

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 14593673

Catalog # : 00518ET3EBM184T-S

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.0/6.49 A
L. R. Amperes : 90.9/45.4 A
LRC : 7.0x(Code J)
No load current : 6.89/3.44 A
Rated speed : 1750 rpm
Slip : 2.78 %
Rated torque : 15.0 ft.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

Locked rotor time : 28s (cold) 16s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 89.0 lb

Output	50%	75%	100%
Efficiency (%)	88.5	89.5	89.5
Power Factor	0.60	0.73	0.80

Foundation loads
Max. traction : 293 lb
Max. compression : 382 lb

	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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Checked by				
Date	10/04/2020			

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:

Brake information

Voltage: 208-230/460//190/380 V

Brake Torque: 25.1 ft.lb

Rev.

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10/04/2020

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Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

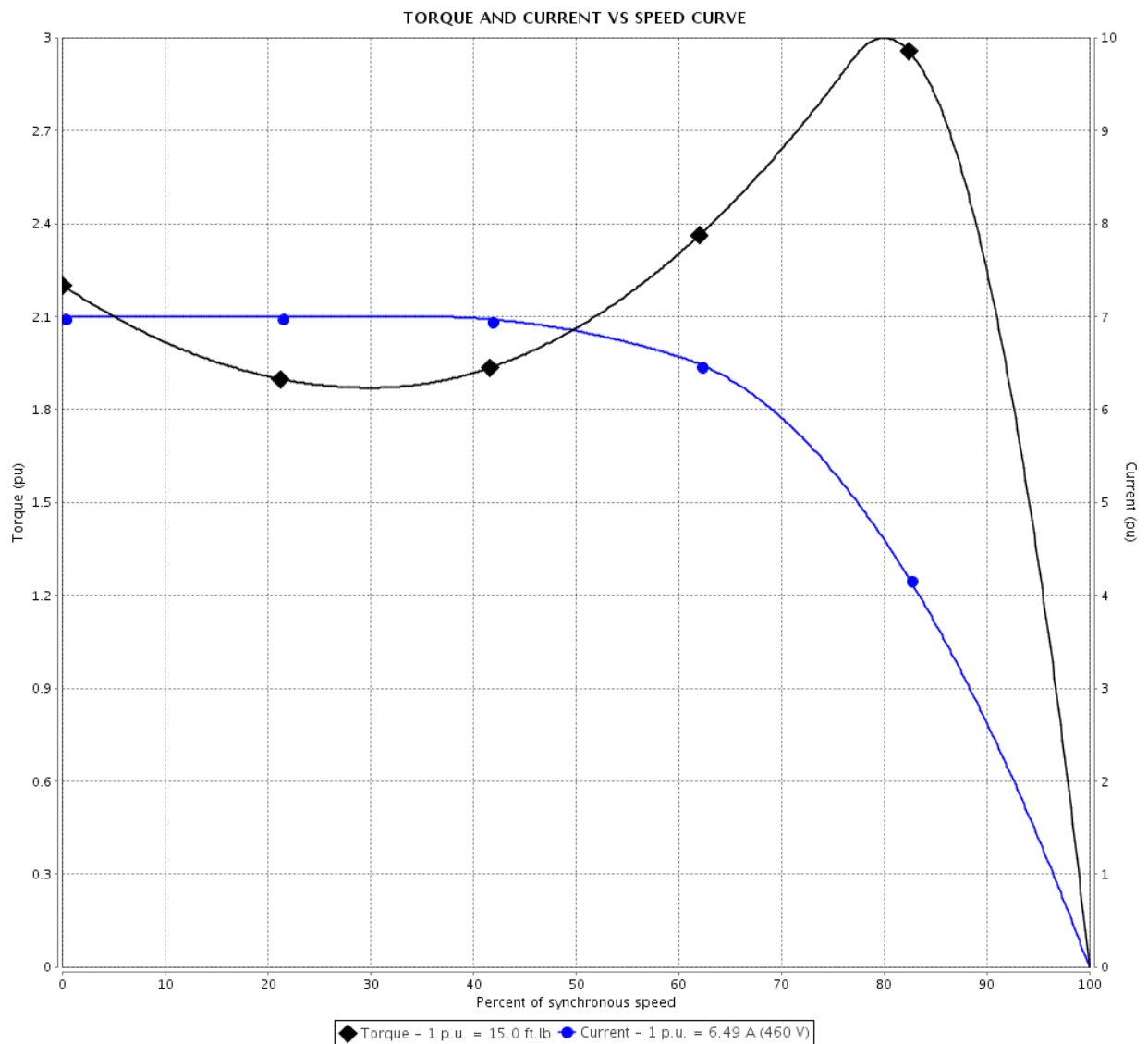


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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line

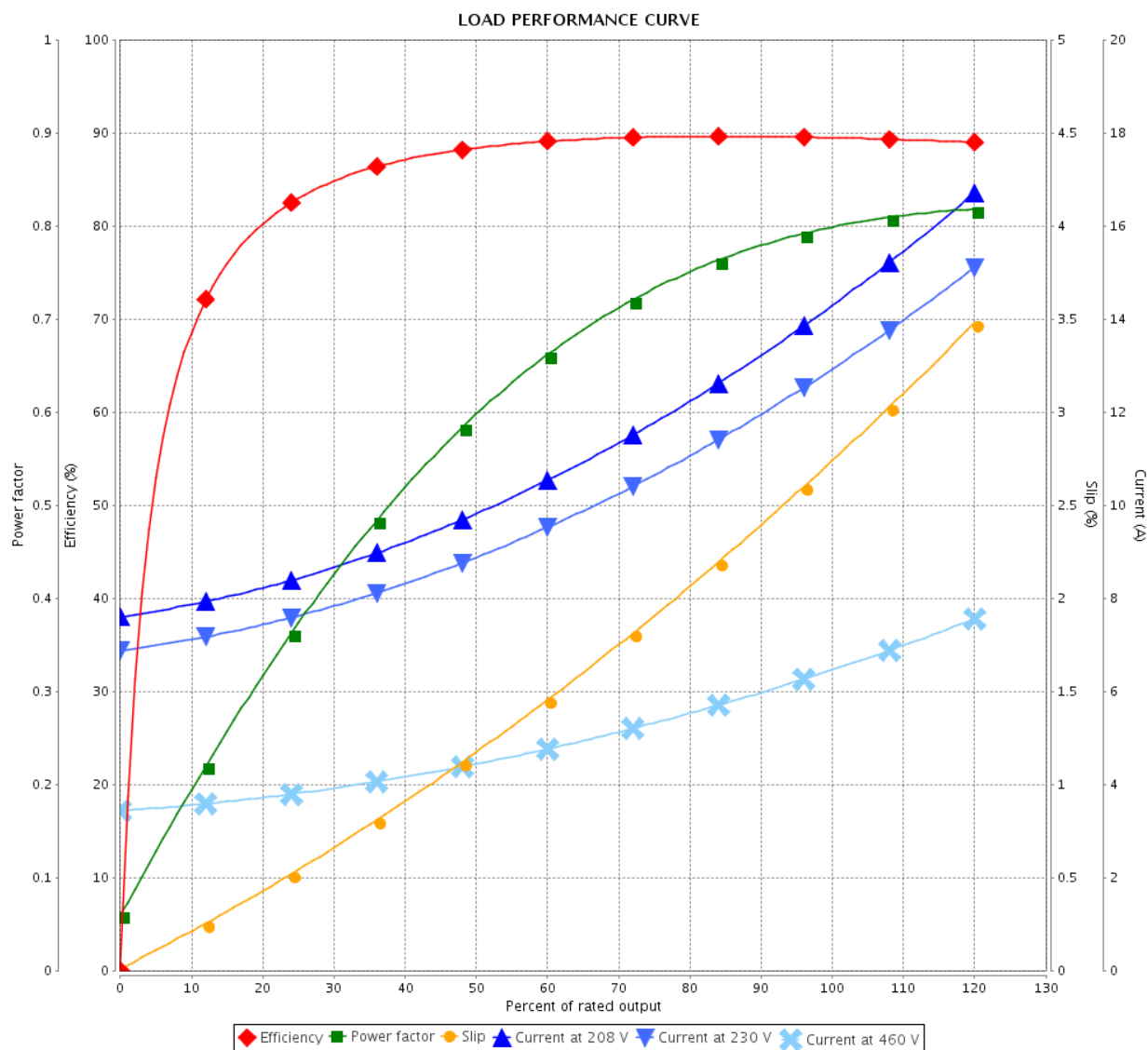
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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

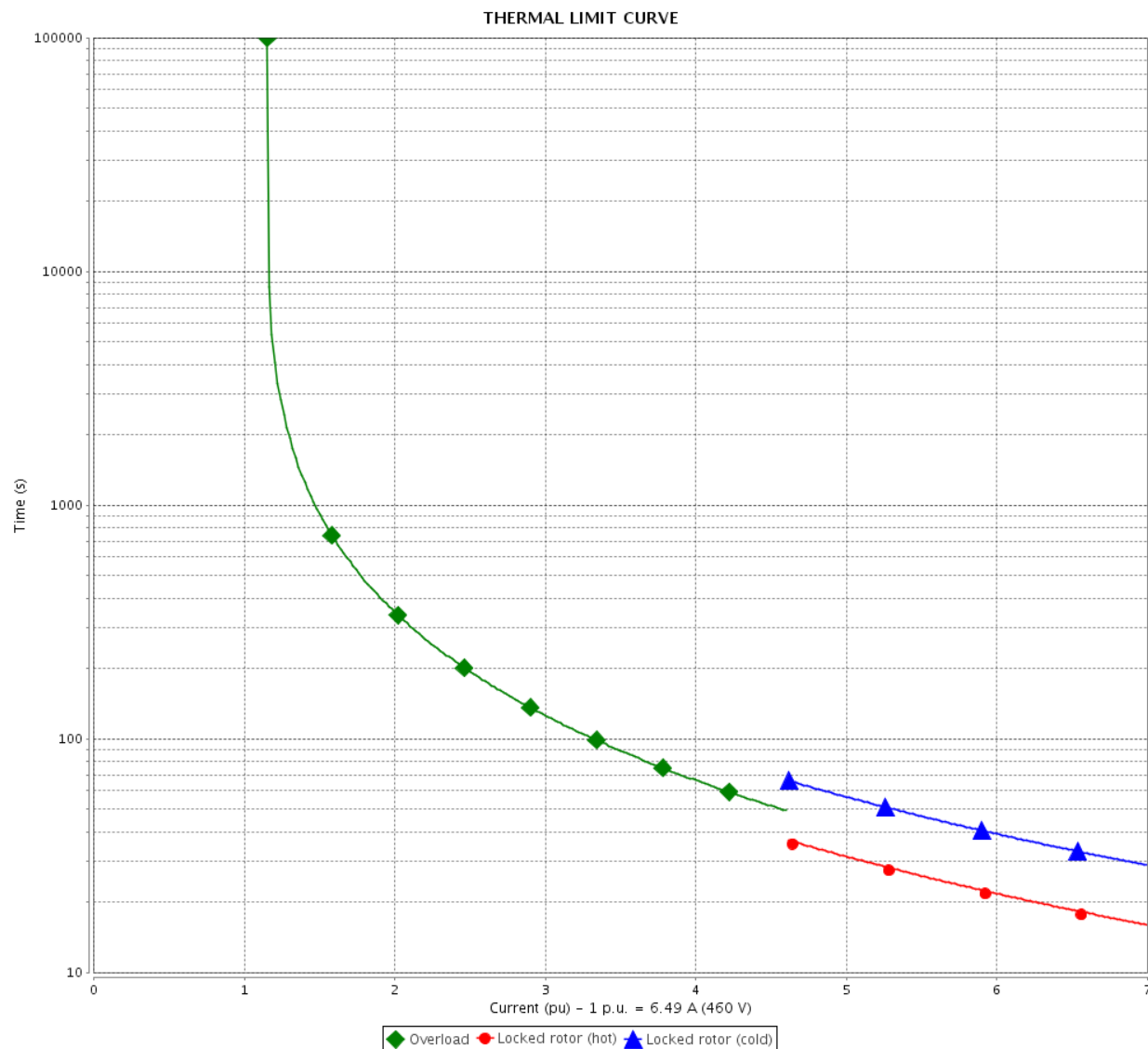
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THERMAL LIMIT CURVE

