DATA SHEET

Three Phase Induction Motor - Squirrel Cage



87.9

87.6

85.8

0.40

0.67

0.79

0.85

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12630271

Phase

Catalog #: 00518OT3E184T-S Frame : 182/4T 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 : 81.2 lb Design : B Moment of inertia (J) : 0.4003 sq.ft.lb Output [HP] 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) Locked rotor time 21s (cold) 12s (hot) 0s (cold) 0s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 87.5 90.4 89.3

88.2

87.3

84.8

0.44

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 : 249 lb Sealing : Without Without Max. compression : 330 lb

Bearing Seal Bearing Seal

88.5

88.5

89.5

0.38

0.63

0.76

0.82

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

Notes

Efficiency (%)

Power Factor

USABLE @208V 14.0A SF 1.00 SFA 14.0A

50%

75%

100%

25%

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.

(1)710 10070 0110	in load.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



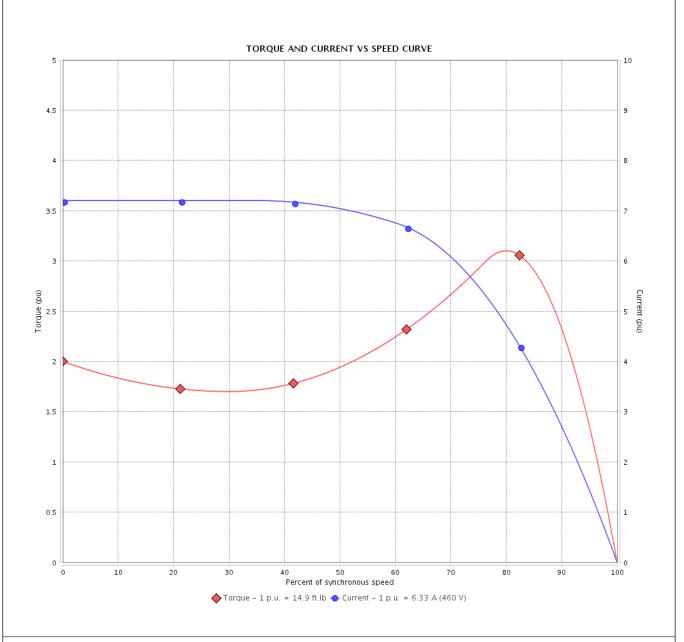
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12630271

Catalog #: 00518OT3E184T-S



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

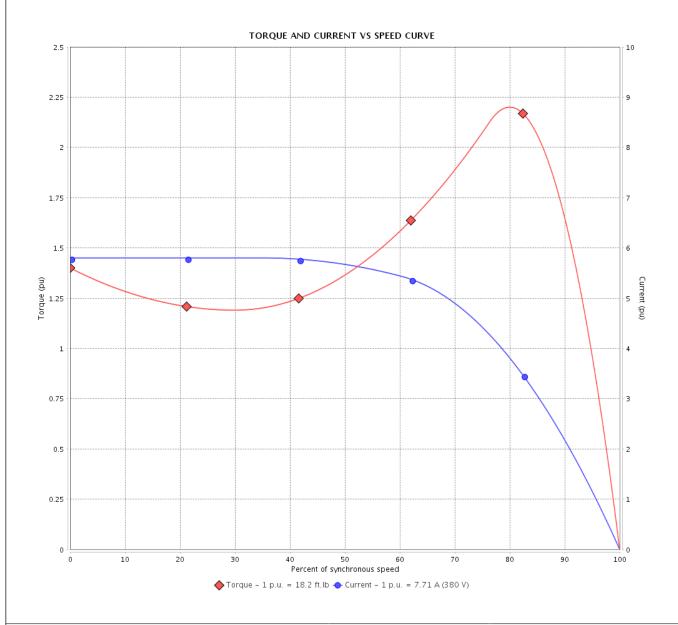
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12630271

