DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13482796

Frame	: 213/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 57.3 kg
Design	: B	Moment of inertia (J)	: 0.0546 kgm²

Output [HP]		10	10	10
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		24.8/12.4	29.8-25.7/14.9	14.0
L. R. Amperes [A]		174/86.8	191-165/95.4	106
LRC [A]		7.0x(Code H)	6.4x(Code G)	7.6x(Code J)
No load current [A]		12.0/5.99	11.8-10.2/5.89	6.93
Rated speed [RPM]		1770	1460	1470
Slip [%]		1.67	2.67	2.00
Rated torque [kgfm]		4.10	4.97	4.94
Locked rotor torque [%]		250	200	250
Breakdown torque [%]		350	250	300
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%			
	50%	90.2	90.1	89.1
	75%	91.0	89.7	89.7
	100%	91.7	88.1	89.0
Power Factor	25%			
	50%	0.64	0.72	0.64
	75%	0.77	0.82	0.77
	100%	0.83	0.87	0.84

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

Foundation loads
Max. traction : 245 kgf
Max. compression : 303 kgf

Notes
USABLE @208V 27.4A SF 1.00 SFA 27.4A

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.

Rev.	Changes Summary	Performed	Checked	Date

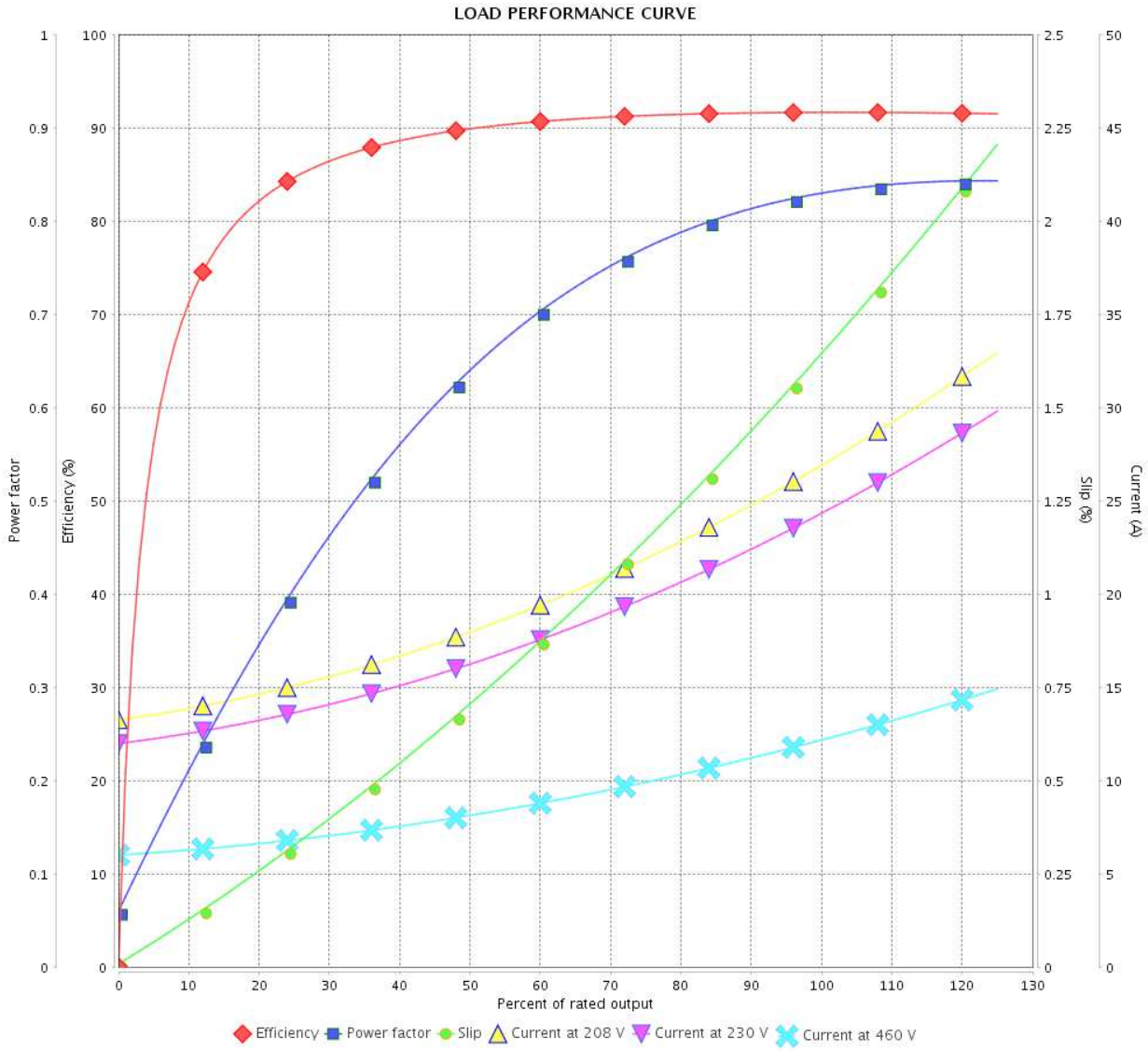
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13482796



