DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12750585

Phase

Catalog #: 002120T3E184TC-S

Frame : 182/4TC Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (C'

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 : 78.1 lb

Design : B Moment of inertia (J) : 0.2800 sa.ft.lb

Design		: B	Moment of inertia (J)	: 0.2800 sq.ft.lb
Output [HP]		2	2	2
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.90/2.95	6.96/3.48	6.41/3.40
L. R. Amperes [A]		38.9/19.5	35.5/17.7	36.6/19.4
LRC [A]		6.6x(Code J)	5.1x(Code G)	5.7x(Code H)
No load current [A	.]	3.42/1.71	3.37/1.69	3.50/1.86
Rated speed [RPI	Л]	1165	945	950
Slip [%]		2.92	5.50	5.00
Rated torque [ft.lb]		9.02	11.1	11.1
Locked rotor torqu	ie [%]	200	160	190
Breakdown torque	: [%]	300	220	250
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		59s (cold) 33s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	84.4	86.1	84.6
Efficiency (%)	50%	85.5	84.8	84.0
Lindicity (70)	75%	86.5	84.9	85.0
	100%	87.5	83.0	83.8
	25%	0.30	0.36	0.32
Power Factor	50%	0.53	0.61	0.56
1 GWC1 1 actor	75%	0.66	0.73	0.69
	100%	0.73	0.79	0.76

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

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 137 lb Sealing : Without Without Max. compression : 215 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 6.52A SF 1.00 SFA 6.52A

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.

(4) / 11 100 /0 01 10	iii load.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

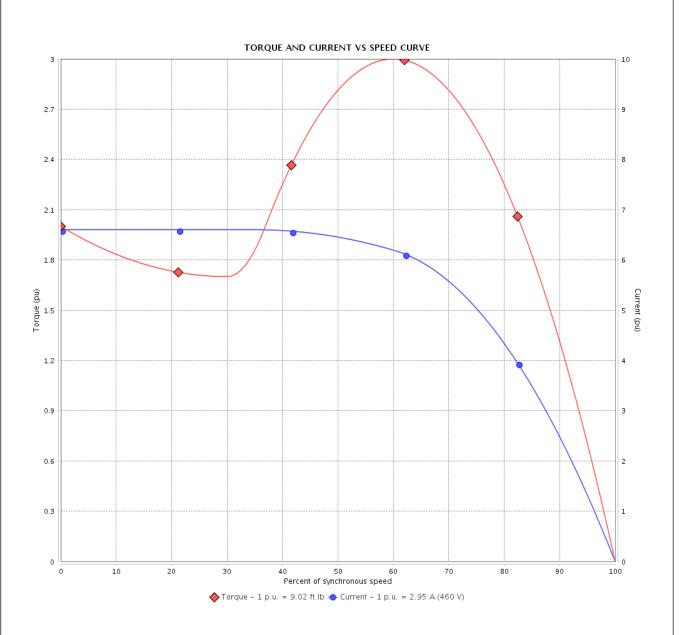


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00212OT3E184TC-S

12750585



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : F : 9.02 ft.lb Insulation class Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

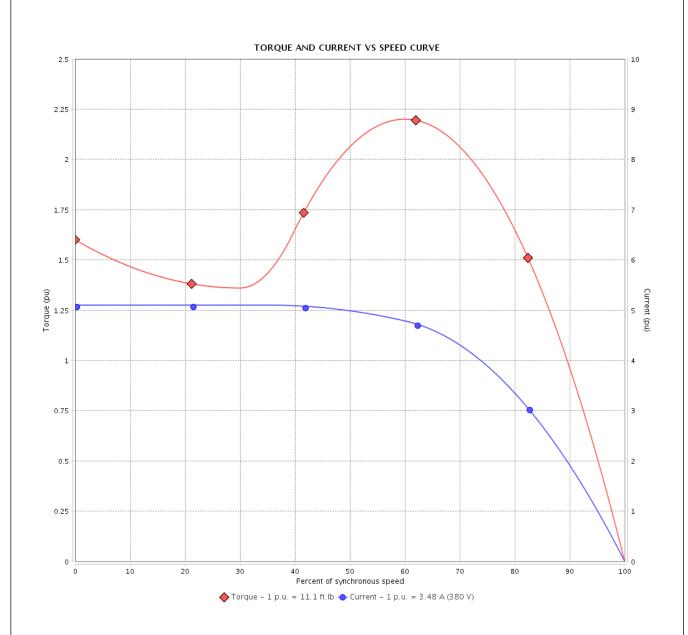
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12750585