Catalog #: 00518OT3E184T-S



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 Rated speed : 1445 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

		(33.2)			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



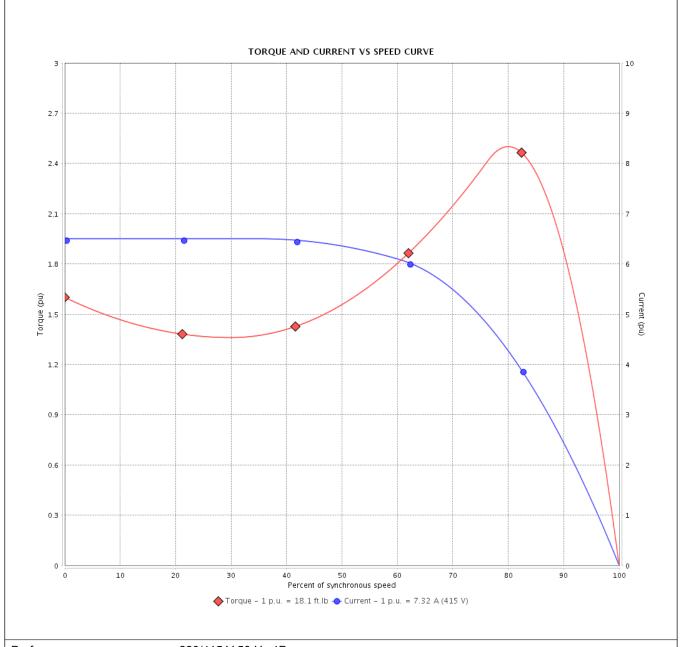
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12630271

Catalog #: 00518OT3E184T-S



 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 Service factor Locked rotor torque : 160 % : 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

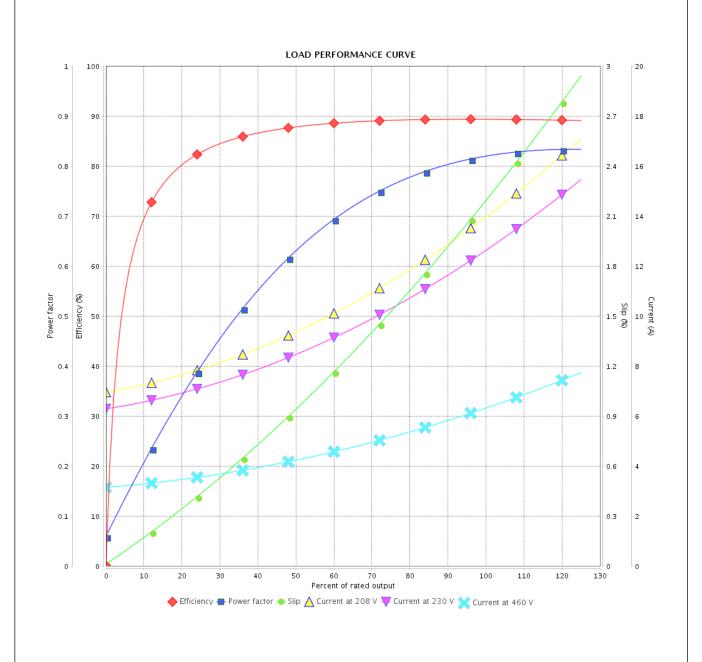


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12630271

Phase

Catalog #: 00518OT3E184T-S



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 %	Temperati	Temperature rise		
Rated speed	:	1760 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer :

Checked by

Date

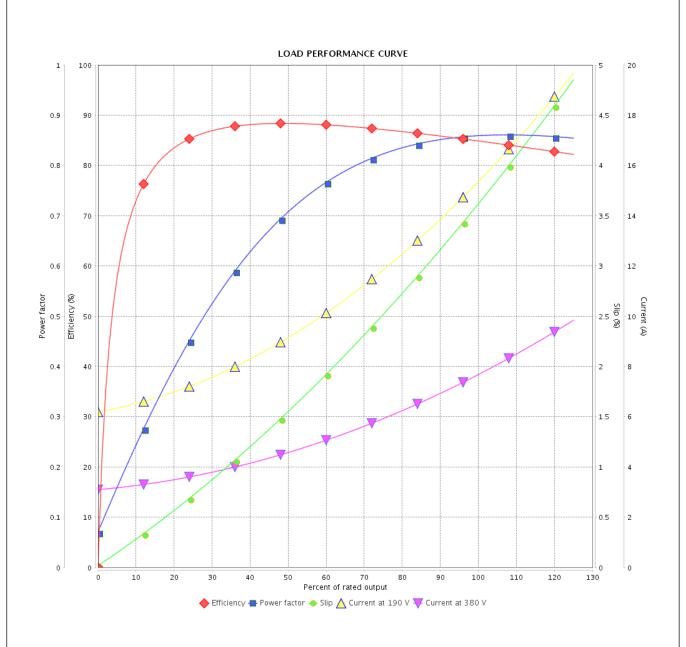
12/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12630271

Catalog #: 00518OT3E184T-S



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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

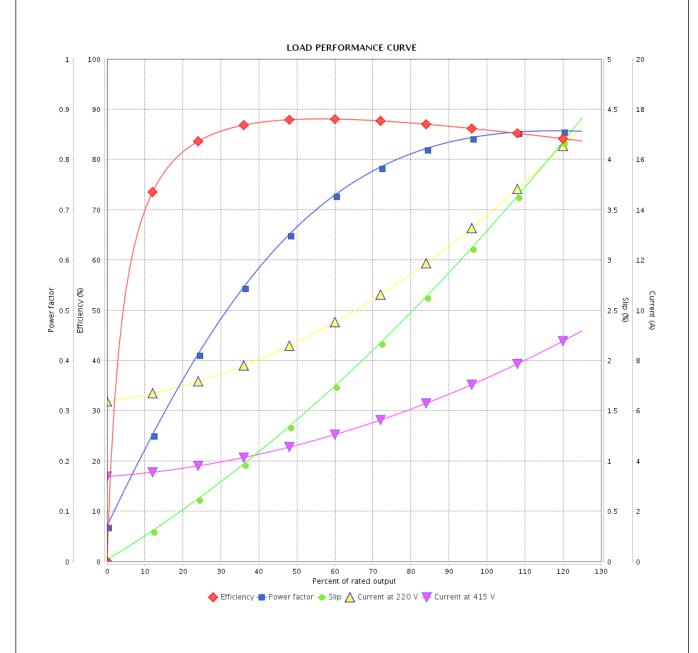


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12630271

Phase

Catalog #: 00518OT3E184T-S



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	: 1	3.8/7.32 A	Moment o	f inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 6	.5	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	8.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	60 %	Service factor		: 1.15	
Breakdown torque	eakdown torque : 250 % Temperature		ıre rise	: 80 K		
Rated speed	: 1	450 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

