DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13181453
		Catalog # :	01536ET3E215JM-S

Frame	: 213/5JM	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 34.0/17.0 A	Protection degree	: IP55
L. R. Amperes	: 279/139 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code J)	Mounting	: F-1
No load current	: 12.4/6.20 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3535 rpm	Noise level[2]	: 70.0 dB(A)
Slip	: 1.81 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight[3]	: 171 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.6341 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%
Efficiency (%)	90.0	90.2	91.0	91.0
Power Factor	0.49	0.76	0.85	0.89

Foundation loads

Max. traction	: 329 lb
Max. compression	: 500 lb

		Drive end	Non drive end
Bearing type	:	6209 ZZ	6206 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes
USABLE @208V 37.6A SF 1.00 SFA 37.6A

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.

Rev.	Changes Summary	Performed	Checked	Date

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LOAD PERFORMANCE CURVE

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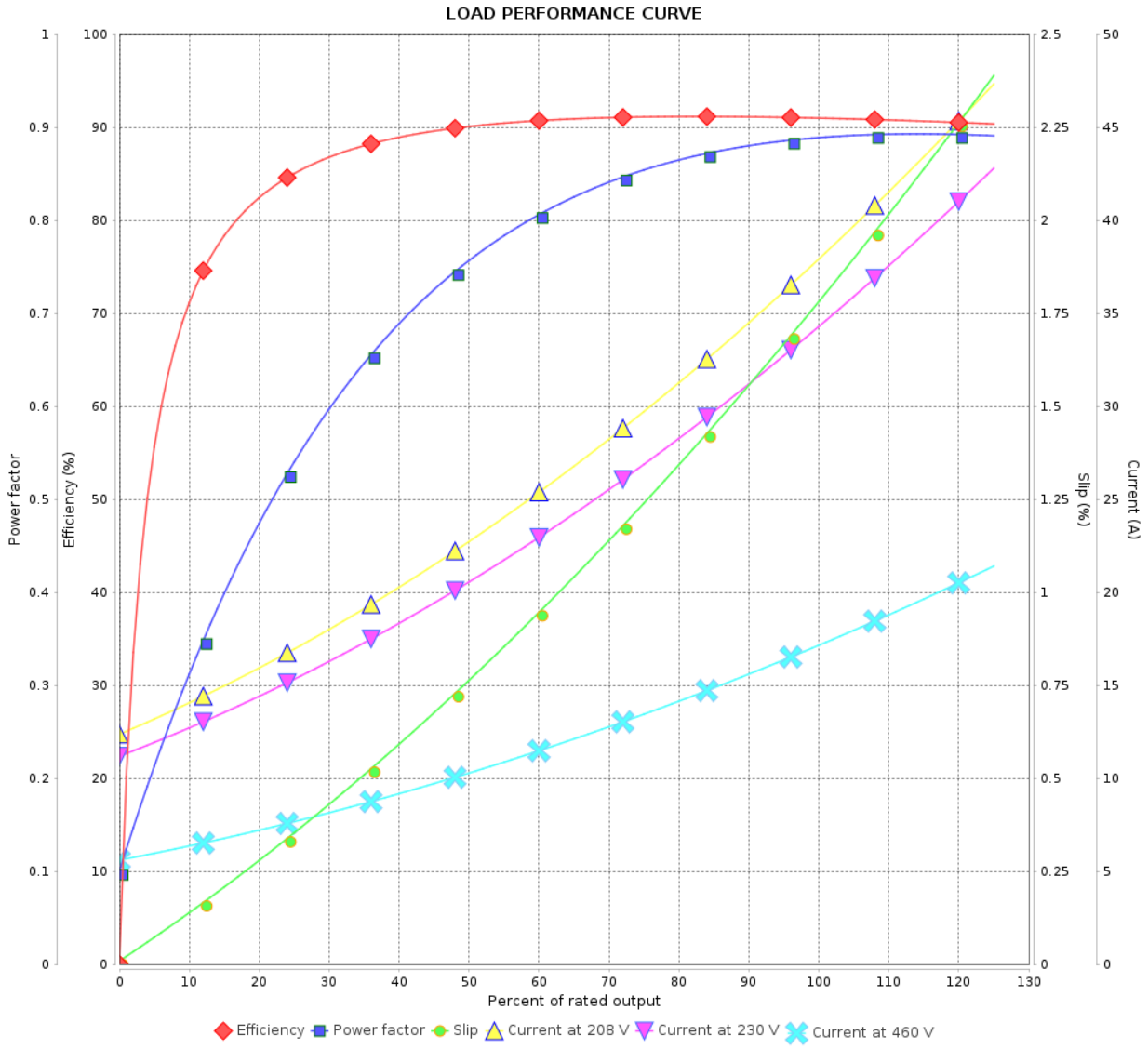

Performance	: 230/460 V 60 Hz 2P		
Rated current	: 34.0/17.0 A	Moment of inertia (J)	: 0.6341 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: A

