DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Efficiency Product code: 12677336 Three-Phase 00536ET3ER184TC-S Catalog #: Frame : 182/4TC Cooling method : IC411 - TEFC Mounting Insulation class : F : W-6 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 : 89.6 lb **Al**titude : **I**P55 Moment of inertia (J) : 0.2079 sq.ft.lb Protection degree Design : B Output [HP] 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 [RPM] 3500 2860 2885 Slip [%] 2.78 4.67 3.83 Rated torque [ft.lb] 7.50 9.18 9.10 Locked rotor torque [%] 220 180 220 Breakdown torque [%] 300 250 300 Service factor 1.00 1.00 1.15 80 K 105 K 105 K Temperature rise Locked rotor time 30s (cold) 17s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level² 68.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 87.2 89.8 88.9 87.5 50% 88.1 88.0 Efficiency (%) 75% 87.3 88.5 88.1 100% 88.5 85.2 86.8 25% 0.49 0.55 0.49 0.82 50% 0.76 0.76 Power Factor 75% 0.85 0.89 0.86 100% 0.89 0.92 0.90 Non drive end **Drive** end Foundation loads Bearing type 6206 ZZ 6205 ZZ Max. traction : 129 lb V'Ring Without Sealing Max. compression : 219 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 These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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.

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : Rolled Steel NEMA Premium Efficiency Product code: 12677336 Three-Phase Catalog #: 00536ET3ER184TC-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 (nd) 1.5 Current (pu) 0.9 0.6 100 Percent of synchronous speed ♦ Torque - 1 p.u. = 7.50 ft.lb ◆ Current - 1 p.u. = 5.90 A (460 V) : 230/460 V 60 Hz 2P Performance Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** Duty cycle : 7.8 : Cont.(S1) Insulation class Rated torque : 7.50 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : B : 3500 rpm Design Locked rotor time : 30s (cold) 17s (hot) Rev. **Changes Summary** Performed Checked Date Performed by

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Efficiency Product code: 12677336 Three-Phase Catalog #: 00536ET3ER184TC-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 (nd) 1.5 Current (pu) 1.2 0.9 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.18 ft.lb ◆ Current - 1 p.u. = 7.17 A (380 V) : 190-220/380 V 50 Hz 2P Performance Rated current : 14.3-12.4/7.17 A Moment of inertia (J) : 0.2079 sq.ft.lb Duty cycle LRC 6.4 : Cont.(S1) Insulation class Rated torque : 9.18 ft.lb : F : 180 % Service factor : 1.00 Locked rotor torque : 250 % : 105 K Breakdown torque Temperature rise Rated speed : 2860 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Rev. **Changes Summary** Performed Checked Date Performed by Checked by Revision Page

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : Rolled Steel NEMA Premium Efficiency Product code: 12677336 Three-Phase Catalog #: 00536ET3ER184TC-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 (nd) 1.5 Current (pu) 1.2 0.9 0.6 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.10 ft.lb ◆ Current - 1 p.u. = 6.59 A (415 V) : 415 V 50 Hz 2P Performance Rated current : 6.59 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** Duty cycle : 7.7 : Cont.(S1) Insulation class Rated torque : 9.10 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 : 105 K Breakdown torque : 300 % Temperature rise Rated speed : 2885 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision

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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency

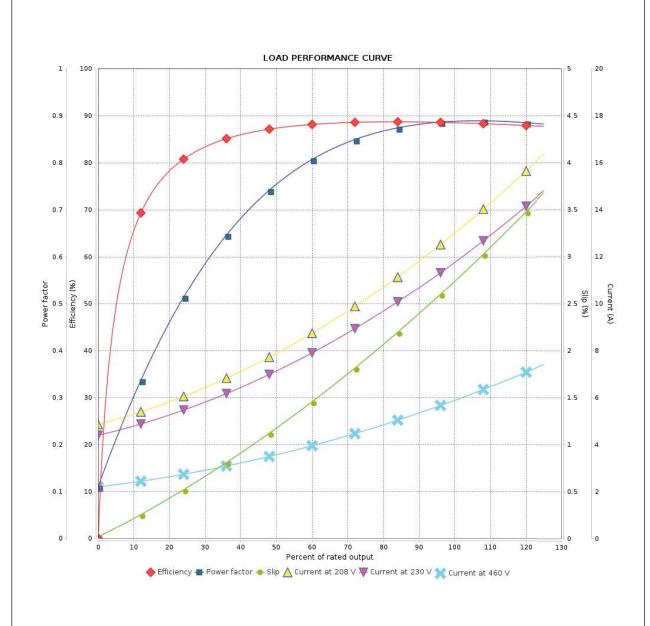
Three-Phase

Product code: 12

12677336

Catalog #:

00536ET3ER184TC-S



Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 7 : 7 : 2 : 3	1.8/5.90 A 8 50 ft.lb 20 % 00 % 500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2079 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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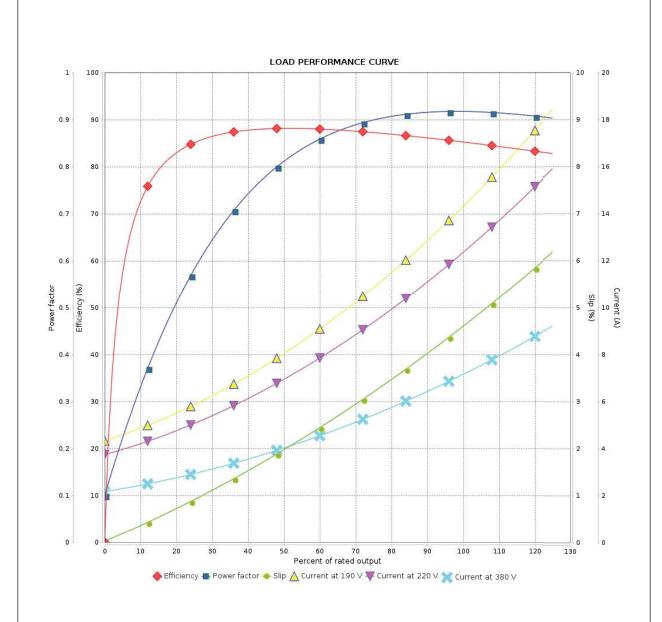
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12677336

Catalog #: 00536ET3ER184TC-S



Performance : 190-220/380 V 50 Hz 2P Moment of inertia (J) Rated current : 14.3-12.4/7.17 A : 0.2079 sq.ft.lb LRC : 6.4 Duty cycle : Cont.(S1) Rated torque : 9.18 ft.lb Insulation class : 180 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % : 105 K Temperature rise Rated speed : 2860 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision

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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency

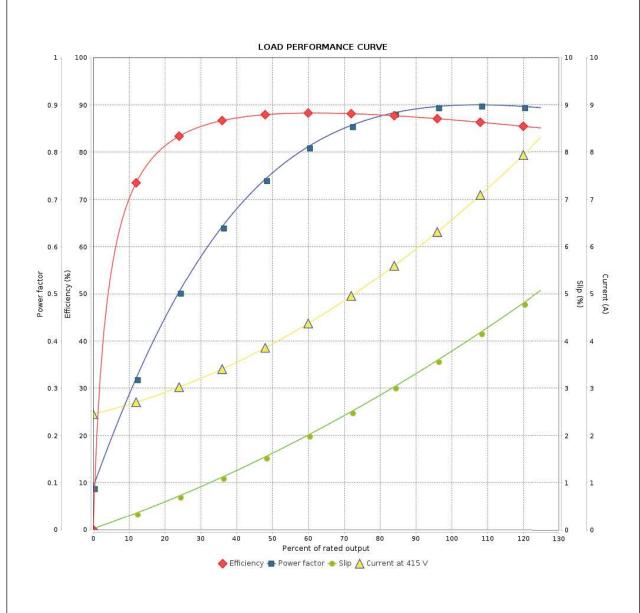
Three-Phase

Product code :

12677336

Catalog # :

00536ET3ER184TC-S



Performance	: 4	: 415 V 50 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7 : 9 : 2 : 3	.59 A .7 .10 ft.lb 20 % 00 % 885 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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Three Phase Induction Motor - Squirrel Cage