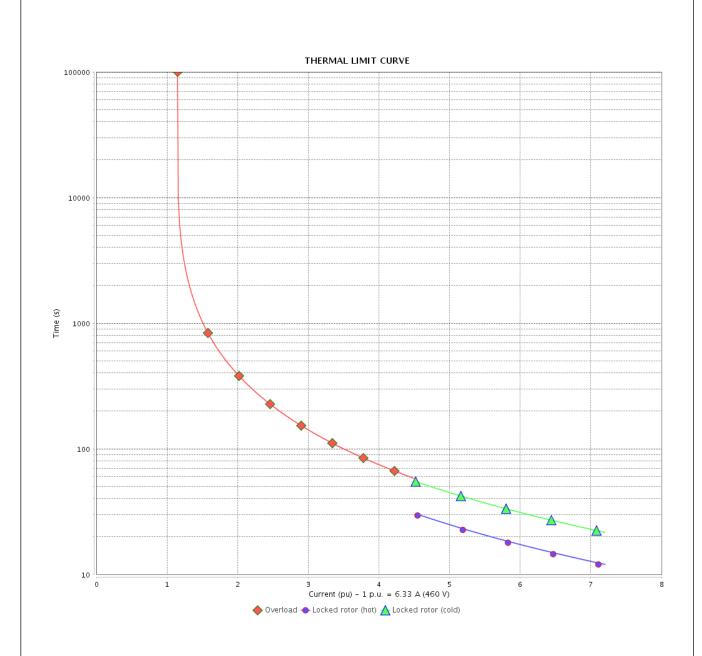


Customer		:				
Product line		: NEMA Premium Efficiency	Three	Product code :	12630271	
Product line		Phase	THIEE-			
				Catalog # :	00518OT3E1	184T-S
Performance		: 230/460 V 60 Hz 4P				
Rated current		: 12.7/6.33 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	h
LRC		: 7.2	Duty cycl	е	: Cont.(S1)	~
Rated torque		: 14.9 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 200 % : 310 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1760 rpm	Design	-	: B	
Heating constan	t					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

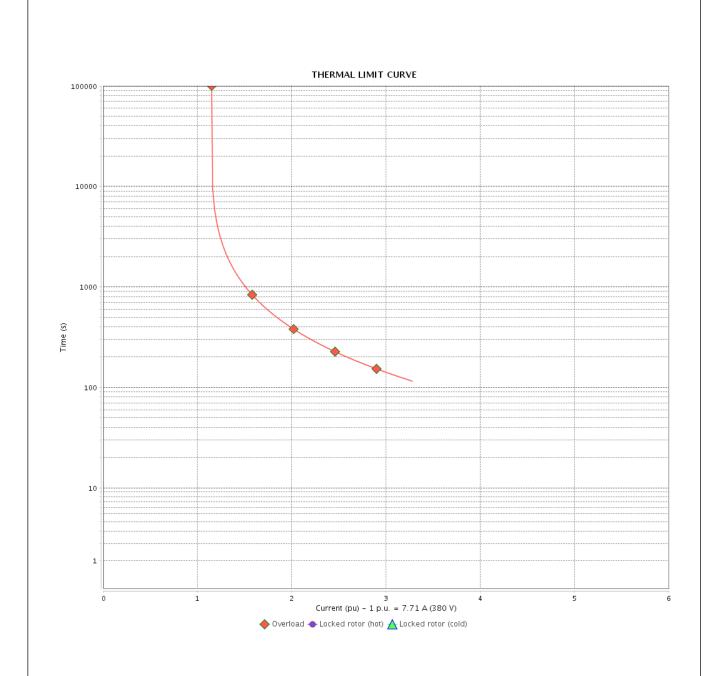


Customer	:					
Product line		NEMA Premium Efficiency ⁻ Phase		Product code :	12630271 00518OT3E	184T-S
Performance Rated current LRC Rated torque	: 1 : 5 : 1	190/380 V 50 Hz 4P 15.4/7.71 A 5.8 18.2 ft.lb	Duty cycle Insulation	class	: 0.4003 sq.ft. : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ue : 2	140 % 220 % 1445 rpm	Service fac Temperatu Design		: 1.15 : 80 K : B	
Heating constant			r	,		
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

