DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Product code: 14593692 Efficiency Three-Phase Catalog #: 00518ET3EBMR184TC-S Frame : 182/4TC Locked rotor time : 28s (cold) 16s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 13.0/6.49 A Protection degree : IP55 L. R. Amperes : 90.9/45.4 A Cooling method : IC411 - TEFC LRC : 7.0x(Code J) Mounting : F-1 No load current : 6.89/3.44 A Rotation¹ : Both (CW and CCW) Rated speed : 1750 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 15.0 ft.lb Approx. weight³ : 96.6 lb Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.3080 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 89.5 : 290 lb Efficiency (%) 88.5 89.5 Max. traction Power Factor 0.80 : 386 lb 0.60 0.73 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6205 ZZ Sealing V'Ring V'Ring 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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DATA SHEET

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Three Phase Induction Motor - Squirrel Cage			<u> </u>		
Customer	:				
Voltage: 208-230 Brake Torque: 25	0/460//190/380 V 5.1 ft.lb	Brake information	n		
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



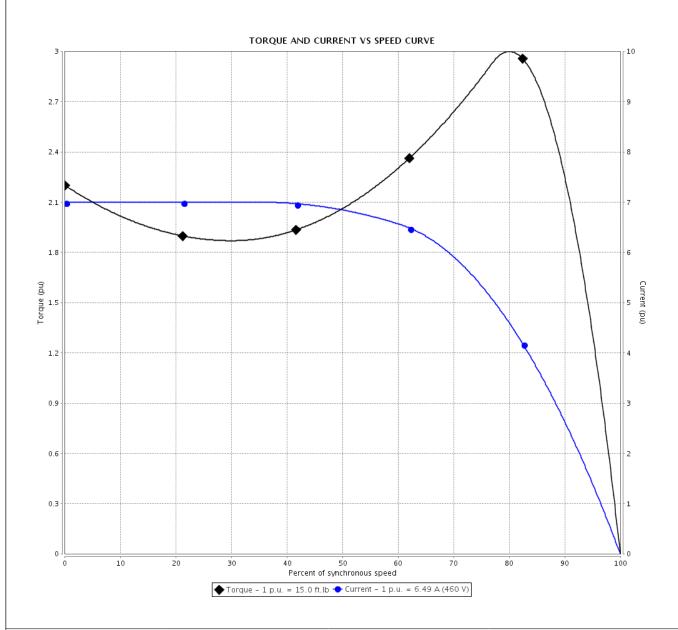
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 14593692

Catalog #: 00518ET3EBMR184TC-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) : 15.0 ft.lb Insulation class : F Rated torque : 220 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1750 rpm Design

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

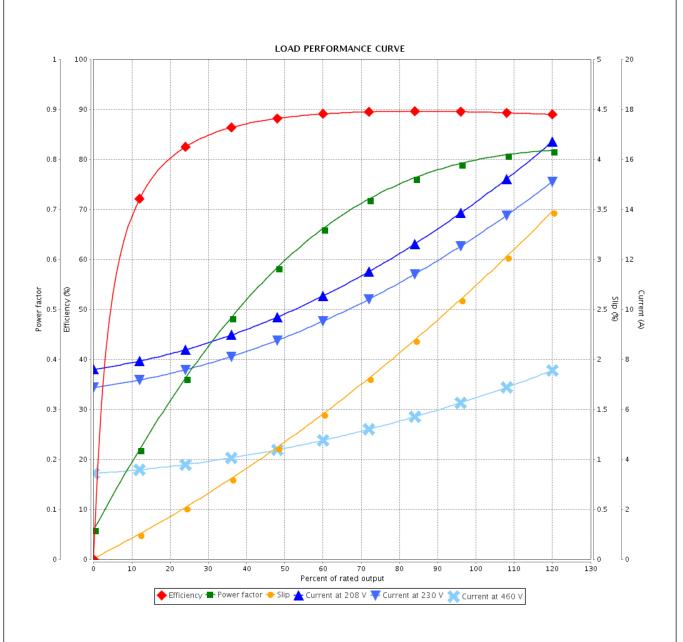
Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 14593692

Catalog #: 00518ET3EBMR184TC-S

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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)			
Rated torque	: 15.0 ft.lb	Insulation class		:F			
Locked rotor torque	: 220 %	Service factor		: 1.15			
Breakdown torque	: 300 %	Temperature rise		: 80 K			
Rated speed	: 1750 rpm	Design		: B			
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