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VFD OPERATION CURVE

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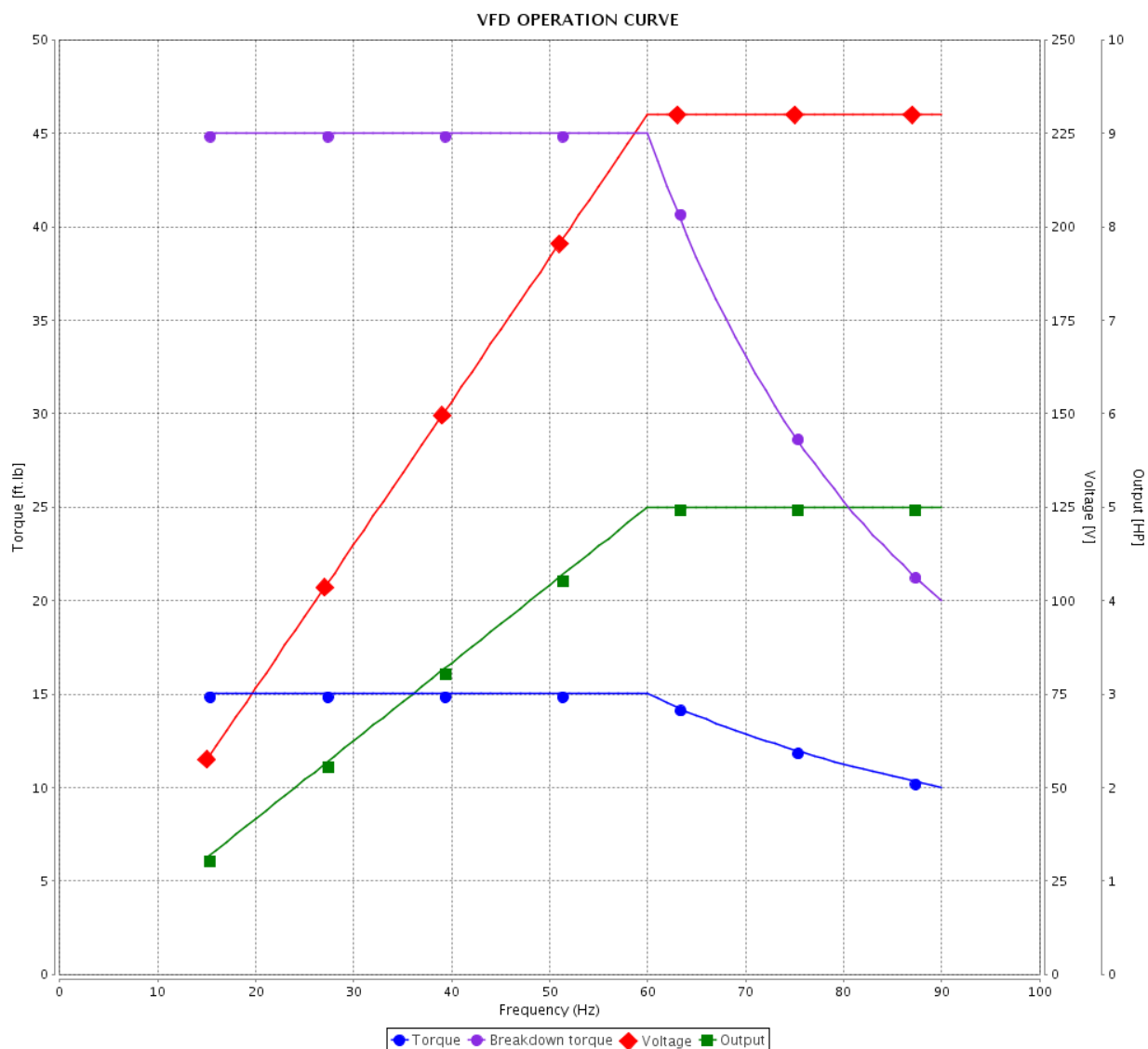