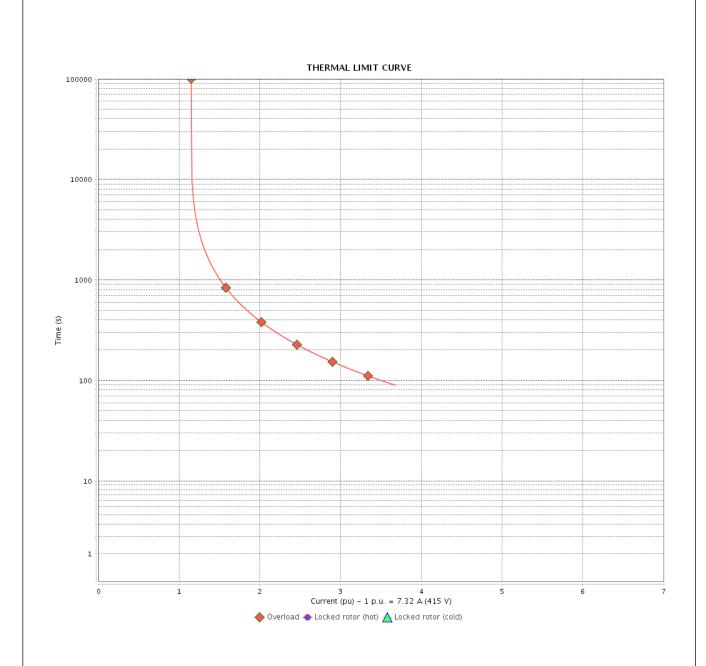


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12630271	
	Р	hase		Catalog # :	00518OT3E ²	184T-S
					000100102	
Performance	. 24	 20/415 V 50 Hz 4P				
Rated current		3.8/7.32 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	b
LRC	: 6.	5	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		3.1 ft.lb 60 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 2	50 %	Temperatu		: 80 K	
Rated speed	: 14	450 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

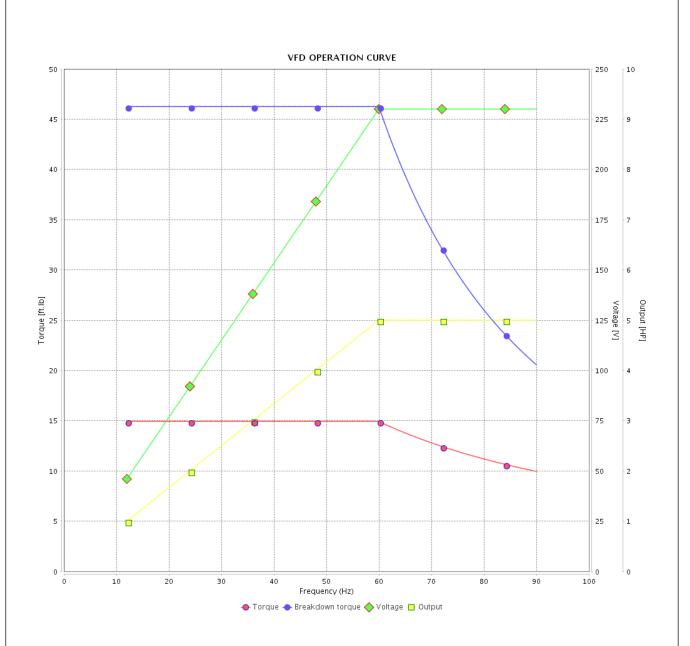
Catalog #: 00518OT3E184T-S

12630271

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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