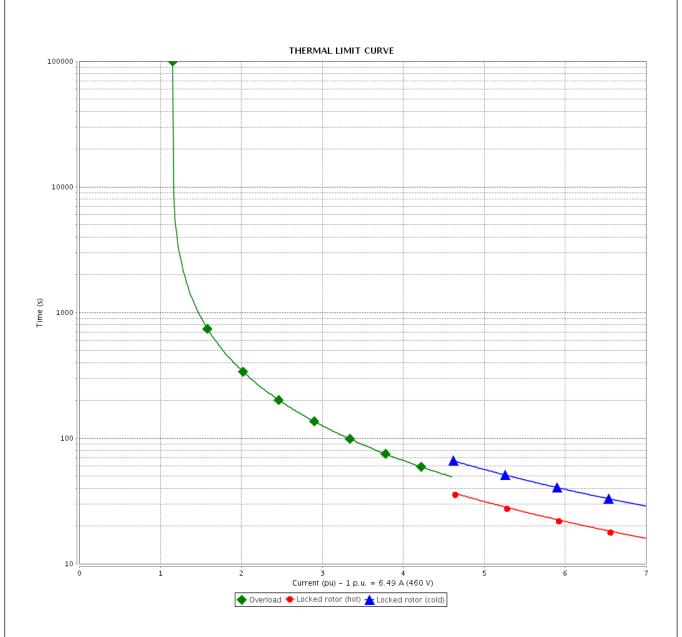
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Product line		Dollad Stool NEMA Decision	ım	Droduct and :	14502000	
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		IM	Product code :	14593692	
		•		Catalog # :	00518ET3EI	BMR184TC-S
Performance		30/460 V 60 Hz 4P 3.0/6.49 A	Moment	finartia (I)	. 0.2020 og ft	lh.
Rated current LRC	: 1 : 7		Duty cycle	of inertia (J)	: 0.3080 sq.ft. : Cont.(S1)	ID
Rated torque		5.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		20 % 00 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		750 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Date

10/04/2020

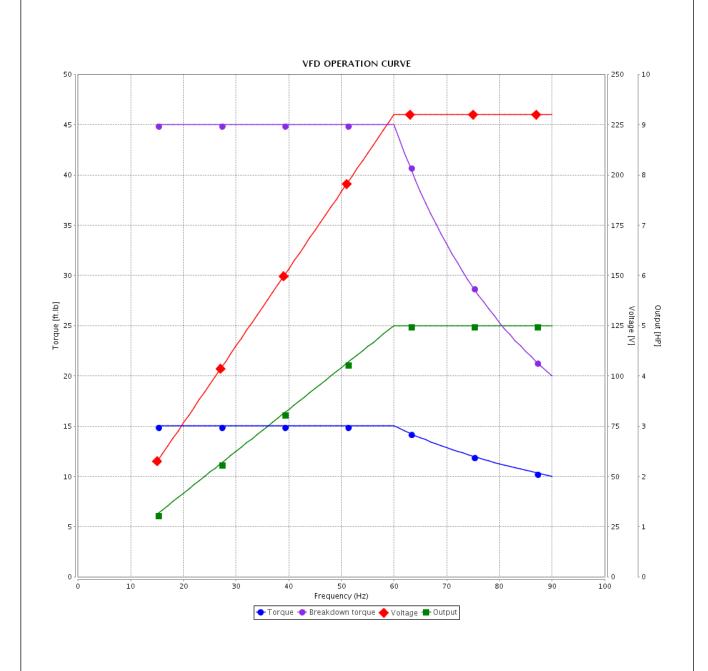
Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