Catalog #: 00212OT3E184TC-S



Performance : 190/380 V 50 Hz 6P Rated current : 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 11.1 ft.lb : 1.00 Locked rotor torque : 160 % Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 945 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



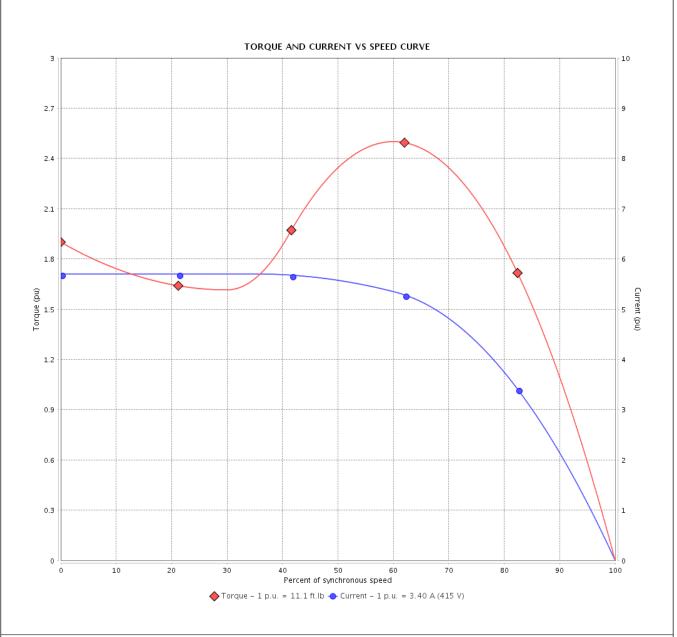
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12750585

Catalog #: 00212OT3E184TC-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.1 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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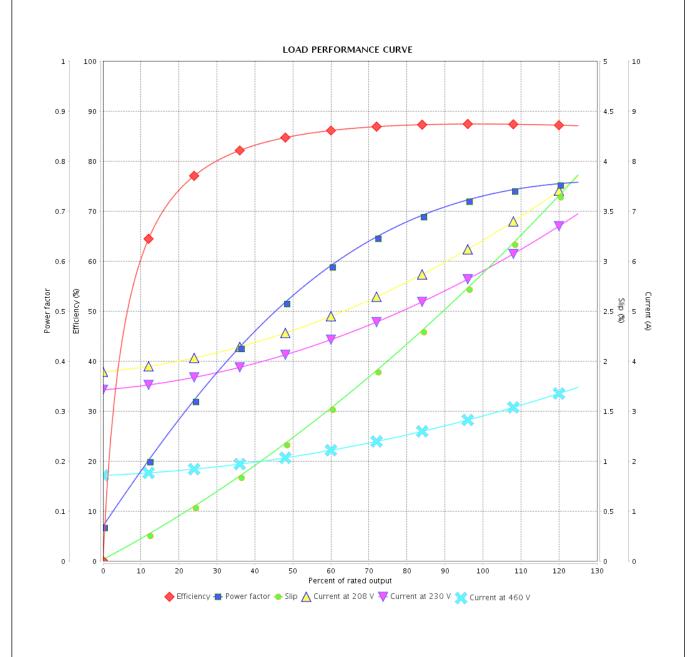


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12750585

Phase

Catalog #: 00212OT3E184TC-S



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	5.90/2.95 A	Moment o	f inertia (J)	: 0.2800 sq.ft.l	b
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	9.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1165 rpm	Design		: B	
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Customer :