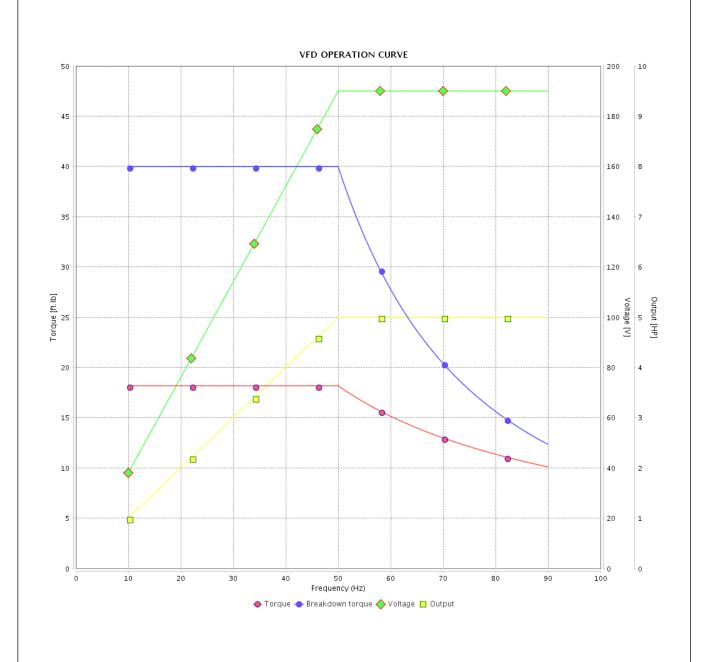


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12630271

Phase

Catalog #: 00518OT3E184T-S



Performance	: 1	: 190/380 V 50 Hz 4P					
Rated current	: 1	: 15.4/7.71 A		Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC	: 5	: 5.8		Duty cycle		: Cont.(S1)	
Rated torque	: 1	18.2 ft.lb Insulation class		class	: F		
Locked rotor torque	e : 1	40 %	Service factor		: 1.15		
Breakdown torque	: 2	: 220 %		Temperature rise		: 80 K	
Rated speed	: 1	: 1445 rpm		Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer :

Checked by

Date

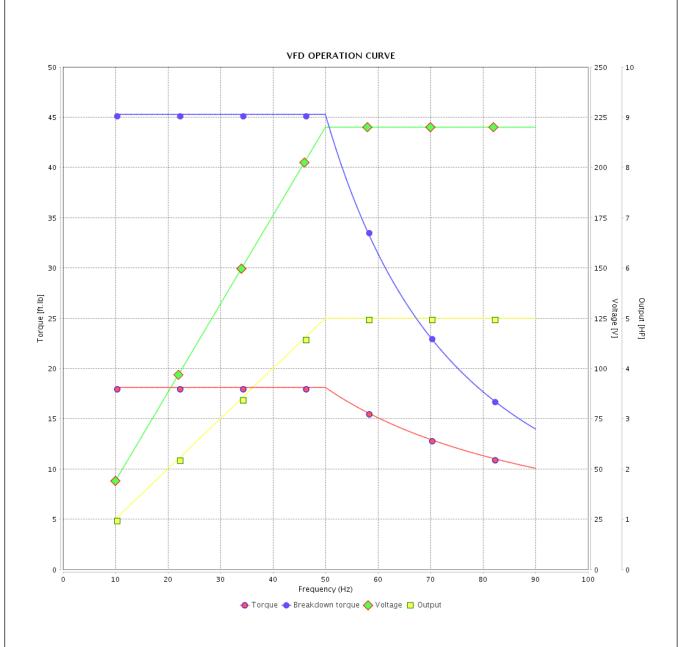
12/04/2022

Product line : NEMA Premium Efficiency Three-

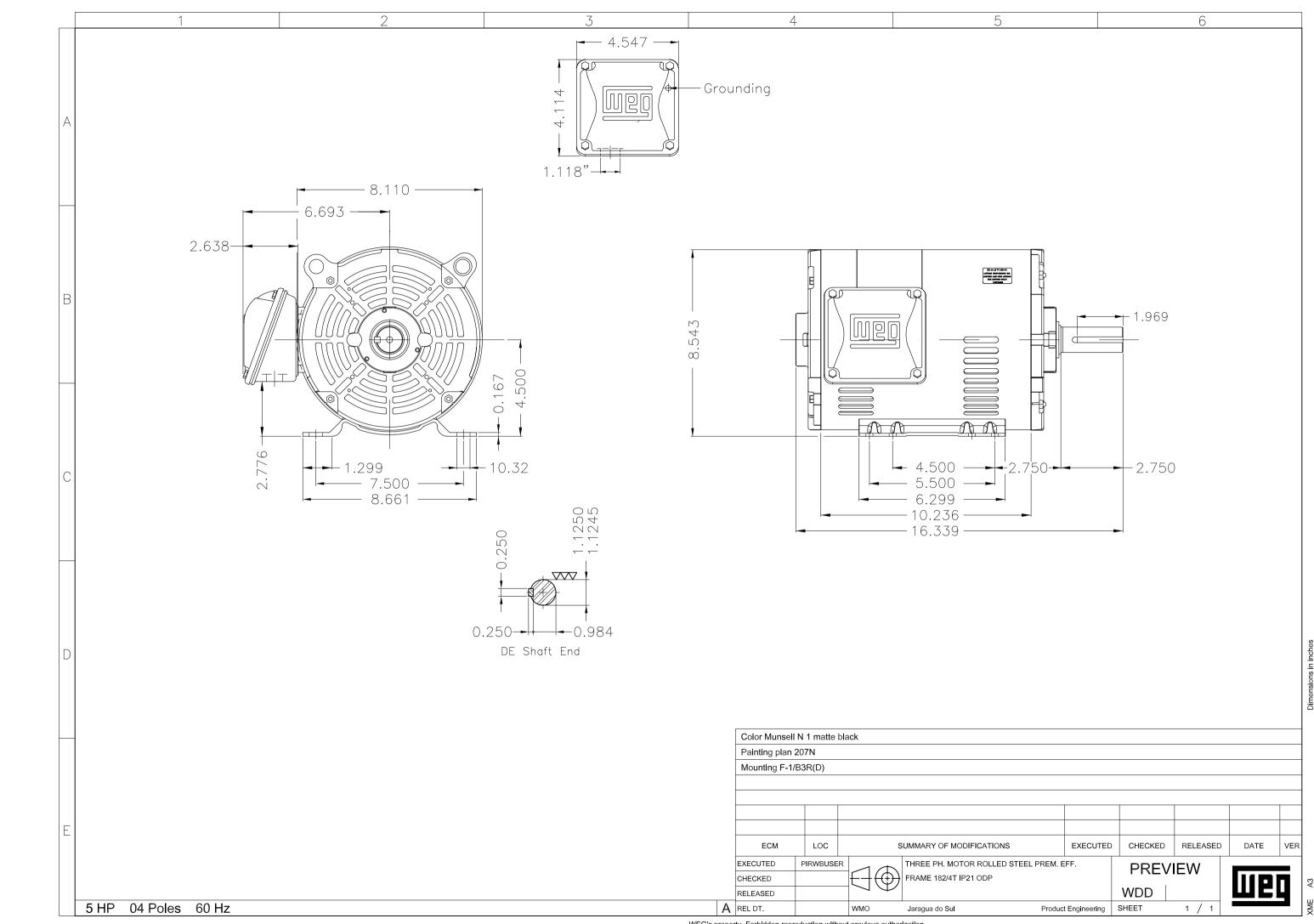
Phase

Product code: 12630271

Catalog #: 00518OT3E184T-S



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





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3PT9

Energy Verifi

(**UL)**US LISTED

MODEL 00518OT3E184T-S S/N 9APR2022

N01.TODICOXON

12630271

MADE IN MÉXICO

DES Hz 60 1000 m.a.s.l F AT 80K 182/4T CONT 2°04 900

NS CL

12.7/6.33 14.6/7.28 230/460

1.15

CODE SABLE @ 208V 14.0A ALTERNATE RATING:

SF1.00 NCL 2

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. NOM EFF 1445RPM 50 Hz 6205-ZZ

5.0HP

15.4-13.5/7.71-7.18A

IEC 60034-1

SF1.15

190-220/380-415V

EFF 84.8% 89.5%

ODE

8206-ZZ

牌

MOBIL POLYREX EM

T6

T2-WHT T6-GRY

11-BLU

T4-YEL

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



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. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION 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