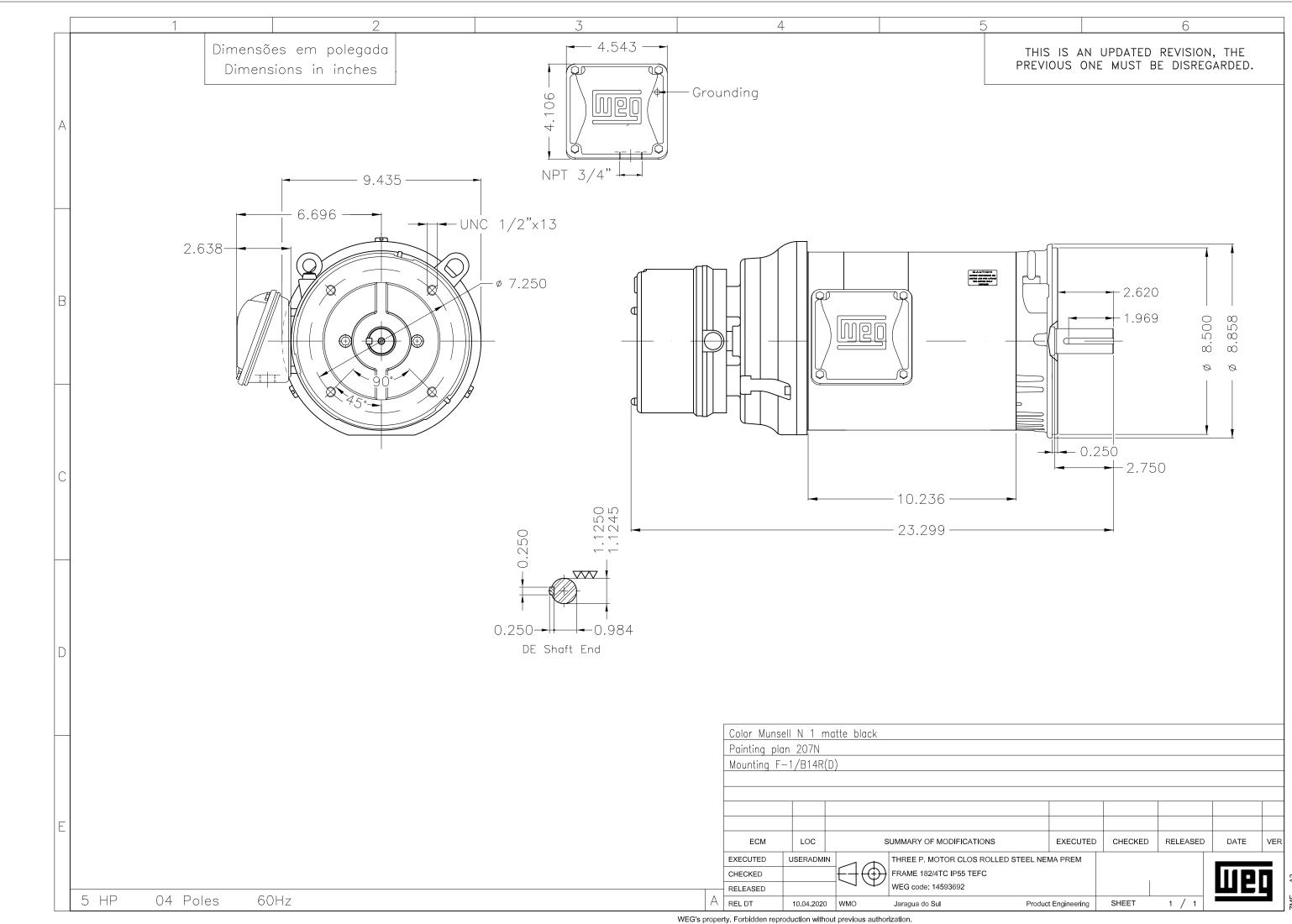
Product code: 14593692

Catalog #: 00518ET3EBMR184TC-S

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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)	
Rated torque	: 15.0 ft.lb	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1750 rpm	Design		: B	
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CC029A

Class I, Dlv.2, Gr. A.B.C.D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1 (**() Energy Verified** For 60Hz: Class I, Zone 2, (**4L)** usted 3PT9 RPM

B ENCL ř DES CONT 40°C 1750 CODE Z D D

9

5.0(3.7)

HP(kW)

182/4TC

뚠 230/460

PH 3

SFA 14.9/7.46

13.0/6.49

MODEL 00518ET3EBMR184TC-S

W01.TE0IC0X0N

MAT: 14593692

S/N

03ABR2019

255

> 190-220/380-415V 14.4A NEMA NOM, EFF. 89.5% 80K AMB USABLE @ 208V 50Hz 5.0HP INS CL F AT

SF1.00

EFF 84.9% (IE1) IEC 60034-1 1425RPM

15.8-14.1/7.88-7.47A

T6

ALTERNATE RATING:

m.a.s.l.

1000

0.80 SF 1.15

T2-WHT T4-YEL T6-GRY T8-RED

SF1.00

r3-org r1-BLU 15-BLK

L7-PNK

P-BRK RED

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local and national For safe area-inverter duty For 80Hz use on VPWM 1000:1 VT, 6205-ZZ ODE 6206-ZZ

MOBIL POLYREX EM electrical codes to prevent serious electrical shocks. Disconnect power AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc

source before servicing unit.

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine