DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180570

Frame	: 213/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 64.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0451 kgm²
Design	: B		

Output [HP]		10	7.5	7.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		24.4/12.2	22.4/11.2	20.8/11.0
L. R. Amperes [A]		171/85.4	170/85.1	172/91.3
LRC [A]		7.0x(Code H)	7.6x(Code J)	8.3x(Code K)
No load current [A]		11.1/5.54	10.9/5.46	11.3/5.97
Rated speed [RPM]		1760	1465	1470
Slip [%]		2.22	2.33	2.00
Rated torque [kgfm]		4.12	3.72	3.70
Locked rotor torque [%]		250	250	290
Breakdown torque [%]		300	320	360
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level²		60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%	90.2	90.4	89.3
	50%	91.0	90.1	89.4
	75%	91.0	90.7	90.5
	100%	91.7	90.1	90.3
Power Factor	25%	0.41	0.38	0.34
	50%	0.67	0.64	0.59
	75%	0.78	0.76	0.73
	100%	0.84	0.83	0.80

		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	

Foundation loads

Max. traction : 214 kgf

Max. compression : 278 kgf

Notes

USABLE @208V 27.0A SF 1.00 SFA 27.0A

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

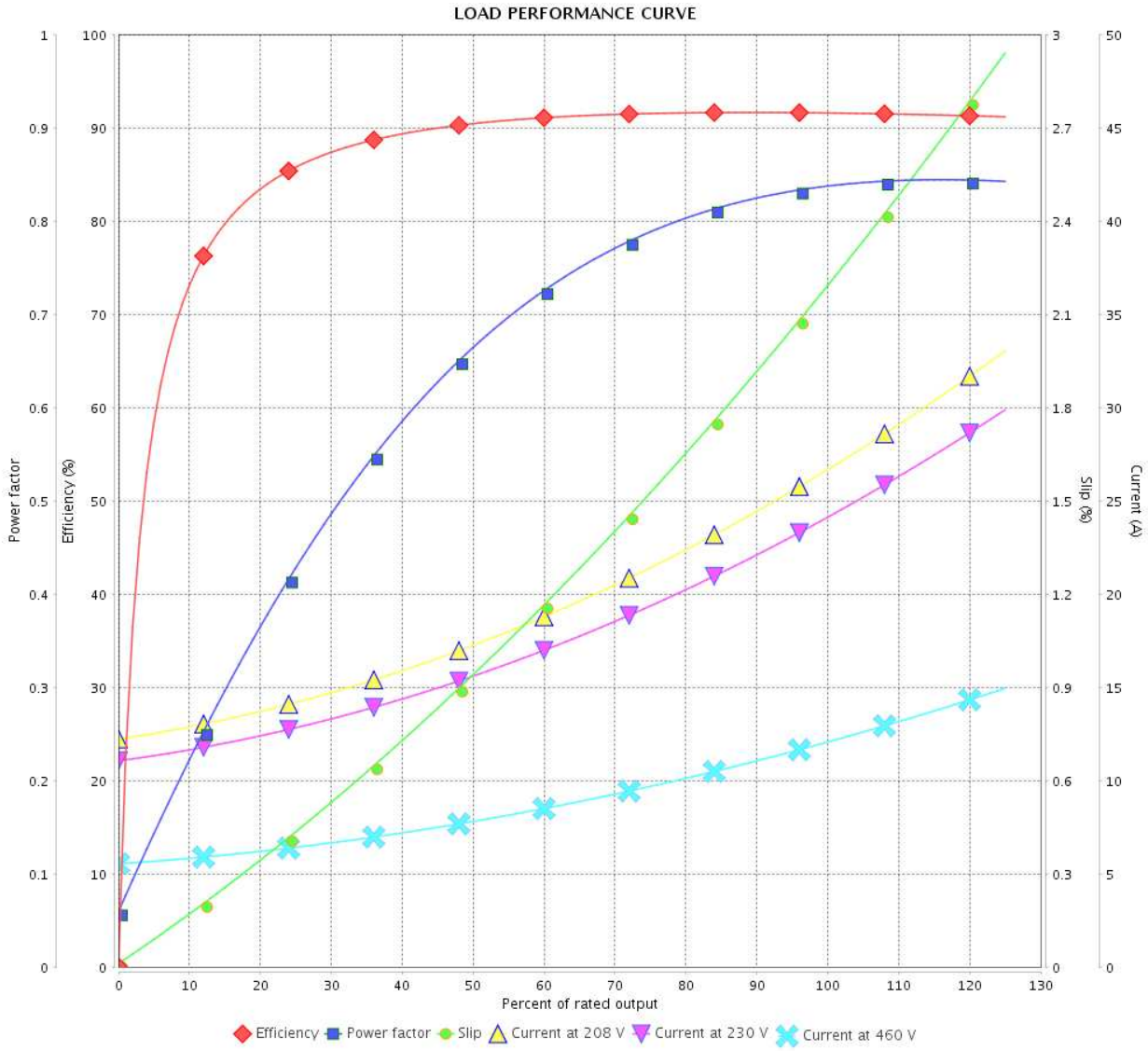
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Date	16/05/2022		1 / 4	