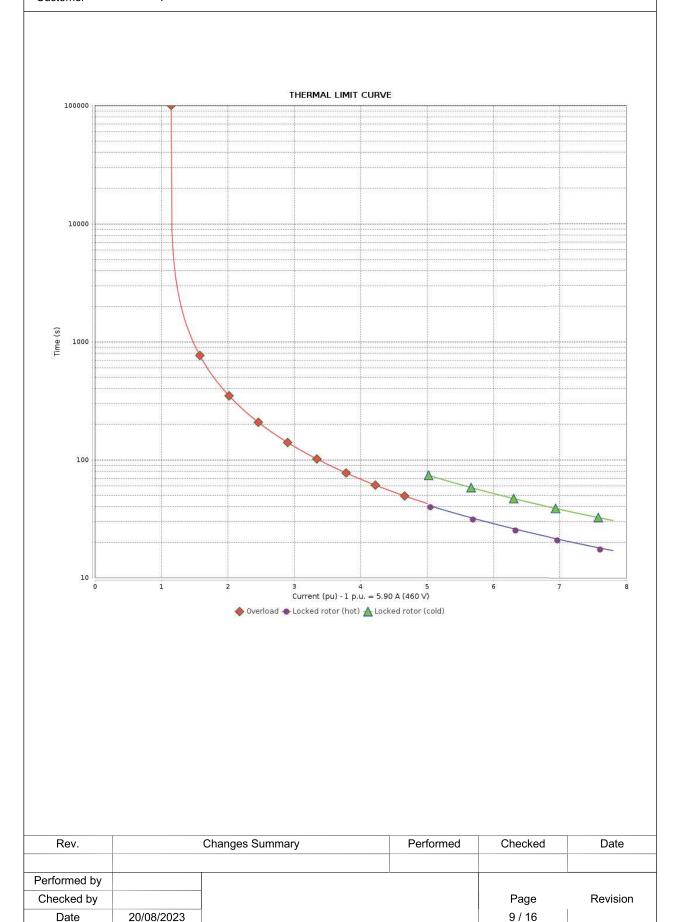


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Product line	: Rolled S [.] Three - Pha	teel NEMA Premium Efficie	ency	Product code :	12677336	
	111166-1 118	330		Catalog # :	00536ET3EI	R184TC-S
Performance	: 2	30/460 V 60 Hz 2P				
Rated current		1.8/5.90 A	Moment o	f inertia (J)	: 0.2079 sq.ft.	lb
LRC Rated torque	: 7 : 7	.8 .50 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	que : 2	20 %	Service fa	ctor	: 1.15	
Breakdown torque : 300 %			Temperati Design	ure rise	: 80 K : B	
Rated speed			Design		. U	
Heating constan						
Cooling constan Rev.	ι 	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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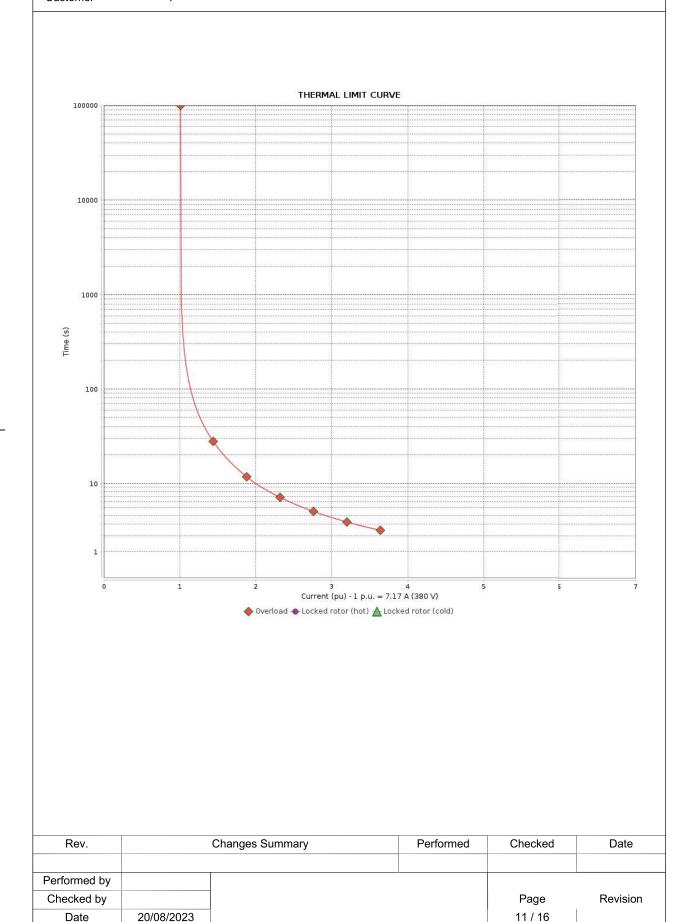


Customer	:					
Product line	: Rolled St Three-Pha	eel NEMA Premium Efficie	ncy	Product code :	12677336	
	111100 1 110			Catalog # :	00536ET3EF	R184TC - S
Performance		90 - 220/380 V 50 Hz 2P				
Rated current LRC	: 1 [,] : 6	4.3-12.4/7.17 A 4	Moment of Duty cycle	f inertia (J)	: 0.2079 sq.ft. : Cont.(S1)	lb
		.18 ft.lb	Insulation	class	: F	
Locked rotor torque : 180 %			Service fa		: 1.00	
Breakdown torque : 250 % Rated speed : 2860 rp			Temperatu Design	ire rise	: 105 K : B	
Heating constan			-			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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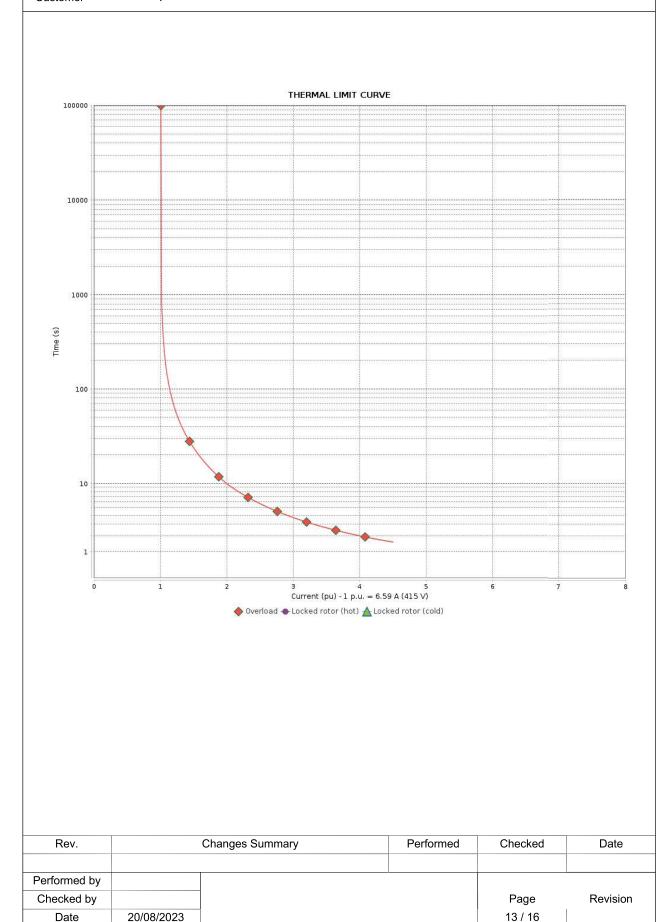


Customer	:					
Product line	: Rolled S Three-Pha	teel NEMA Premium Efficie	ncy	Product code :	12677336	
	mee-Pn	ase		Catalog # :	00536ET3EF	184TC - S
Performance	: 4	.15 V 50 Hz 2P				
Rated current		6.59 A	Moment o	f inertia (J)	: 0.2079 sq.ft.l	b
LRC	: 7	7.7	Duty cycle)	: Cont.(S1)	
Rated torque Locked rotor tord		0.10 ft.lb 220 %	Insulation Service fa		: F : 1.00	
Breakdown torque : 3		800 %	Temperatu		: 105 K	
Rated speed		885 rpm	Design		: B	
Heating constan						
Cooling constant	t	Ohamana O		David and 1	Obs. de la la	D.C.
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Three Phase Induction Motor - Squirrel Cage



Customer



VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



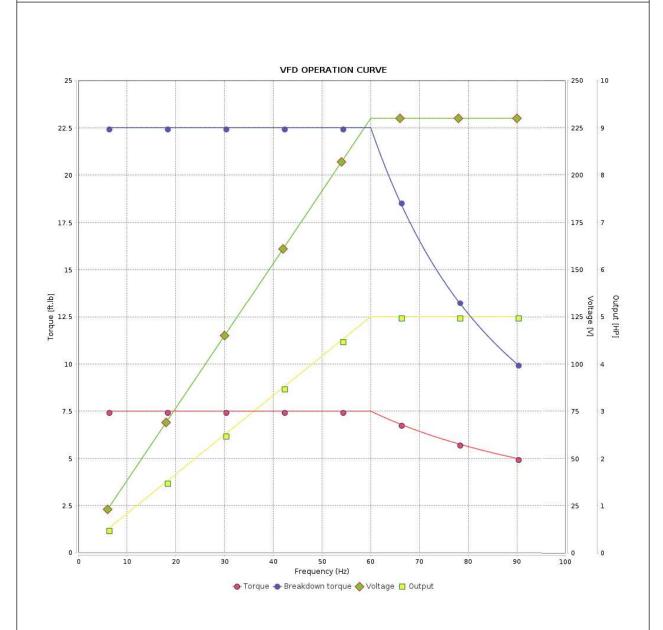
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 12677336

Catalog #: 00536ET3ER184TC-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)	
Rated torque	: 7.50 ft.lb : 220 %	Insulation class Service factor		: F : 1.15	
Locked rotor torque Breakdown torque	: 300 %			: 80 K	
Rated speed	: 3500 %	Temperature rise Design		: B	
Maleu Speeu	. 3300 Ipili	Design		. D	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

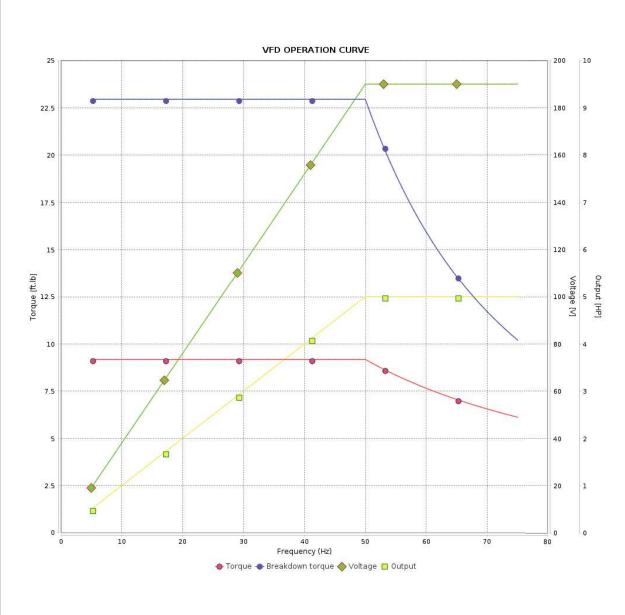
Product code :

12677336

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Catalog #:

00536ET3ER184TC-S



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

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



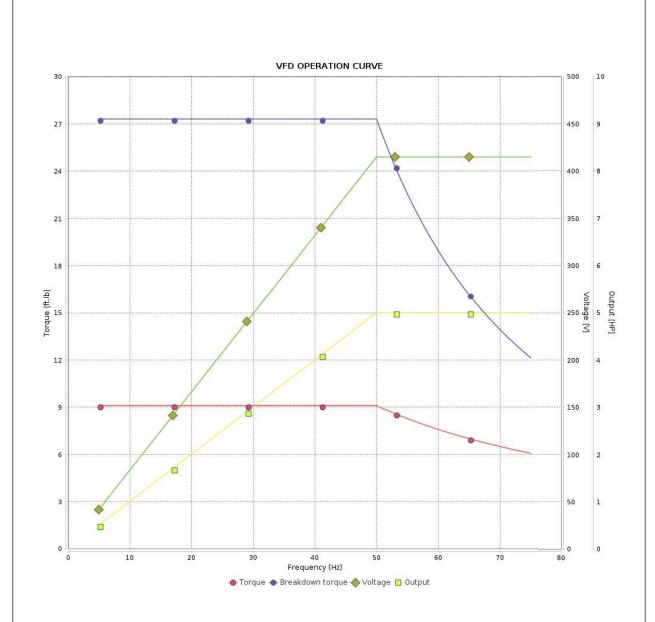
Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

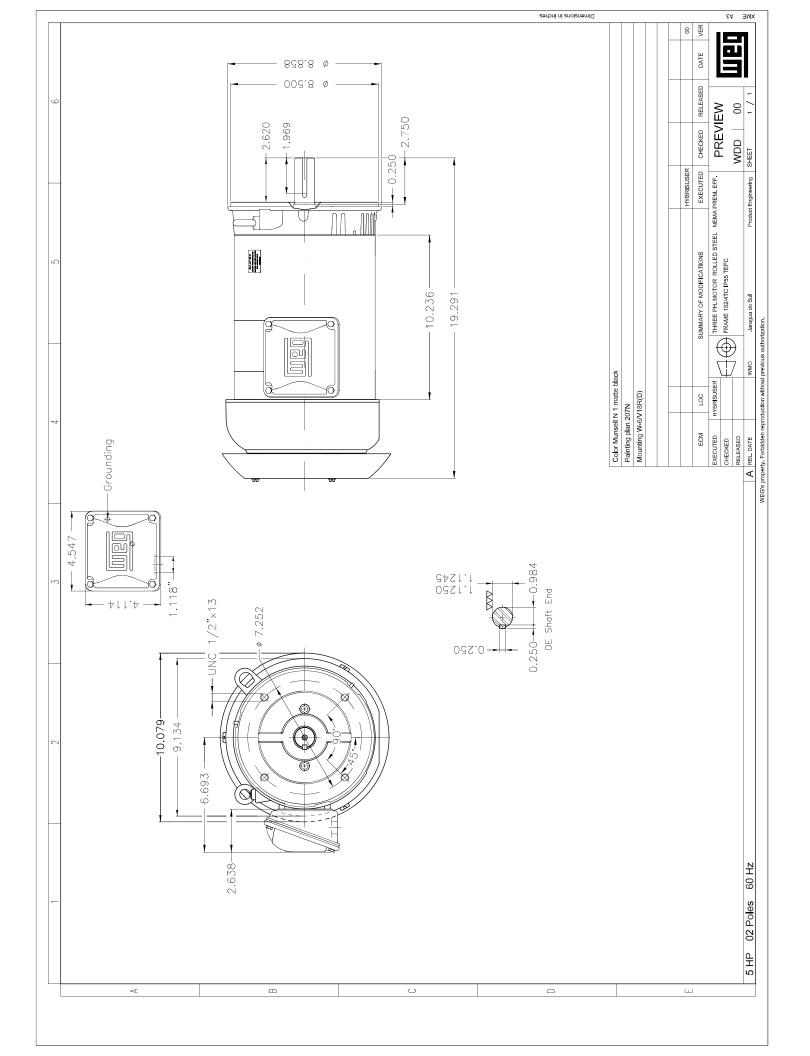
Product code: 12677336

00536ET3ER184TC-S Catalog #:



Performance		: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 6.59 A : 7.7 : 9.10 ft.lb : 220 % : 300 % : 2885 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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CODE 1

8 S30

99dI

AVERTISSEMENT. Le moteur doit être mile à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc electrique grave. Déconnectes l'alimentation avant l'entretien de la machine.

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION
WARNING: Moor much be gounded in secondence with local
and national electrical locales to prevent earloue electrical
shocks. Disconnect power source before servicing until.

ALTERNATE RATING: 5.0HP 50H2 100-220/380-415V 4F100 100-14 V1-10-14 V1-14 V1-10-14 V

KM 3'1 Hb 2'0



SOVAGO

TH.85.90

SF 1.15

PF 0.89

PF 0.89 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

12 13 19-RED BRK 12-BLK 18-RED 12-BLK 18-RED 13-OKG 14-YEL

6**1♦** 81 91 ςΙ**● ⊅**1♠

> MODEL 00536ET3ER184TC-5 CC059A 8EETT336 :TAM WYDE IN MEXICO

09 ZH

A1.81 @ 208V 13.1A SF1.00

ENCL TEFC

l.a.s.m 000f TJA TNOO YTUG

182/4TC

YMB 40°C INS CF F ∆T 80K

FR

For 60Hz: Class I, Zone 2, IIC Class I, DIV.2, Gr. A,B,C,D - T3