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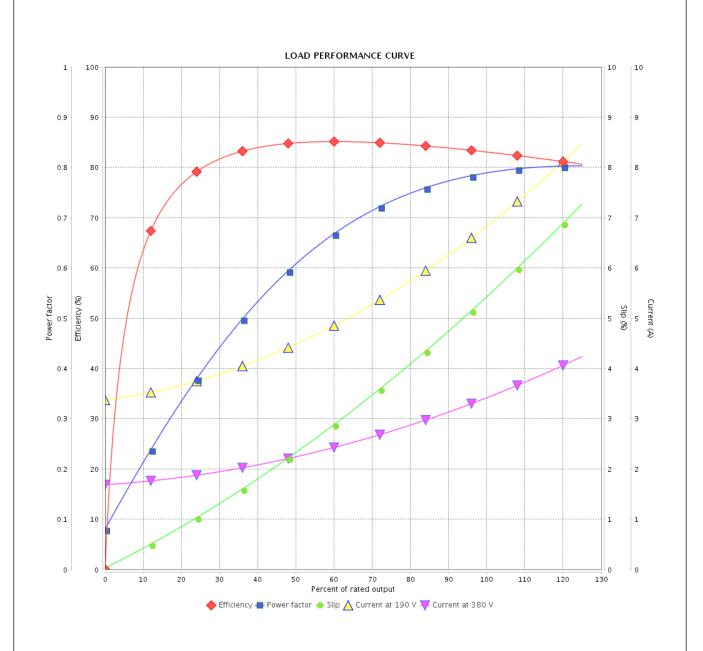
Date

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Product line : NEMA Premium Efficiency Three- Product code : 12750585

Phase

Catalog #: 00212OT3E184TC-S



Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.96/3.48 A : 5.1 : 11.1 ft.lb : 160 % : 220 % : 945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2800 sq.ft.ll : Cont.(S1) : F : 1.00 : 105 K : B	0
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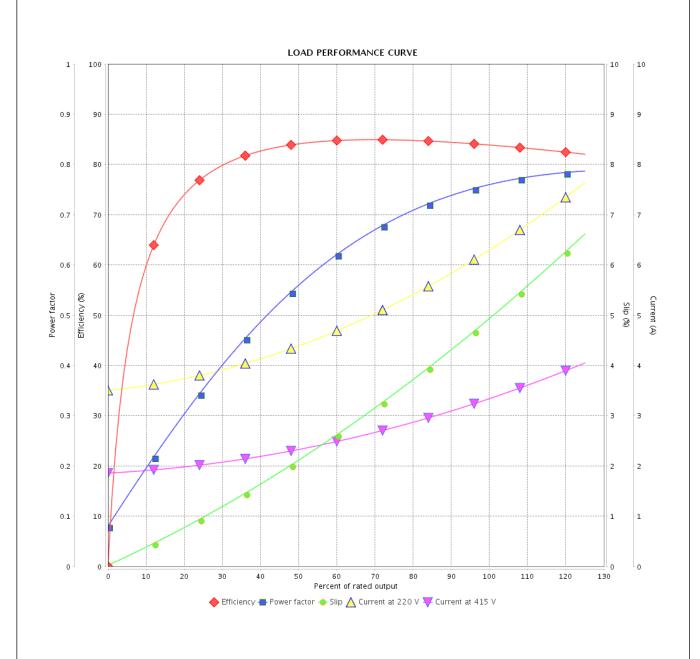