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 24.8/12.4 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 4.10 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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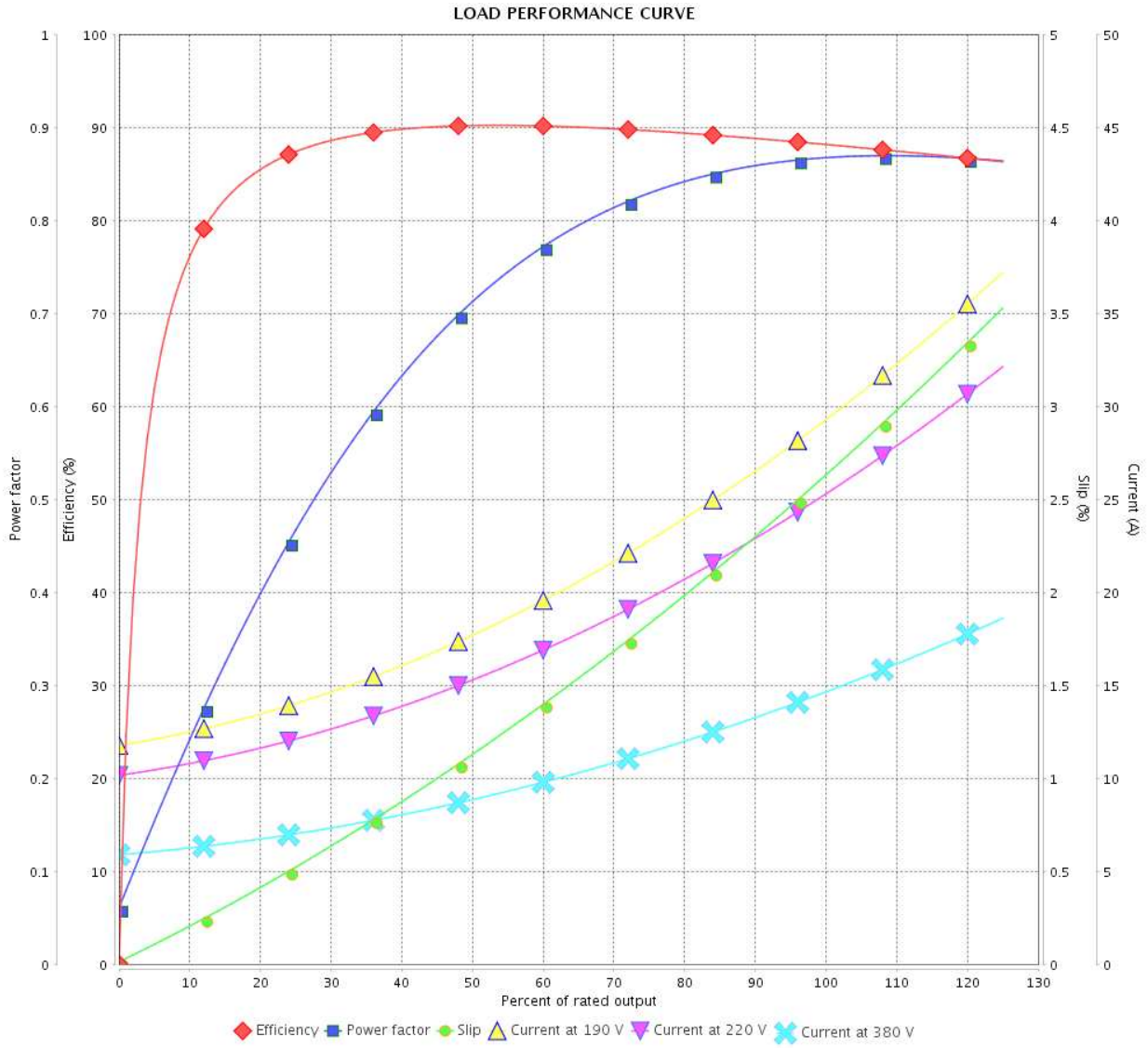
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13482796



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 29.8-25.7/14.9 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 4.97 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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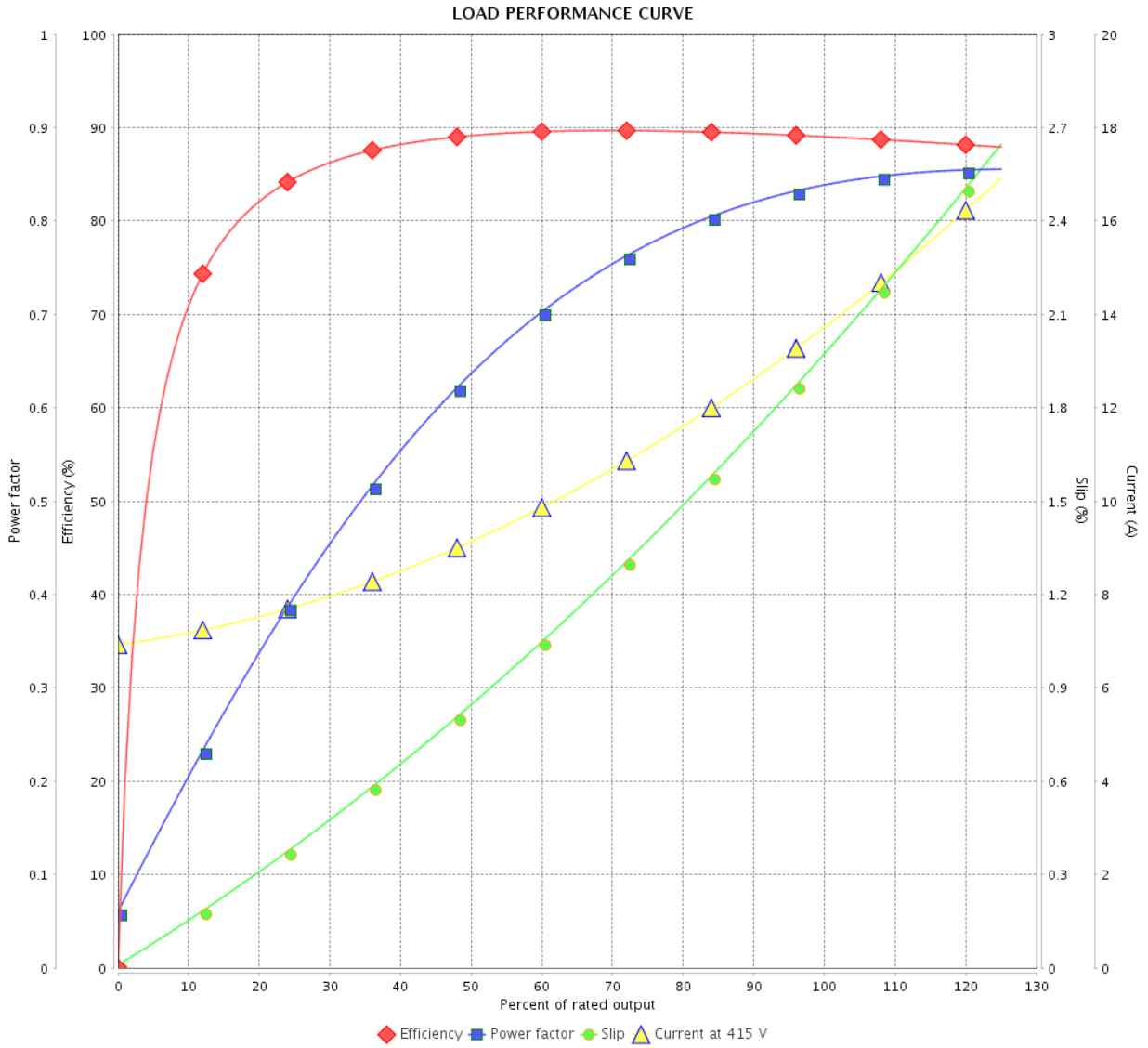
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Three Phase Induction Motor - Squirrel Cage

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Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13482796



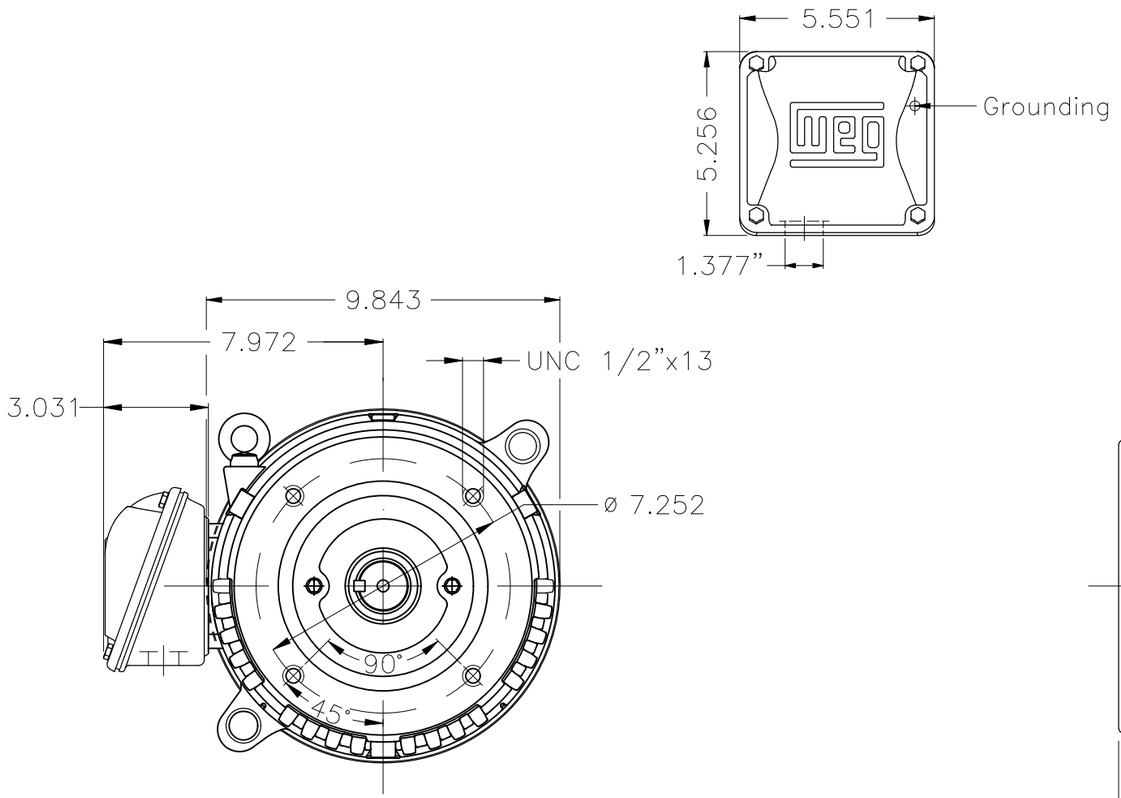
Performance	: 415 V 50 Hz 4P

Rated current	: 14.0 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 4.94 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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Color Munsell N 1 matte black

Painting plan 207N

Mounting W-6/V18R(D)

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5JM IP21 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

10 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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