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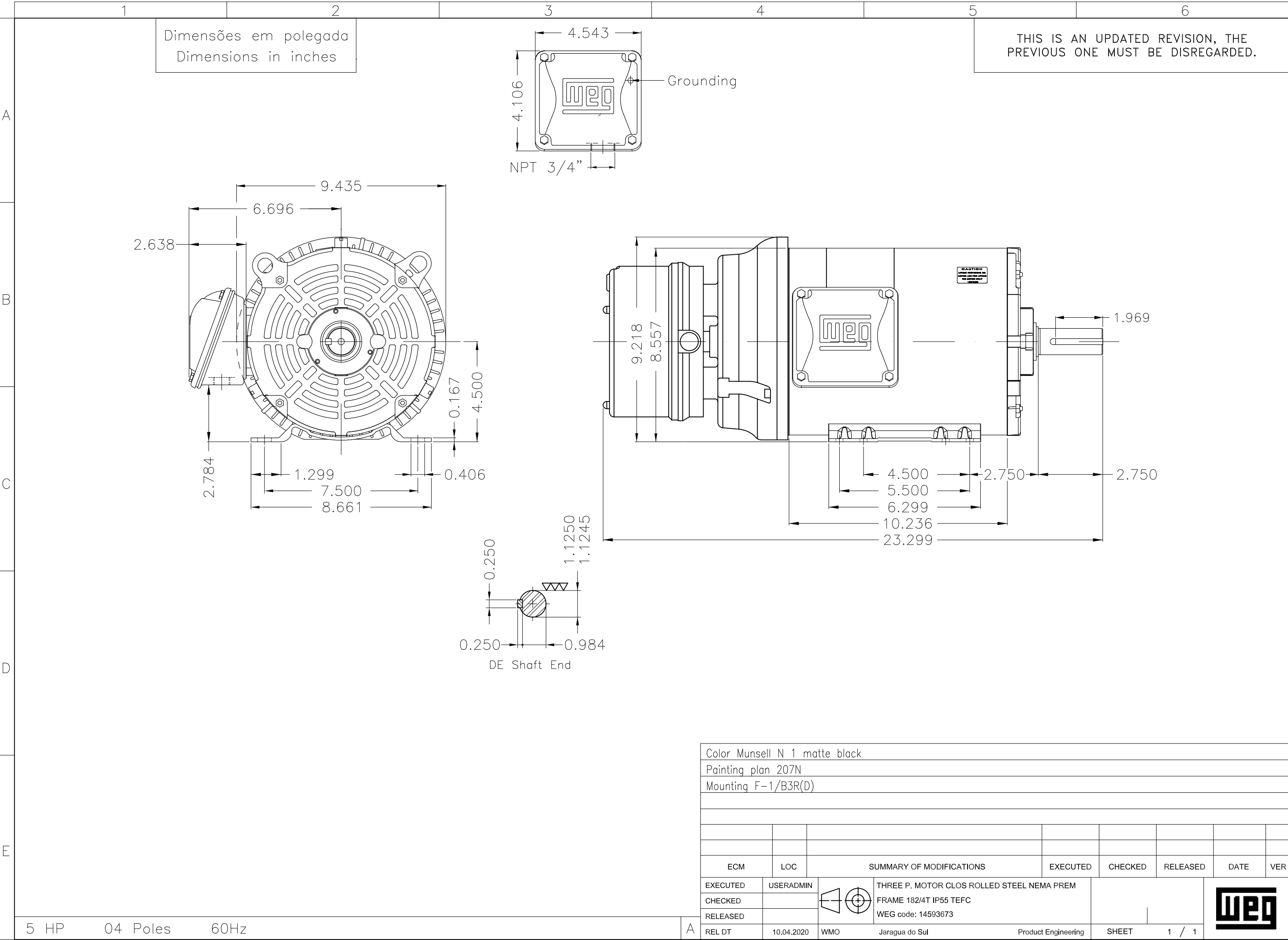


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NEMA
Premium



3PT9
UL
C US LISTED
FOR SAFE AREA



Energy Verified

MADE IN MEXICO

MAT: 14593673 CC029A

W01.TE0IC0X0N

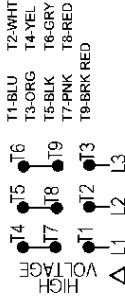
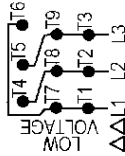
MODEL 00518ET3EBM184T-S

26MAR2019 S/N:

For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)

CT 2:1/VT 1000:1

PH 3	FR	182/4T	HP(KW)	5.0(3.7)	Hz	60
V	230/460		RPM	1750		
A	13.0/6.49		DUTY CONT.			
SFA	14.9/7.46		CODE J	DES B	IP55	
SF 1.15	INS CL F	AT 80K	AMB 40°C	ENCL	TEFC	
PF 0.80			NEMA NOM.EFF. 89.5%			
ALT 1000	m.a.s.l.	USABLE @ 208V	14.4A	SF1.00		
ALTERNATE RATING:	5.0HP	50Hz	190-220/380-415V	SF1.00		
15.8-14.1/7.88-7.47A	1425RPM	EFF 84.9% (IE1)	IEC 60034-1			



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

For safe area-Inverter duty For 60Hz use on VPWM 1000:1 VT, 4:1 CT

DE: 6206-ZZ ODE: 6205-ZZ MOBIL POLYREX EM

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

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

