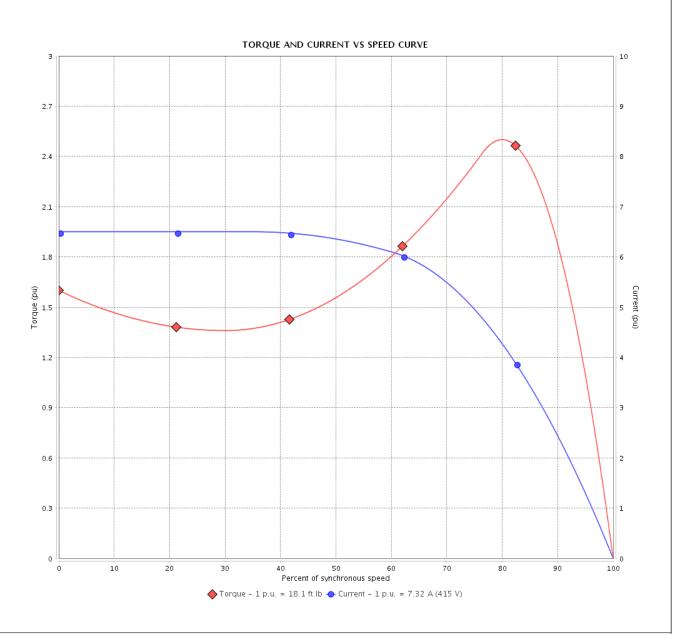
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 13163347

Catalog #: 00518OT3E184TC-SG



Performance : 220/415 V 50 Hz 4P Rated current : 13.8/7.32 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.1 ft.lb Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

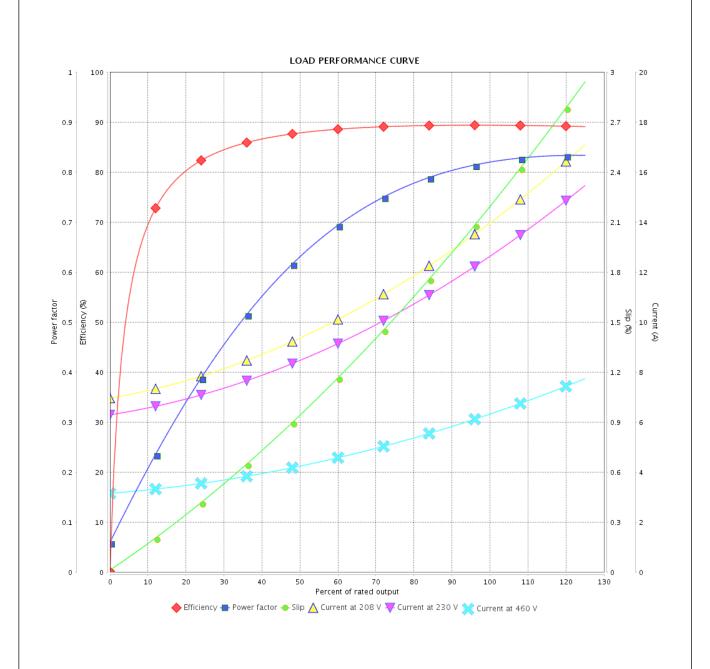


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13163347

Phase

Catalog #: 00518OT3E184TC-SG



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	12.7/6.33 A	Moment o	f inertia (J)	: 0.4003 sq.ft.	lb
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	14.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	310 %	Temperature rise		: 80 K	
Rated speed	:	1760 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

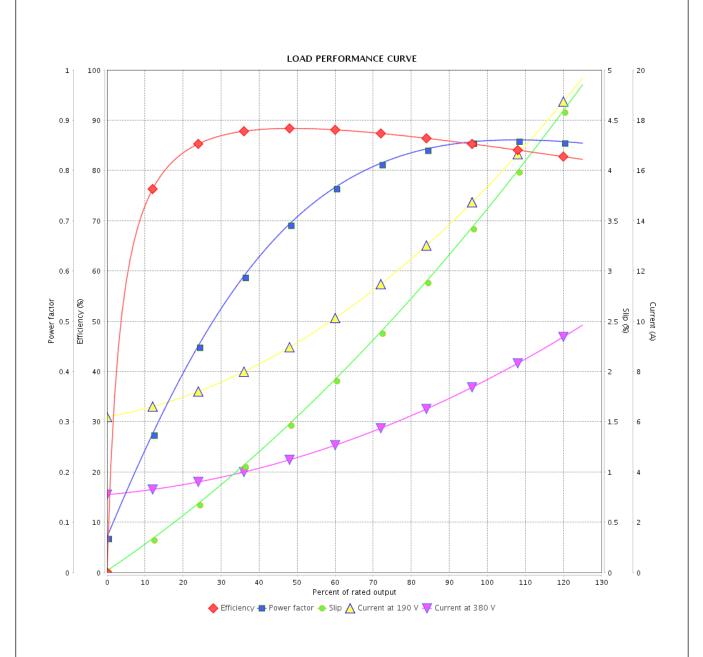
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00518OT3E184TC-SG

13163347

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Performance : 190/380 V 50 Hz 4P : 15.4/7.71 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 18.2 ft.lb : F Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage

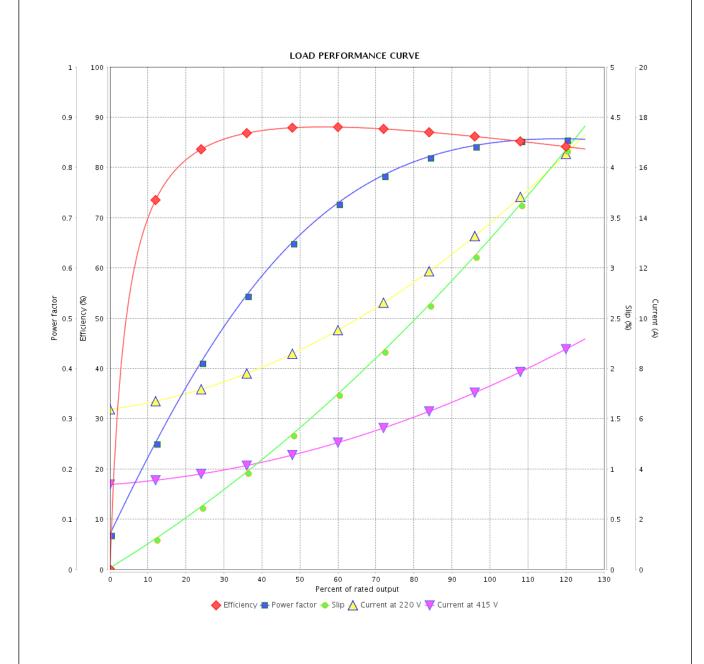


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13163347

Phase

Catalog #: 00518OT3E184TC-SG



Performance	:	220/415 V 50 Hz 4P				
Rated current	:	13.8/7.32 A	Moment o	f inertia (J)	: 0.4003 sq.ft.	lb
LRC	:	6.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	18.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	160 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	1450 rpm	Design		: B	
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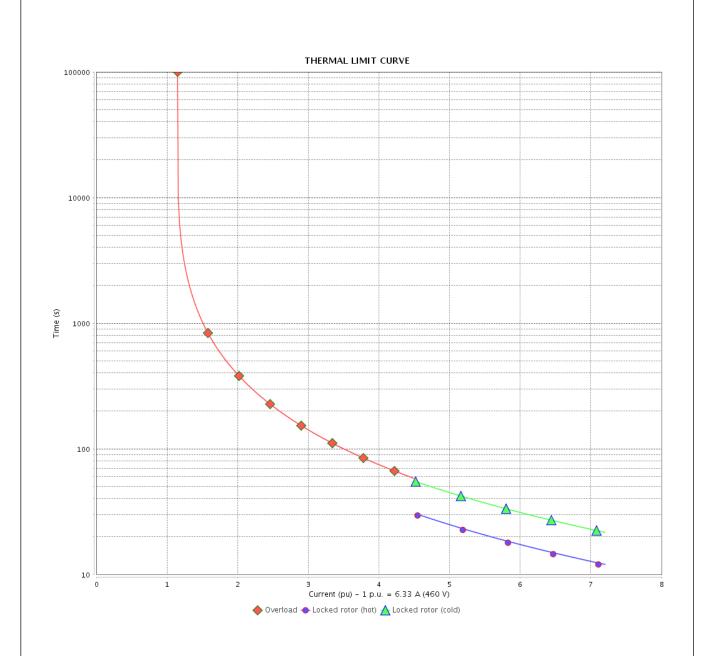


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13163347	
		Phase				
				Catalog # :	00518OT3E ²	1841 C-SG
Performance		: 230/460 V 60 Hz 4P				
Rated current		: 12.7/6.33 A	Moment	of inertia (J)	: 0.4003 sq.ft.l	h
LRC		: 7.2	Duty cycl	е	: Cont.(S1)	
Rated torque		: 14.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 310 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1760 rpm	Design	0 1100	: B	
Heating constan						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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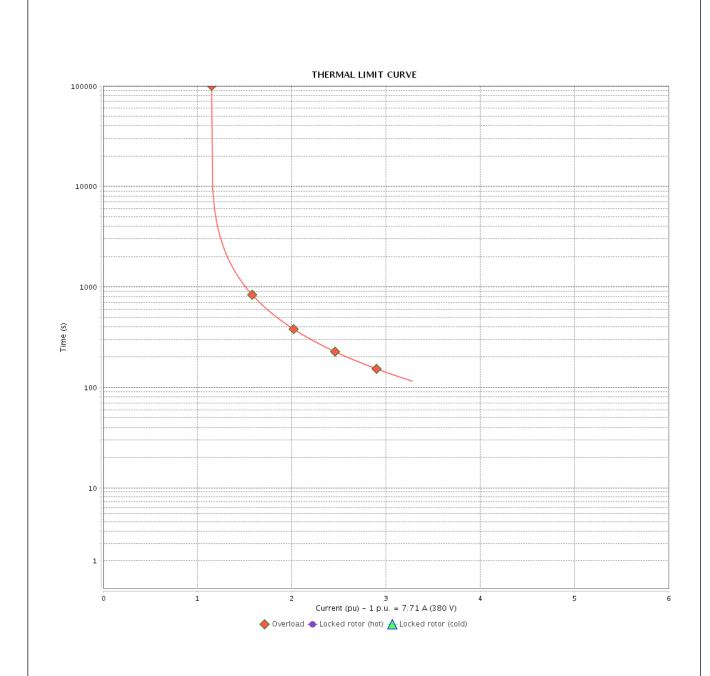


Customer	:					
Product line		NEMA Premium Efficiency l		Product code :	13163347 00518OT3E ²	184TC-SG
					000100132	
Performance	: 1	90/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 10 e : 14 : 2	5.4/7.71 A .8 8.2 ft.lb 40 % 20 % 445 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.4003 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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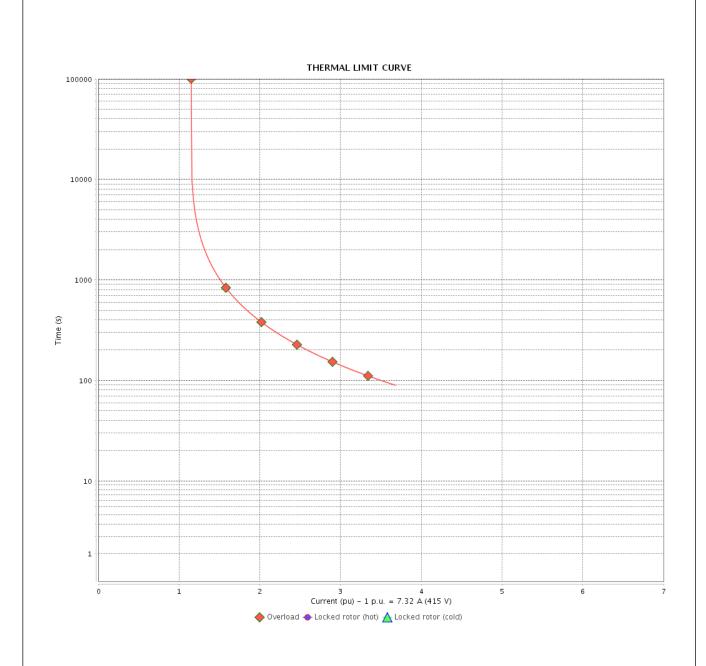


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13163347	
	Pl	hase		Catalog # :	00518OT3E1	184TC-SG
Performance	: 22	20/415 V 50 Hz 4P				
Rated current	: 13	3.8/7.32 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque	: 6. : 18	.5 8.1 ft.lb	Duty cycle	: class	: Cont.(S1) : F	
Locked rotor torque	e : 16	60 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		50 % 450 rpm	Temperatu Design	ıre rise	: 80 K : 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

Checked by

12/04/2022

Product line : NEMA Premium Efficiency Three-Product code:

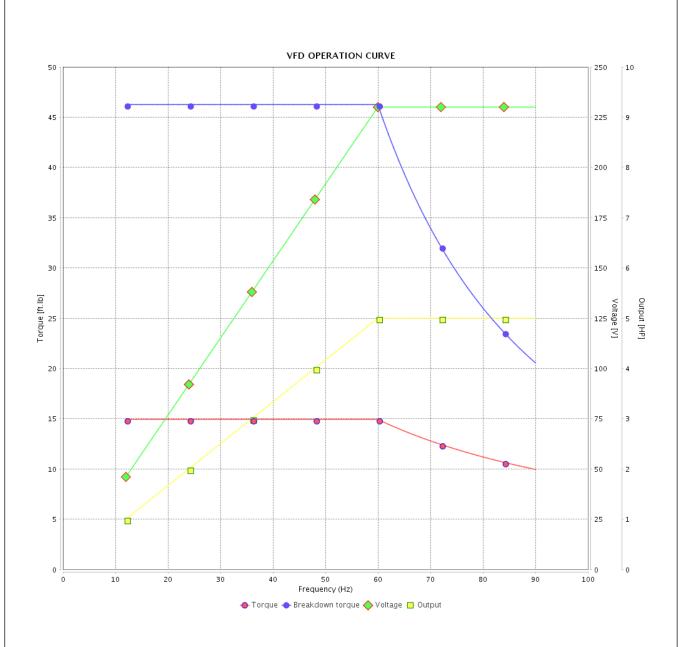
13163347

Catalog #: 00518OT3E184TC-SG

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Revision



Performance : 230/460 V 60 Hz 4P : 12.7/6.33 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 14.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



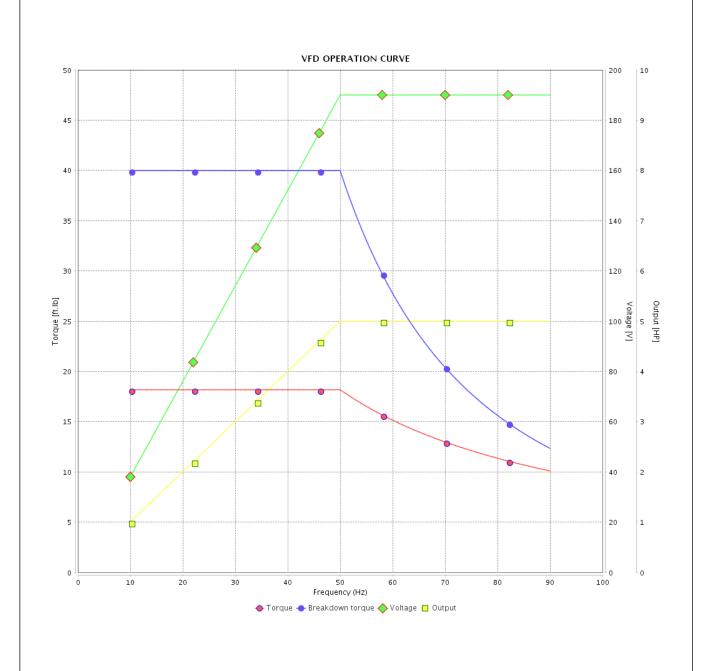
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13163347

Catalog #: 00518OT3E184TC-SG



Performance		: 190/380 V 50 Hz 4P							
Rated current	:	15.4/7.71 A	4/7.71 A Moment of inertia (J)		: 0.4003 sq.ft.lb				
LRC	:	5.8	Duty cycle		: Cont.(S1)				
Rated torque	•	18.2 ft.lb	Insulation class		: F				
Locked rotor tord	que :	140 %	Service factor		: 1.15				
Breakdown torqu	ue :	220 %	Temperati	Temperature rise					
Rated speed	:	1445 rpm Design			: B				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three- Product of

Phase

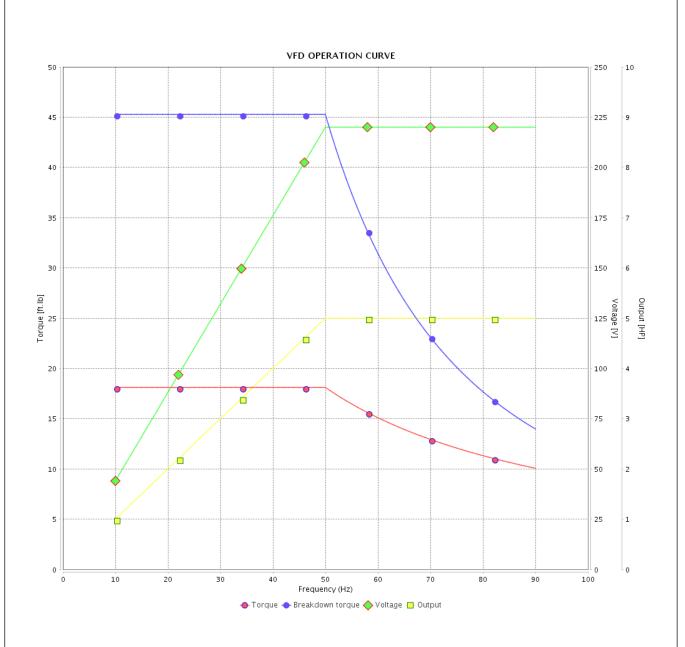
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Catalog #: 00518OT3E184TC-SG

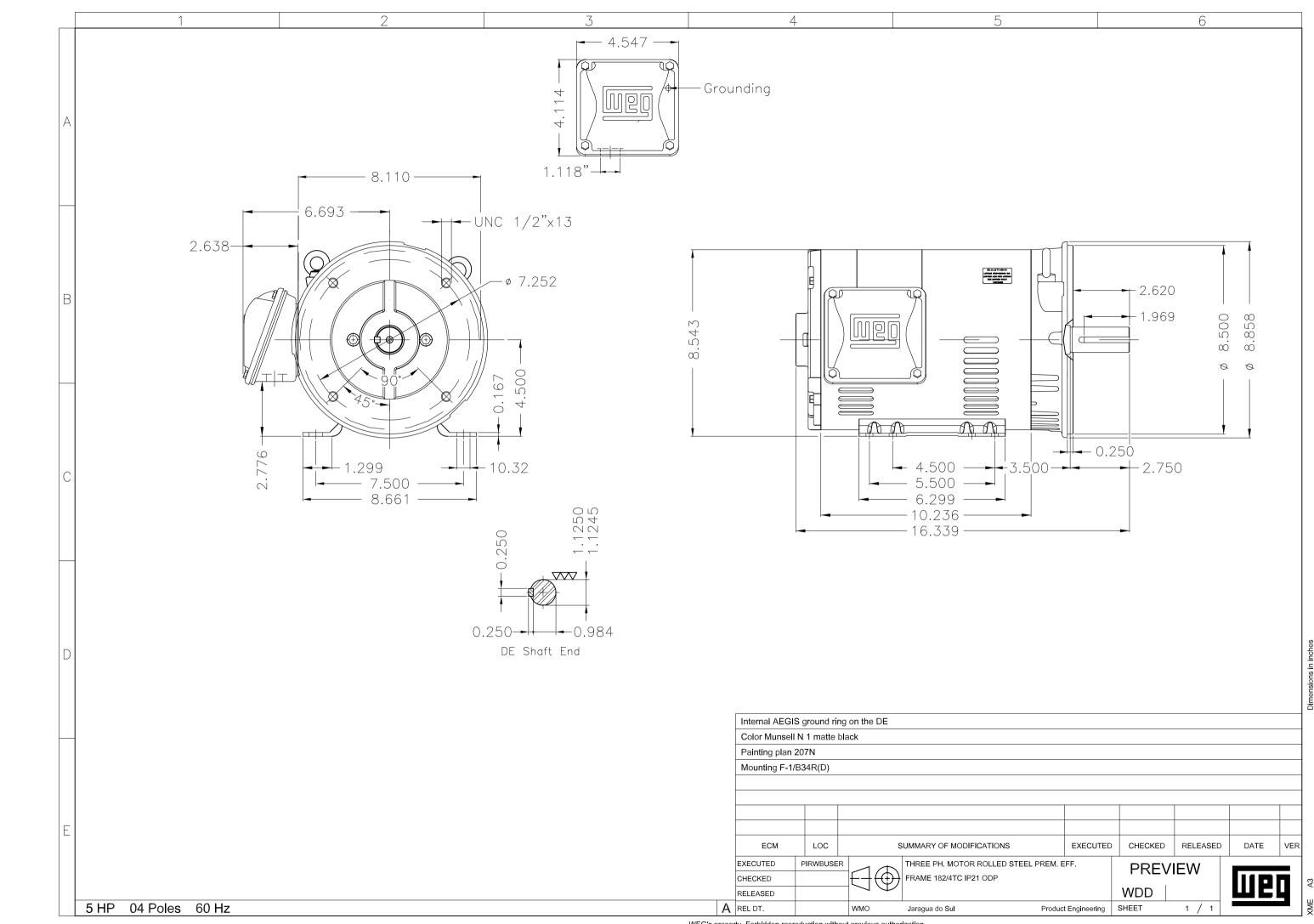
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Performance	:	220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	13.8/7.32 A 6.5 18.1 ft.lb 160 % 250 % 1450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4003 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : B	b
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MADE IN MÉXICO





S Su Su Energy Verifi

3PT9

MODEL 005180T3E184TC-SG CC029A S/N N01.TODICOXON 13163347 2APR2022

Hz 60

182/4TC

1000 m.a.s.l F AT 80K CONT

12.7/6.33 14.6/7.28 230/460

1.15

DES SABLE @ 208V 14.0A

2°04 900

NS CL

CODE

ZPM 3FA 냃 쌆

NOM EFF 1445RPM 50 Hz 5.0HP

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT

15.4-13.5/7.71-7.18A

LTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.15

190-220/380-415V

EFF 84.8% 89.5%

MOBIL POLYREX EM

6205-ZZ

ODE

8206-ZZ

牌

T6

T6-GRY T8-RED RED

T2-WHT

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 1-BLU





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 avant l'entretien de la machine