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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 :	13180570



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 24.4/12.2 A	Moment of inertia (J)	: 0.0451 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 4.12 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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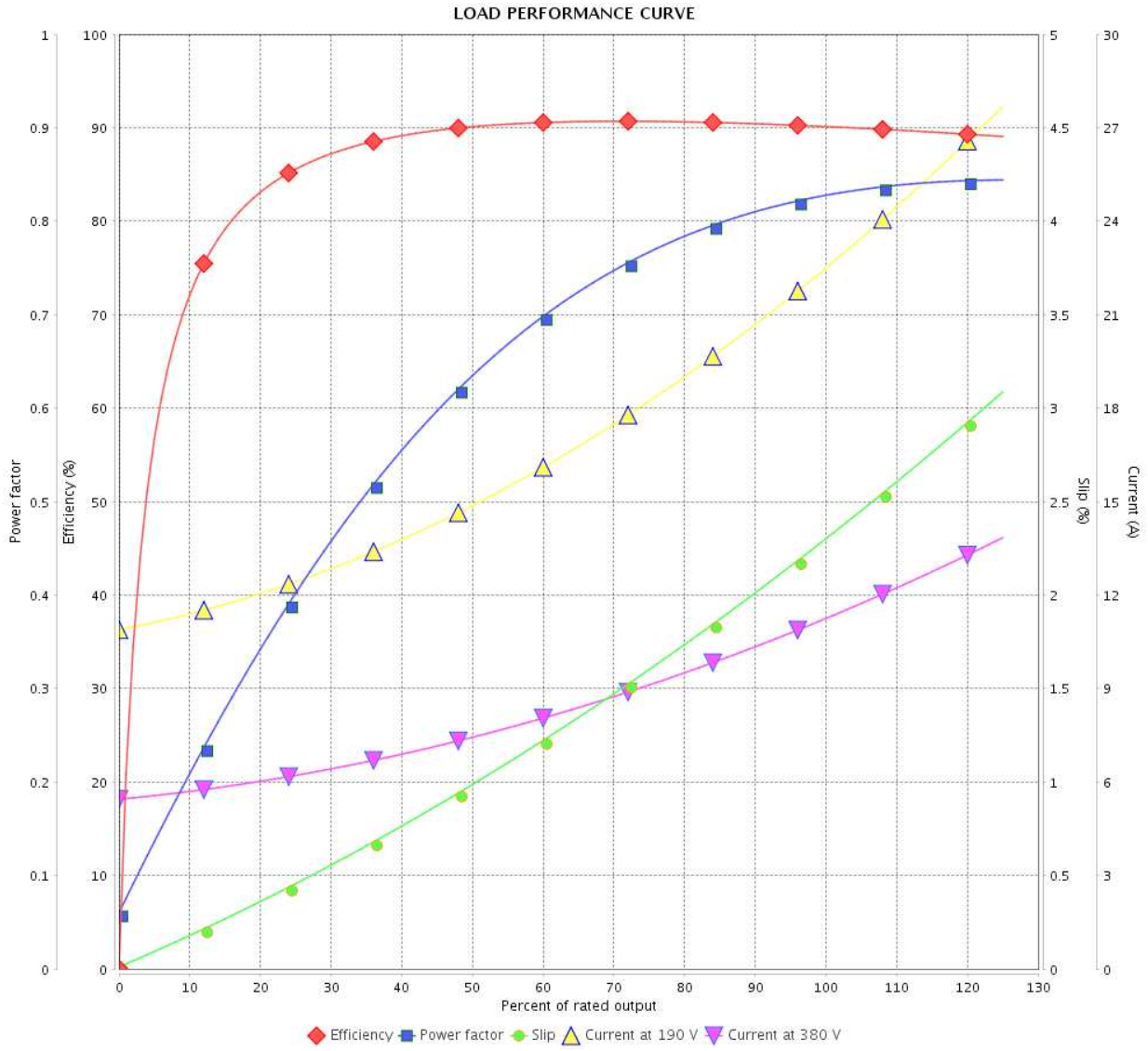
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Date	16/05/2022		2 / 4	

