DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12677335

Catalog #: 00518ET3ER184TC-S

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

Insulation class Mounting : W-6

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 : 84.4 lb

Altitude Protection degree : IP55 Moment of inertia (J) : 0.3080 sq.ft.lb

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Design		: B		
Output [HP]		5	5	5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		13.0/6.49	15.8/7.88	14.3/7.59
L. R. Amperes [A]		90.9/45.4	91.4/45.7	91.6/48.6
LRC [A]		7.0x(Code J)	5.8x(Code G)	6.4x(Code H)
No load current [A]]	6.89/3.44	6.74/3.37	7.10/3.77
Rated speed [RPN	1]	1750	1425	1435
Slip [%]		2.78	5.00	4.33
Rated torque [ft.lb]		15.0	18.4	18.3
Locked rotor torqu	e [%]	220	170	200
Breakdown torque	[%]	300	229	260
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.2	89.7	88.2
Locked rotor time	50%	88.5	87.9	87.2
	75%	89.5	87.2	87.3
	100%	89.5	84.9	170 200 229 260 1.00 1.00 105 K 105 K Id) 0s (hot) 0s (cold) 0s (hot) 0 dB(A) 53.0 dB(A) 89.7 88.2 87.9 87.2 87.2 87.3 84.9 85.8 0.42 0.37
	25%	0.35	0.42	0.37
Power Factor	50%	0.60	0.68	0.63
	75%	0.73	0.80	0.76
	100%	0.80	0.84	0.82

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6205 ZZ Max. traction : 262 lb Sealing V'Ring Without Max. compression : 346 lb

Bearing Seal

Lubrication interval Lubricant amount Lubricant type

Mobil Polyrex EM

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



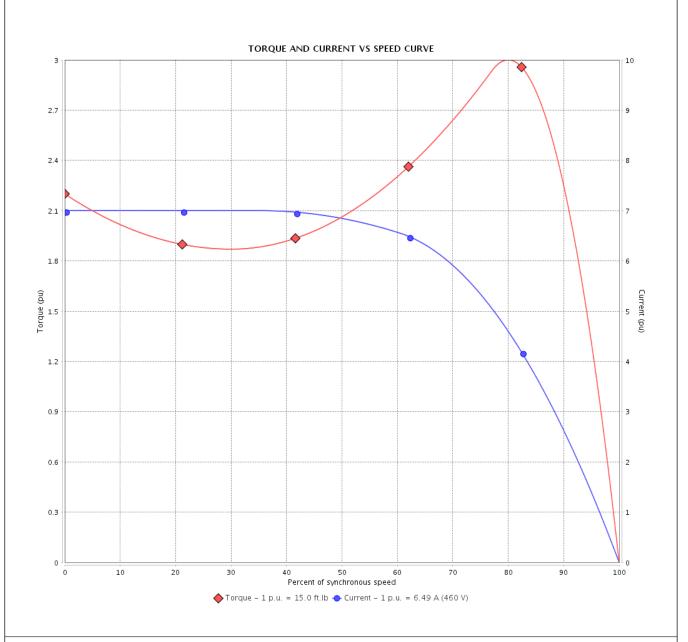
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12677335

Catalog #: 00518ET3ER184TC-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

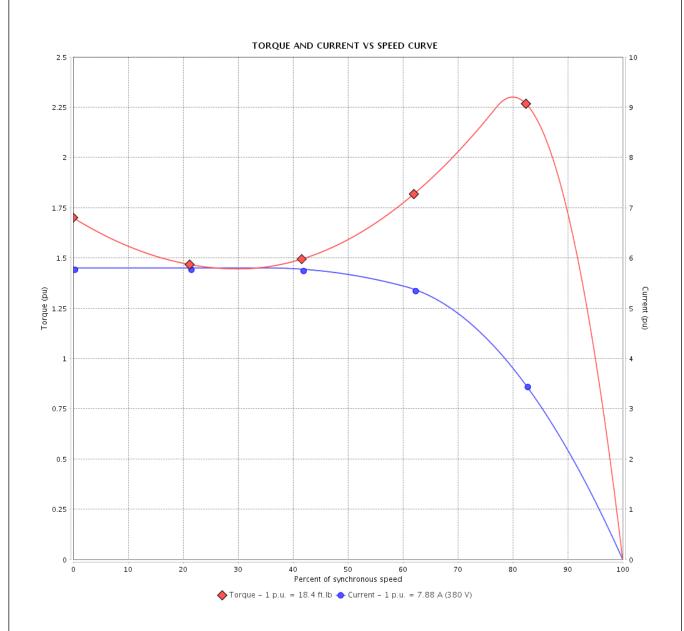
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12677335

Catalog #: 00518ET3ER184TC-S



Performance : 190/380 V 50 Hz 4P Rated current : 15.8/7.88 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 : 1.00 Locked rotor torque : 170 % Service factor Breakdown torque : 229 % Temperature rise : 105 K : B Rated speed : 1425 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



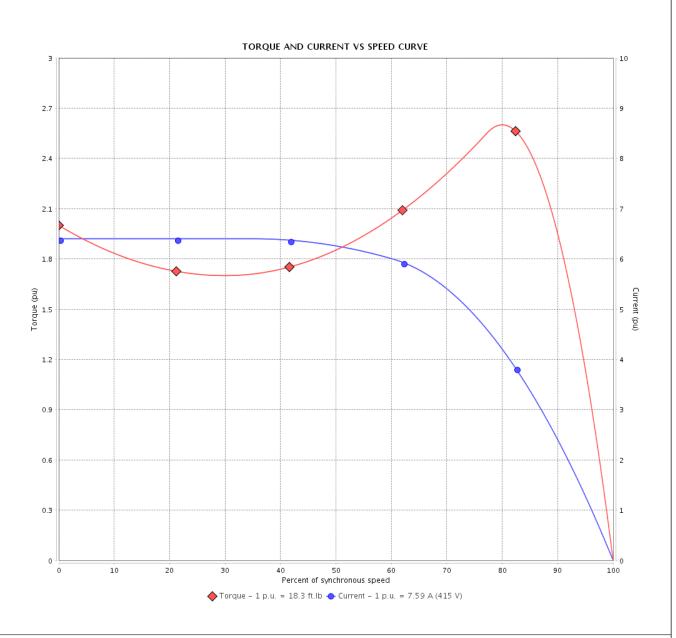
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12677335

Catalog #: 00518ET3ER184TC-S



Performance : 220/415 V 50 Hz 4P Rated current : 14.3/7.59 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.3 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1435 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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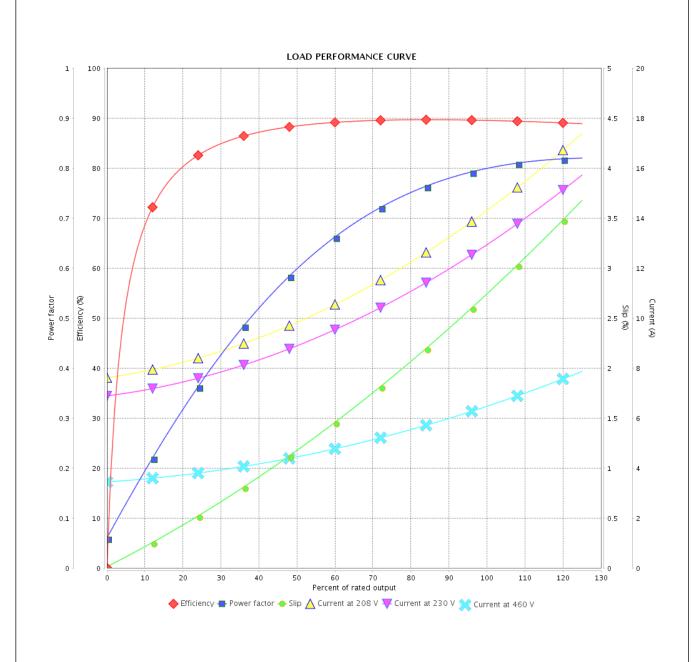


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677335

Phase

Catalog #: 00518ET3ER184TC-S



Performance	: 230/460 V 60 Hz 4P				
LRC : 7.0 Duty Rated torque : 15.0 ft.lb Insula Locked rotor torque : 220 % Servi Breakdown torque : 300 % Temp		Duty cycle Insulation cla Service facto	Insulation class Service factor Temperature rise		lb
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

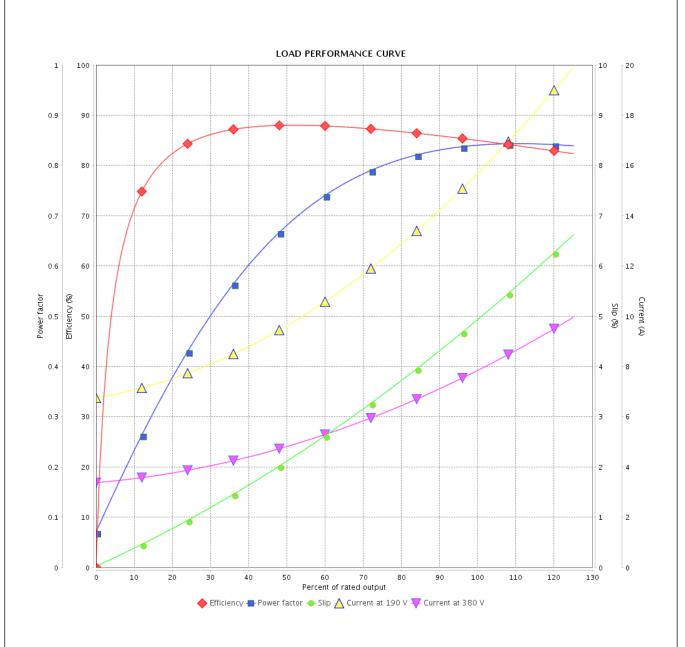
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12677335

Catalog #: 00518ET3ER184TC-S



Performance : 190/380 V 50 Hz 4P : 15.8/7.88 A Rated current Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 : 18.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



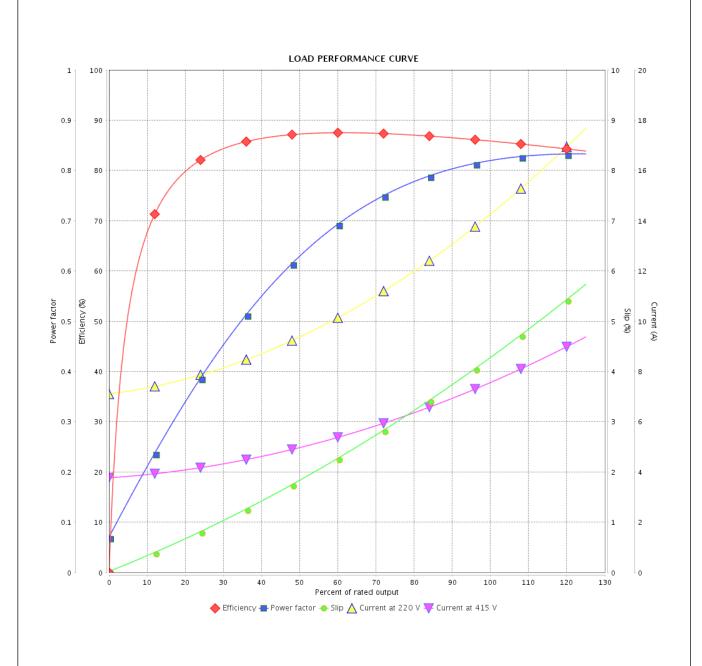
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677335

Phase

Catalog #: 00518ET3ER184TC-S

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Performance	: 220/415 V 50 Hz 4P	5 V 50 Hz 4P					
Rated current	: 14.3/7.59 A	9 A Moment of inertia (J)		: 14.3/7.59 A Moment of inertia (J)		: 0.3080 sq.ft.l	b
LRC	: 6.4	Duty cycle		: Cont.(S1)			
Rated torque	: 18.3 ft.lb	Insulation cl	ass	: F			
Locked rotor torque	: 200 %	Service factor Temperature rise		: 1.00			
Breakdown torque	: 260 %			: 105 K			
Rated speed	: 1435 rpm	Design		: B			
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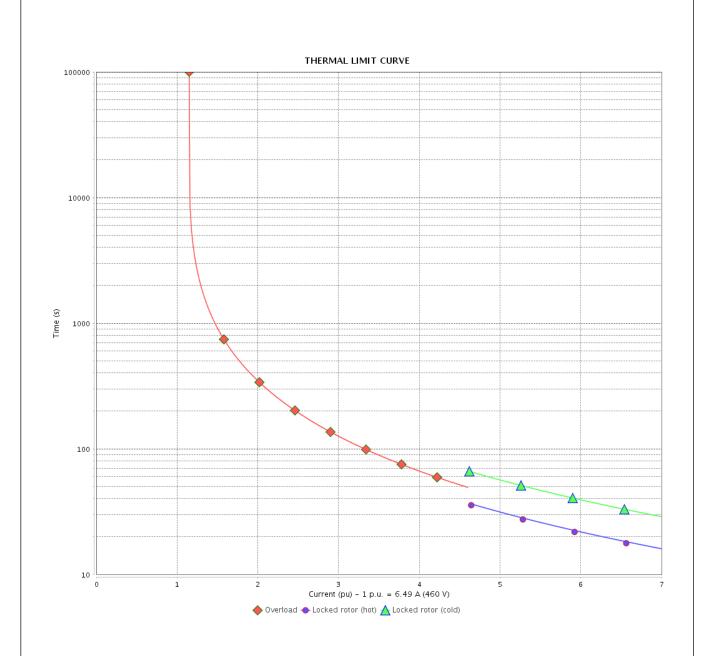


Customer	:			
Product line	: NEMA Premium Efficiency ¹ Phase	Three- Product code : Catalog # :	12677335 00518ET3EF	R184TC-S
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 13.0/6.49 A : 7.0	Moment of inertia (J) Duty cycle	: 0.3080 sq.ft.l : Cont.(S1)	b
Rated torque	: 15.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 300 % : 1750 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant	Characa Commercia	David	Oh s alsa -l	Data
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Three Phase Induction Motor - Squirrel Cage



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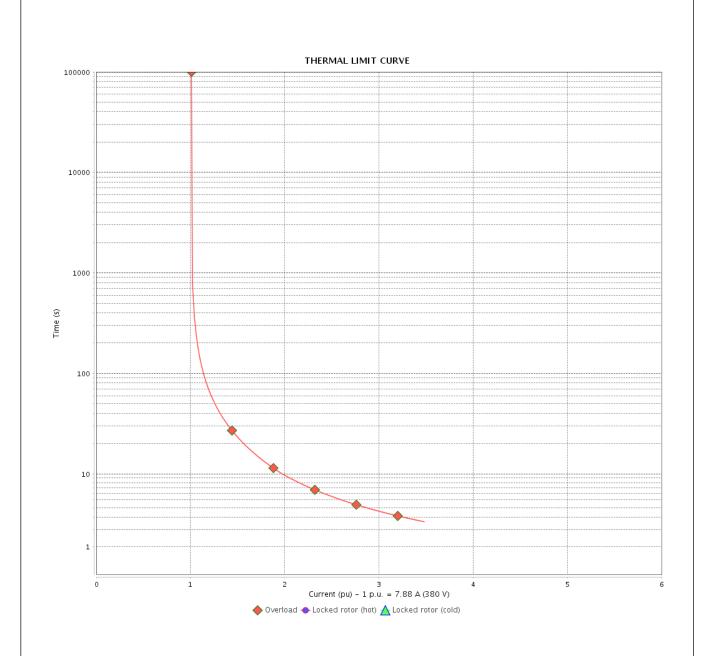


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12677335 00518ET3EF	R184TC-S
Performance	: 190/380 V 50 Hz 4P				
Rated current	: 15.8/7.88 A	Moment o	f inertia (J)	: 0.3080 sq.ft.	lb
LRC Rated torque	: 5.8 : 18.4 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 229 % : 1425 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant	·				
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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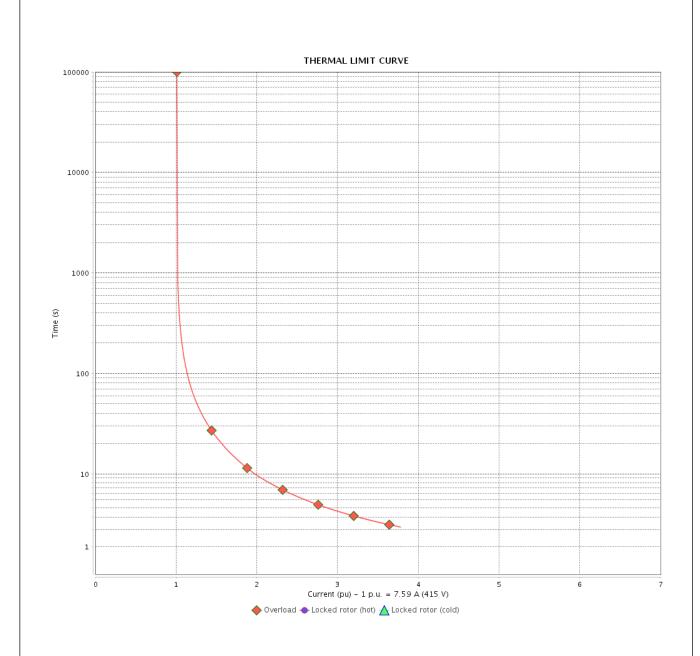


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12677335	
		Phase				1404TO O
				Catalog # :	00518ET3ER	
Performance		: 220/415 V 50 Hz 4P				
Rated current LRC		: 14.3/7.59 A : 6.4	Moment of Duty cycle	of inertia (J)	: 0.3080 sq.ft.ll : Cont.(S1)	b
Rated torque		: 18.3 ft.lb	Insulation	n class	: F	
Locked rotor tord		: 200 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 260 % : 1435 rpm	Temperat Design	ture rise	: 105 K : B	
Heating constan		1	3.3			
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



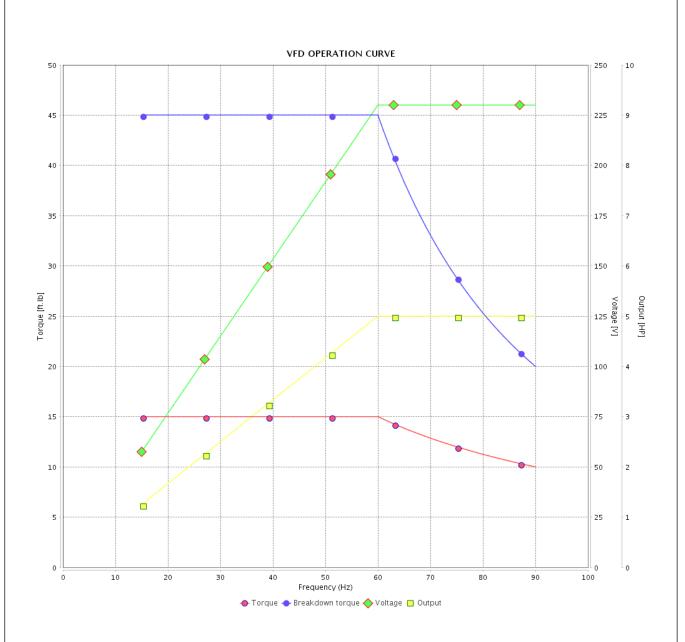
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12677335

Catalog #: 00518ET3ER184TC-S



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

Three Phase Induction Motor - Squirrel Cage

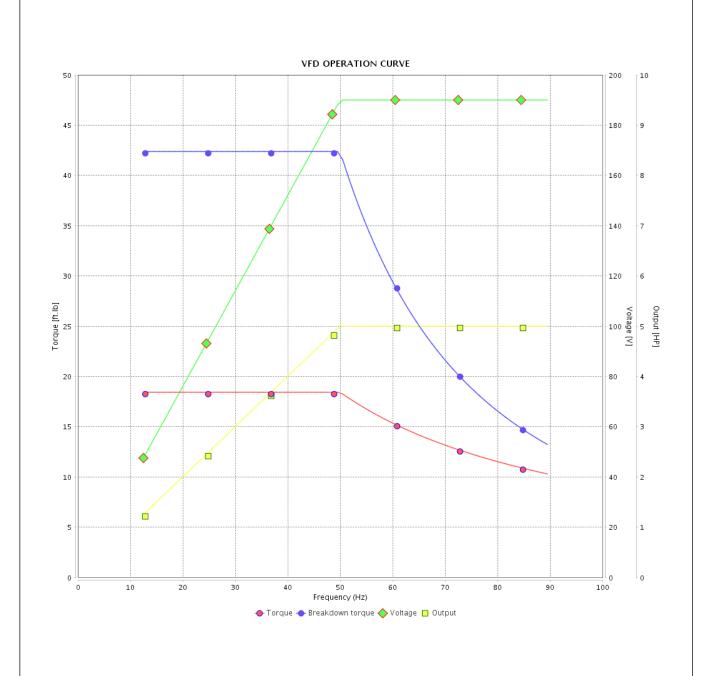


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677335

Phase

Catalog #: 00518ET3ER184TC-S



Performance	:	190/380 V 50 Hz 4P					
Rated current		15.8/7.88 A	.88 A Moment of inertia (J)		: 0.3080 sq.ft.lb		
LRC		5.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		8.4 ft.lb Insulation class		:F			
Locked rotor torq	ue :	70 % Service factor 29 % Temperature rise		: 1.00			
Breakdown torqu	e ::			ure rise	: 105 K		
Rated speed	:	1425 rpm	5 rpm Design		: B		
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VFD OPERATION CURVE

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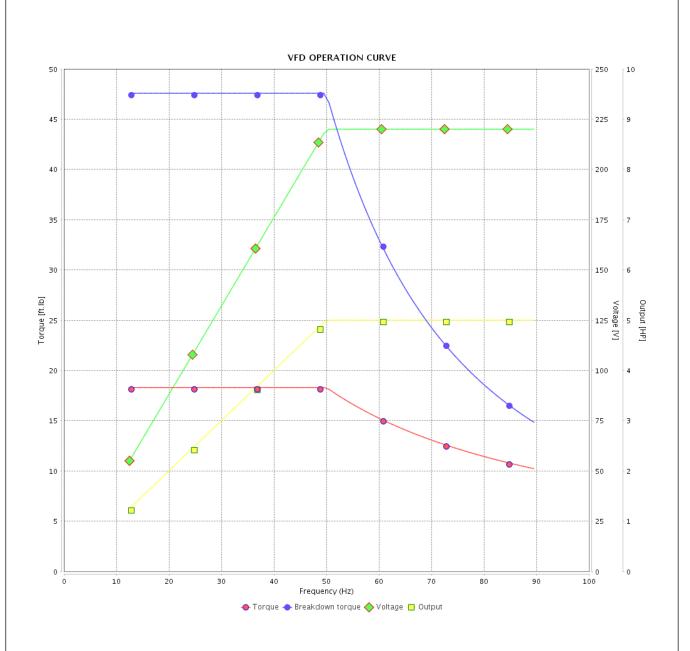
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

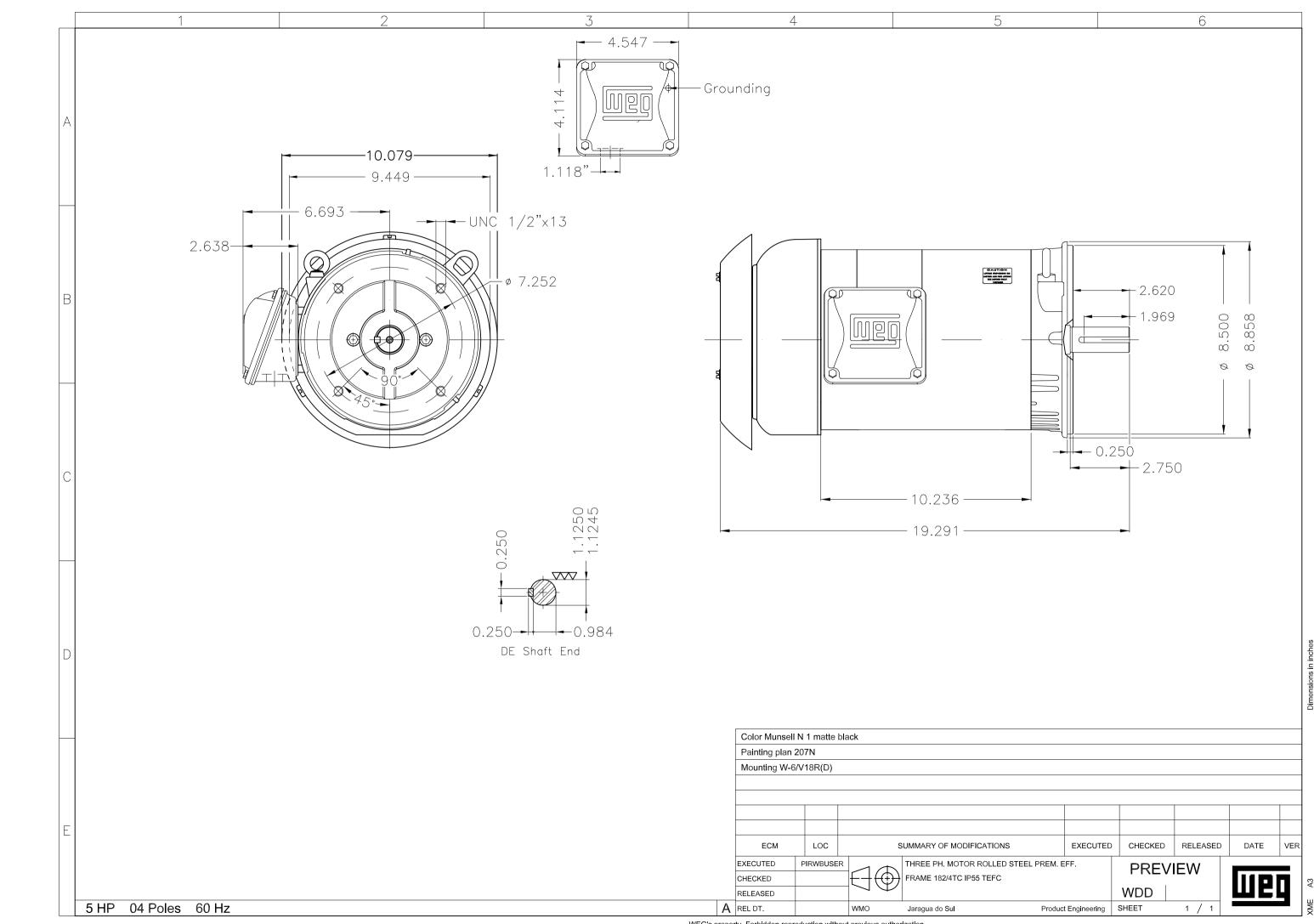
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Performance : 220/415 V 50 Hz 4P : 14.3/7.59 A Moment of inertia (J) : 0.3080 sq.ft.lb Rated current **LRC** : Cont.(S1) : 6.4 Duty cycle : 18.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1435 rpm Design : B

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Premiur NEX

FOR SAFE AREA

UL) USTED 3PT9

& Energy Verifi

MODEL 00518ET3ER184TC-S

Hz 60 S/N

04APR2022

182/4TC

CONT

13.0/6.49 14.9/7.46 230/460

3FA

P55

1000 m.a.s.l

F AT 80K

SCI

CODE SHO

TEFC 0

SABLE @ 208V 14.4A ALTERNATE RATING:

SF1.00 NCL W

N01.TE0IC0X0N 12677335

MADE IN MÉXICO

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)

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%** 89.5% 15 NOM EFF NEMA 1425RPM ZPM 냃 쌆 50 Hz

5.0HP

15.8-14.17.88-7.47A

8206-ZZ

牌

IEC 60034-1

SF1.00

ODE 6205-22 T6

T2-WHT T6-GRY T8-RED T4-YEL r3-org T7-PNK T9-BRK T5-BLK 1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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