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12750585

Phase

Catalog #: 00212OT3E184TC-S



Performance	: 2	220/415 V 50 Hz 6P				
Rated current	: 6	6.41/3.40 A	Moment o	f inertia (J)	: 0.2800 sq.ft.	lb
LRC	: 5	5.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: '	11.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e : '	190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 9	950 rpm	Design		: B	
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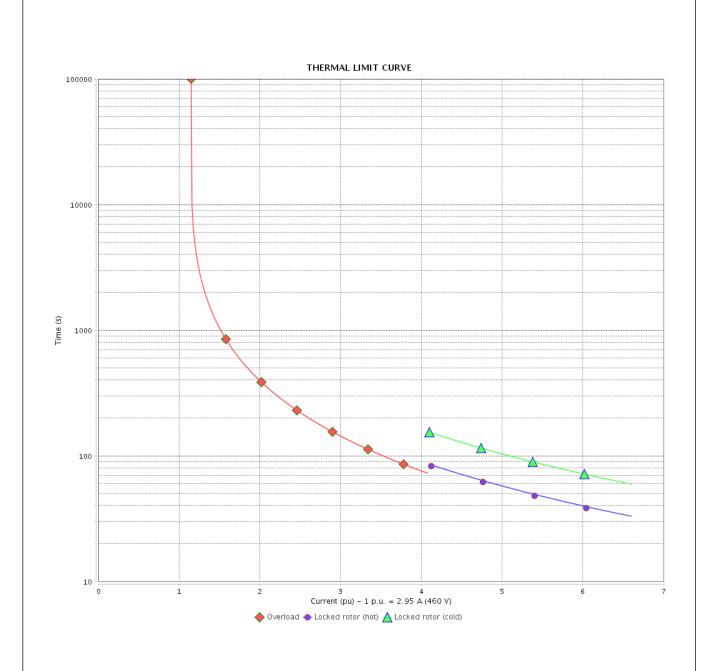


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12750585	
	P	hase		Catalog # :	00212OT3E	184TC-S
Performance	: 23	30/460 V 60 Hz 6P	<u>.</u>			
Rated current		90/2.95 A	Moment o	f inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque	: 6. : 9.	6 02 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 20	00 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		00 % 165 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		· - · · ·	_ 55.9.1			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage

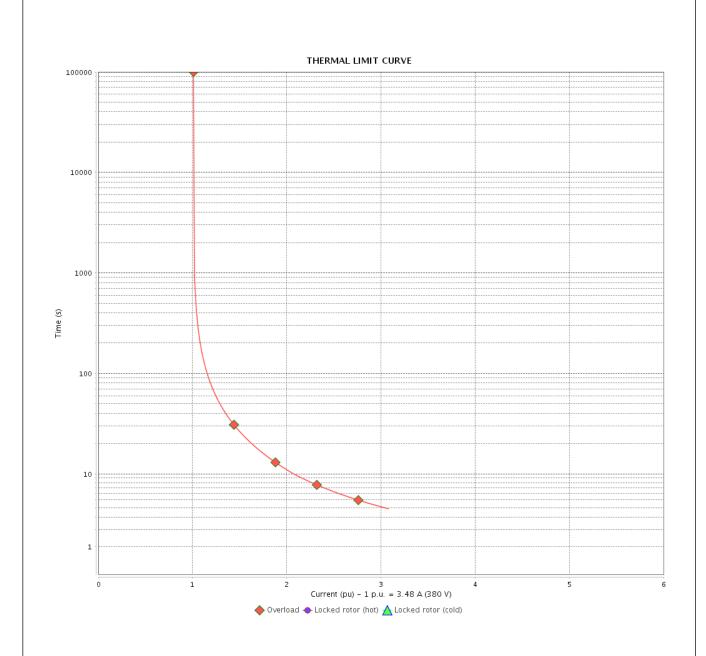


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12750585 00212OT3E1	84TC-S
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : : : : : : :	190/380 V 50 Hz 6P 6.96/3.48 A 5.1 11.1 ft.lb 160 % 220 % 945 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2800 sq.ft.I : Cont.(S1) : F : 1.00 : 105 K : B	b
Heating constant	t		-			
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

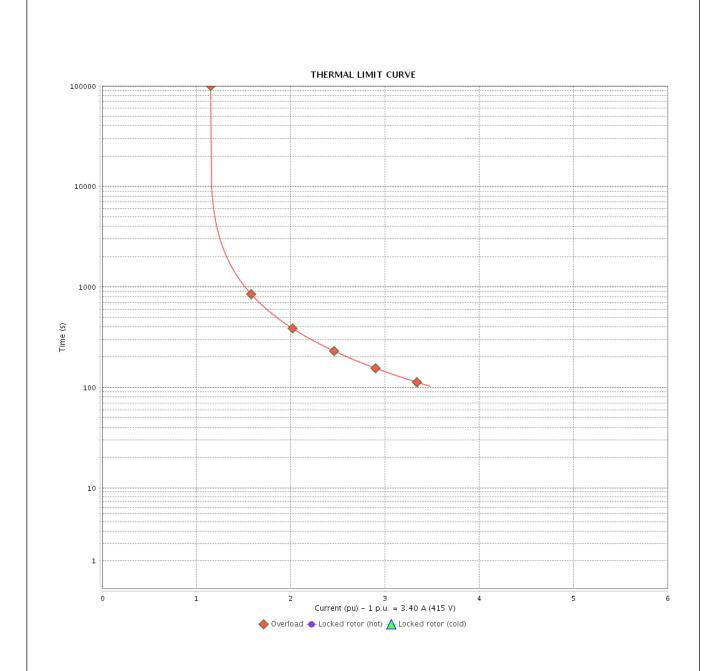


Customer	:				
Product line			Product code :	12750585	
	Phase	(Catalog # :	00212OT3E18	4TC-S
Performance	: 220/415 V 50 Hz 6P				
Rated current	: 6.41/3.40 A	Moment of	finertia (J)	: 0.2800 sq.ft.lb	
LRC		Duty ovolo		. 0 + (04)	
	: 5.7 : 11 1 ft lb	Duty cycle	class	: Cont.(S1)	
	: 11.1 ft.lb : 190 %	Insulation Service fac	class ctor	: F : 1.00	
Breakdown torque	: 11.1 ft.lb : 190 % : 250 %	Insulation Service fac Temperatu	class ctor	: F : 1.00 : 80 K	
Breakdown torque Rated speed	: 11.1 ft.lb : 190 %	Insulation Service fac	class ctor	: F : 1.00	
Breakdown torque Rated speed Heating constant	: 11.1 ft.lb : 190 % : 250 %	Insulation Service fac Temperatu	class ctor	: F : 1.00 : 80 K	
Breakdown torque Rated speed	: 11.1 ft.lb : 190 % : 250 % : 950 rpm	Insulation Service fac Temperatu	class ctor	: F : 1.00 : 80 K	Date
Breakdown torque Rated speed Heating constant Cooling constant	: 11.1 ft.lb : 190 % : 250 %	Insulation Service fac Temperatu	class ctor re rise	: F : 1.00 : 80 K : B	Date
Breakdown torque Rated speed Heating constant Cooling constant	: 11.1 ft.lb : 190 % : 250 % : 950 rpm	Insulation Service fac Temperatu	class ctor re rise	: F : 1.00 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

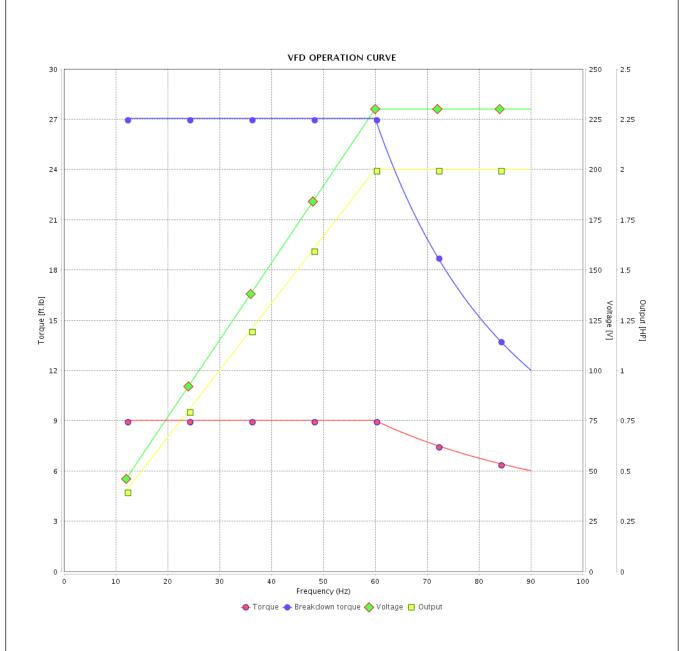
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12750585

Catalog #: 00212OT3E184TC-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 9.02 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 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



Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code : 12750585

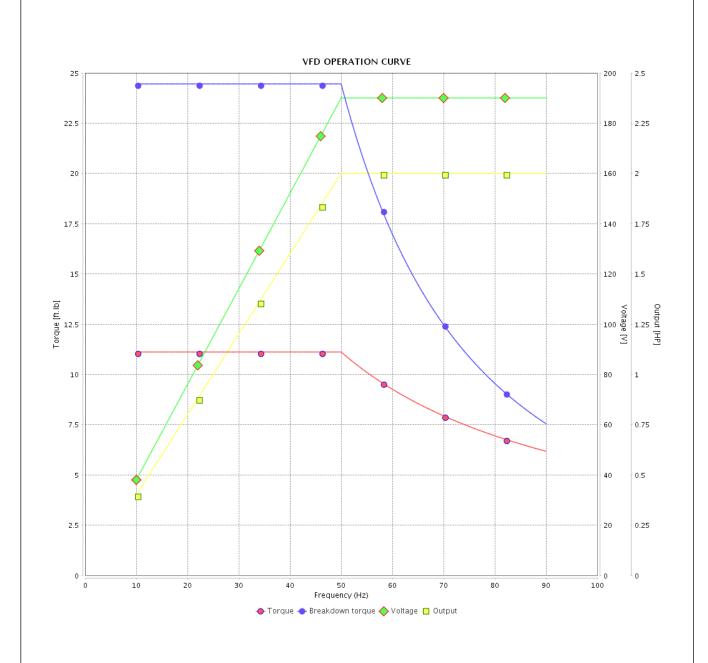
Phase

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Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.96/3.48 A : 5.1 : 11.1 ft.lb : 160 % : 220 % : 945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

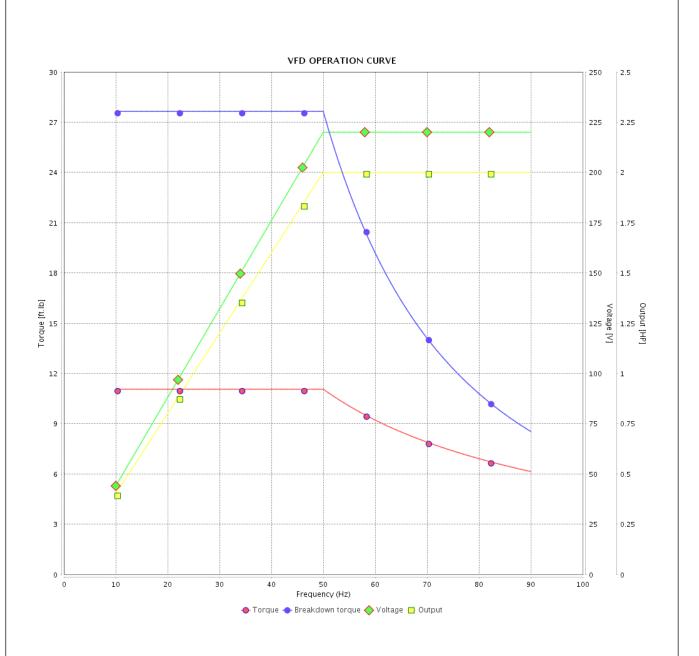
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00212OT3E184TC-S

12750585

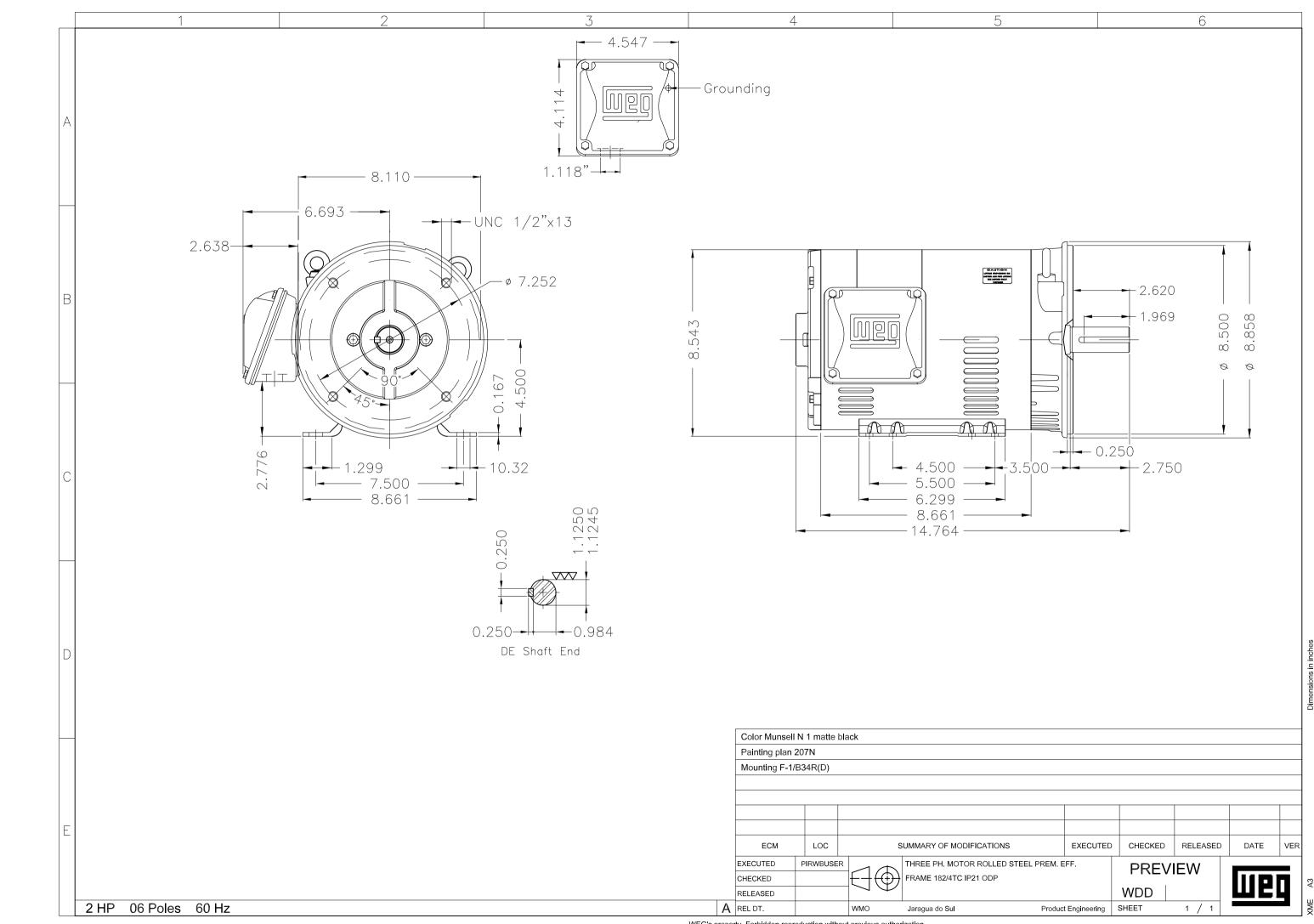
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Performance	: 220/415 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.41/3.40 A : 5.7 : 11.1 ft.lb	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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¥EX V

(**UL)**US LISTED 3PT9

& Energy Verifi

> MODEL 002120T3E184TC-S N01.TODICOXON

12750585

MADE IN MÉXICO

9 S/N 걒 182/4TC 20CT2021 CONT

DES 1000 m.a.s.l F AT 80K 2°04 900

SCL

5.90/2.95

230/460 1.15

> CODE SABLE @ 208V 6.52A

ZPM 3FA 냃 쌆

> 2.0HP 3 96-6 34/3 48-3 36A ALTERNATE RATING:

SF1.00 INC. 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 6205-ZZ T6 ODE

8206-ZZ

牌

MOBIL POLYREX EM

IEC 60034-1

SF1.00

190-220/380-415V

87.5%

NOM EFF 945RPM

50 Hz

EFF 83.0%

T6-GRY

T2-WHT

1-BLU

T4-YEL

r3-org 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