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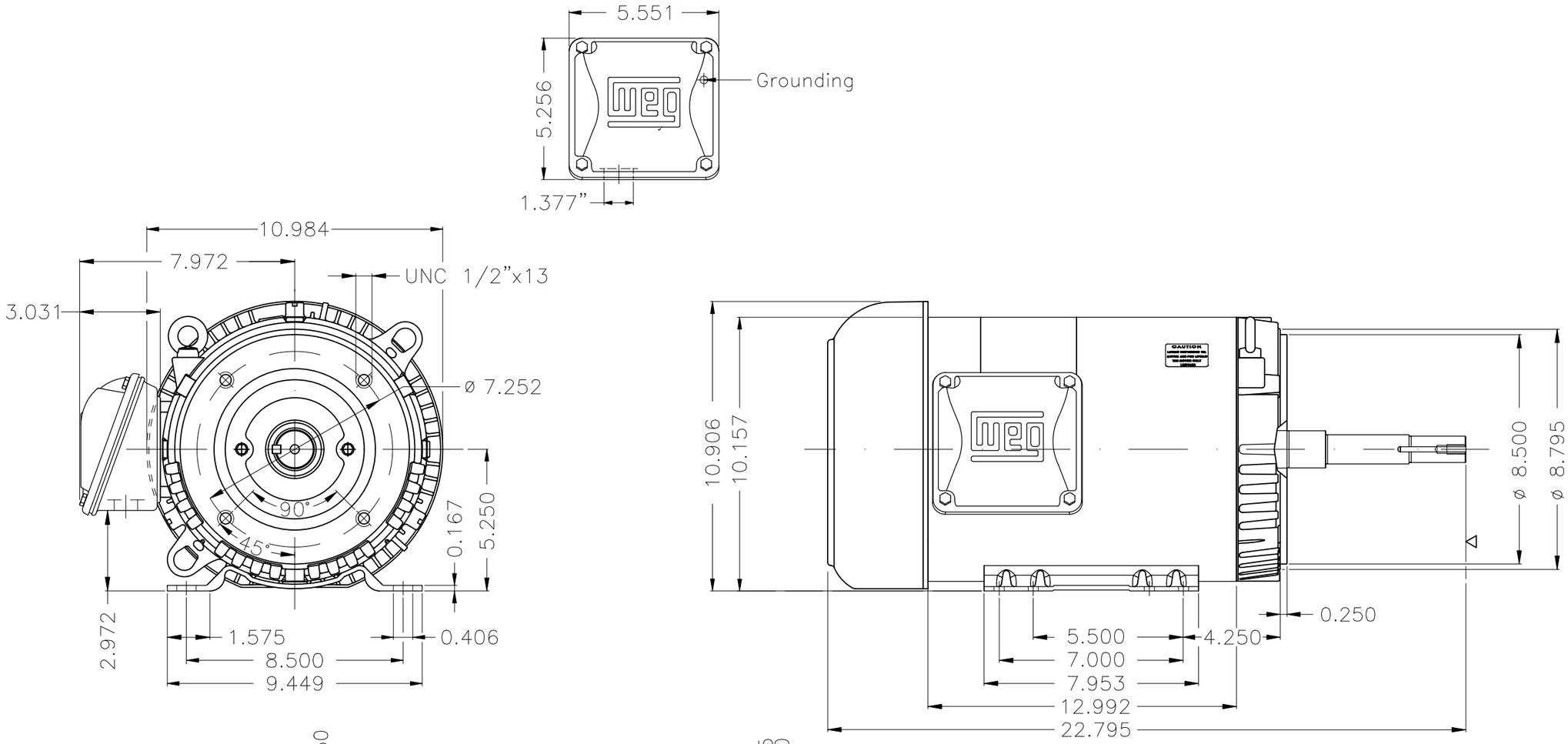


Design A

Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JM TYPE, NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5JM IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

15 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

NEMA Premium®

3PT9 C UL US LISTED FOR SAFE AREA

C SA US Energy Verified

MADE IN MÉXICO

MAT: 13181453 CC029A
W01.TE0IC0X0N
MODEL 01536ET3E215JM-S

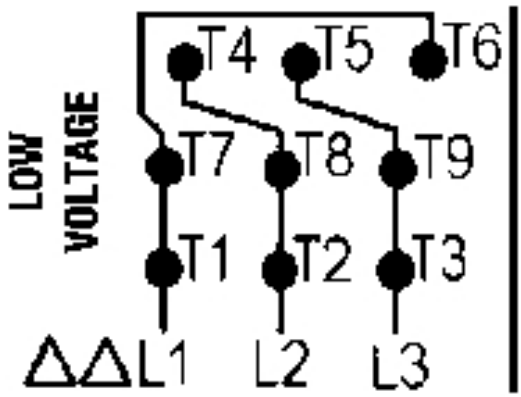
For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

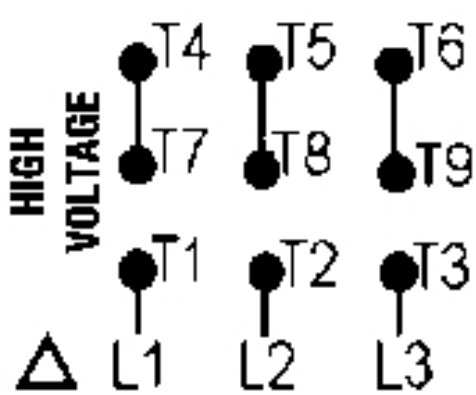
PH 3	Hz 60	HP	15
FR 213/5JM		kW	11
DUTY CONT.		V	230/460
ALT 1000 m.a.s.l		A	34.0/17.0
INS CL F ΔT 80K	IP55	SFA	39.1/19.5
AMB 40°C	DES A	SF	1.15
ENCL TEFC	CODE J	PF	0.89
		RPM	3535
		NEMA NOM. EFF	91.0%

ALTERNATE RATING: 10HP 50Hz 190-220/380-415V SF1.15
28.8-26.2/14.4-13.9A 2950RPM EFF 91.1% (IE3) IEC 60034-1

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT

DE 6209-ZZ	ODE 6206-ZZ	MOBIL POLYREX EM	





T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-RED BRK

INTERCHANGE 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 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.