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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 :	13180570



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 22.4/11.2 A	Moment of inertia (J)	: 0.0451 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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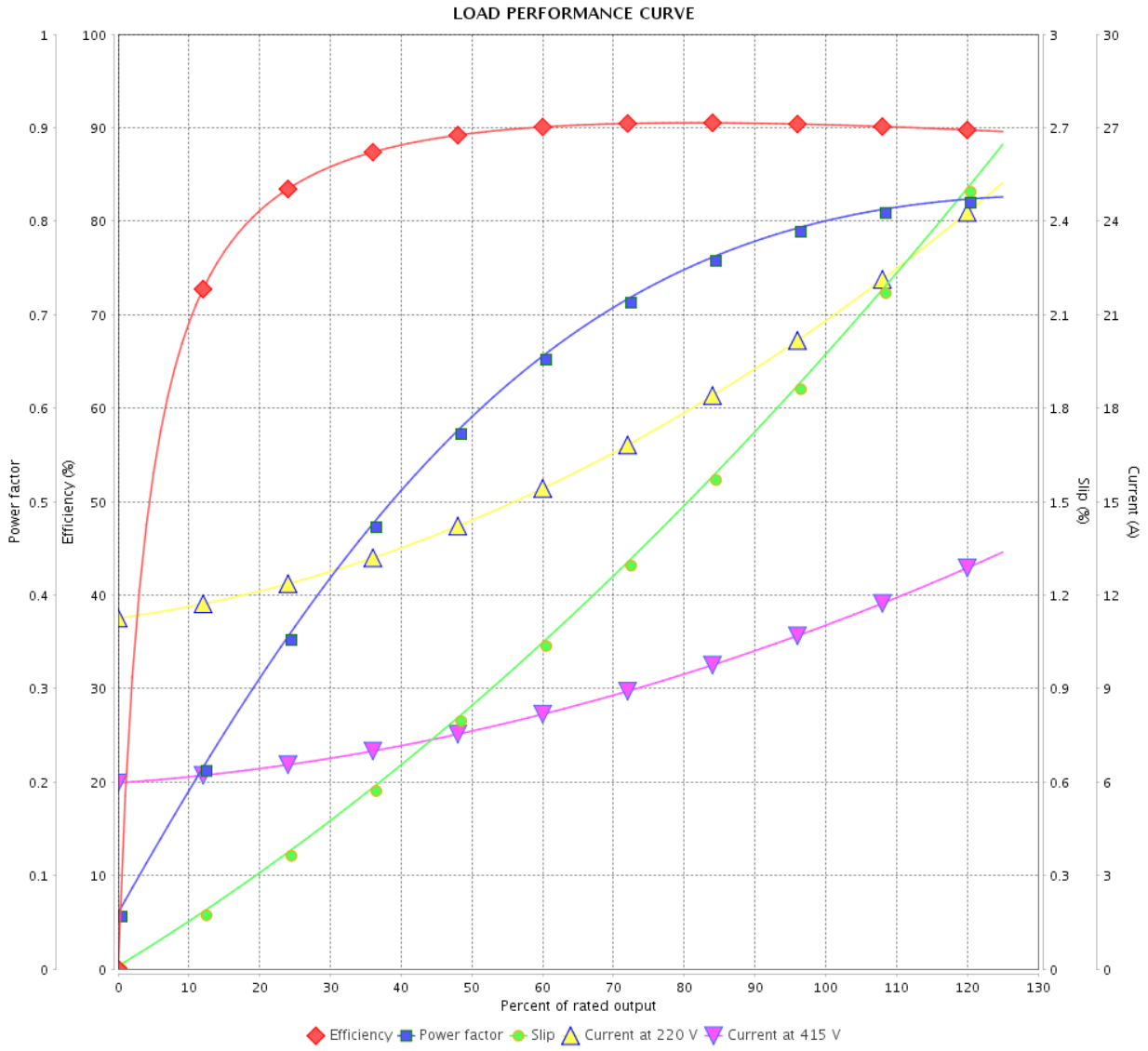
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Three Phase Induction Motor - Squirrel Cage

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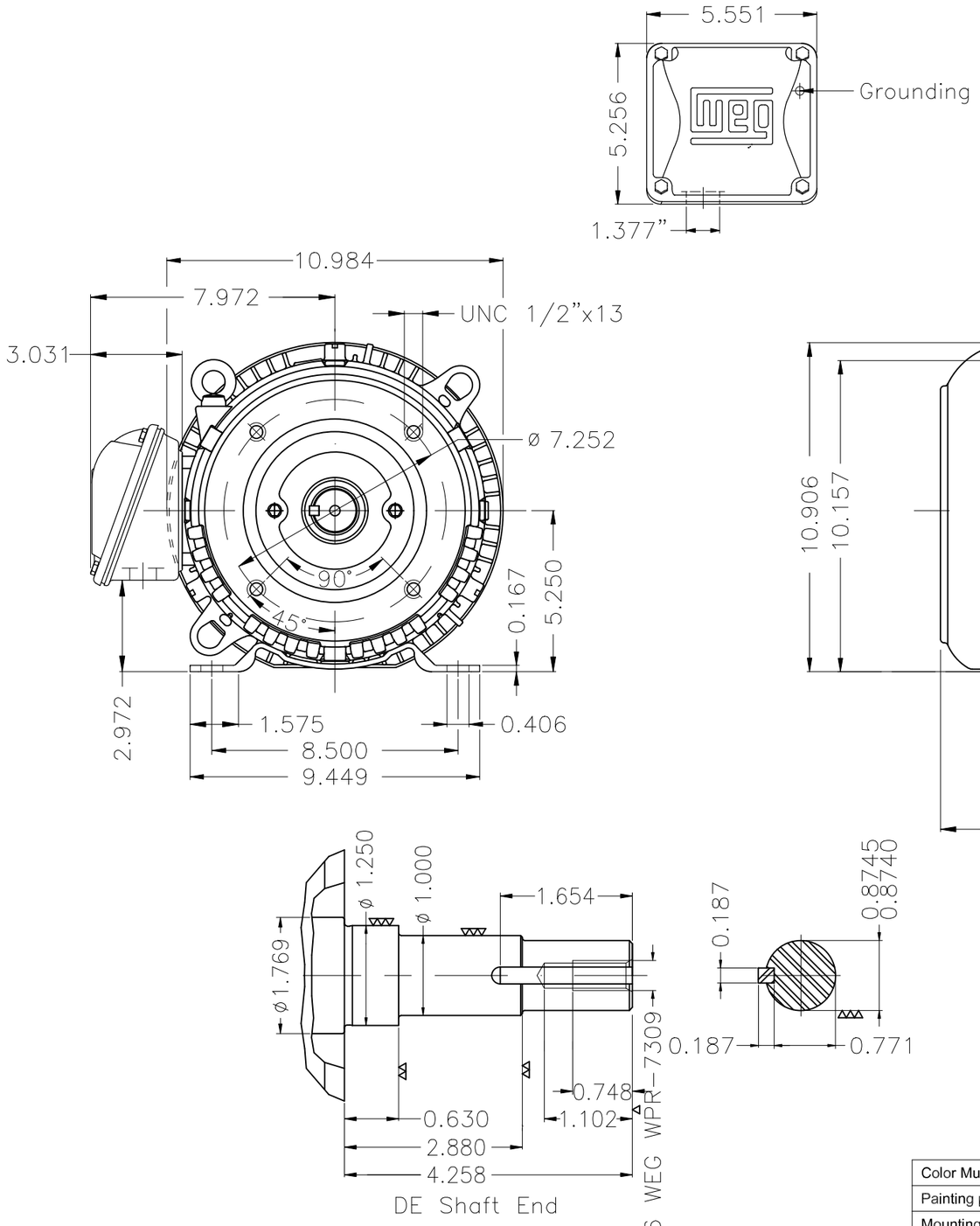


Performance	: 220/415 V 50 Hz 4P		
Rated current	: 20.8/11.0 A	Moment of inertia (J)	: 0.0451 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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Performed by				
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Date	16/05/2022		4 / 4	

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Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

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 IP55 TEFC	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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