DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676960

Frame	: 143/5JM	Cooling method	: IC01 - ODP
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	: 19.9 kg
Design	: B	Moment of inertia (J)	: 0.0060 kgm²

Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.14/2.07	4.84/2.42	4.41/2.34
L. R. Amperes [A]		36.0/18.0	31.0/15.5	30.9/16.4
LRC [A]		8.7x(Code L)	6.4x(Code H)	7.0x(Code J)
No load current [A]		2.40/1.20	2.36/1.18	2.41/1.28
Rated speed [RPM]		1760	1440	1445
Slip [%]		2.22	4.00	3.67
Rated torque [kgfm]		0.619	0.756	0.753
Locked rotor torque [%]		280	190	220
Breakdown torque [%]		330	250	280
Service factor			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		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	83.6	85.3	84.0
	50%	84.0	84.3	83.6
	75%	86.5	84.7	84.8
	100%	86.5	83.2	83.9
Power Factor	25%	0.32	0.38	0.35
	50%	0.56	0.64	0.60
	75%	0.69	0.77	0.73
	100%	0.77	0.83	0.81

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 50 kgf
Max. compression : 70 kgf

Notes
USABLE @208V 4.58A SF 1.00 SFA 4.58A

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

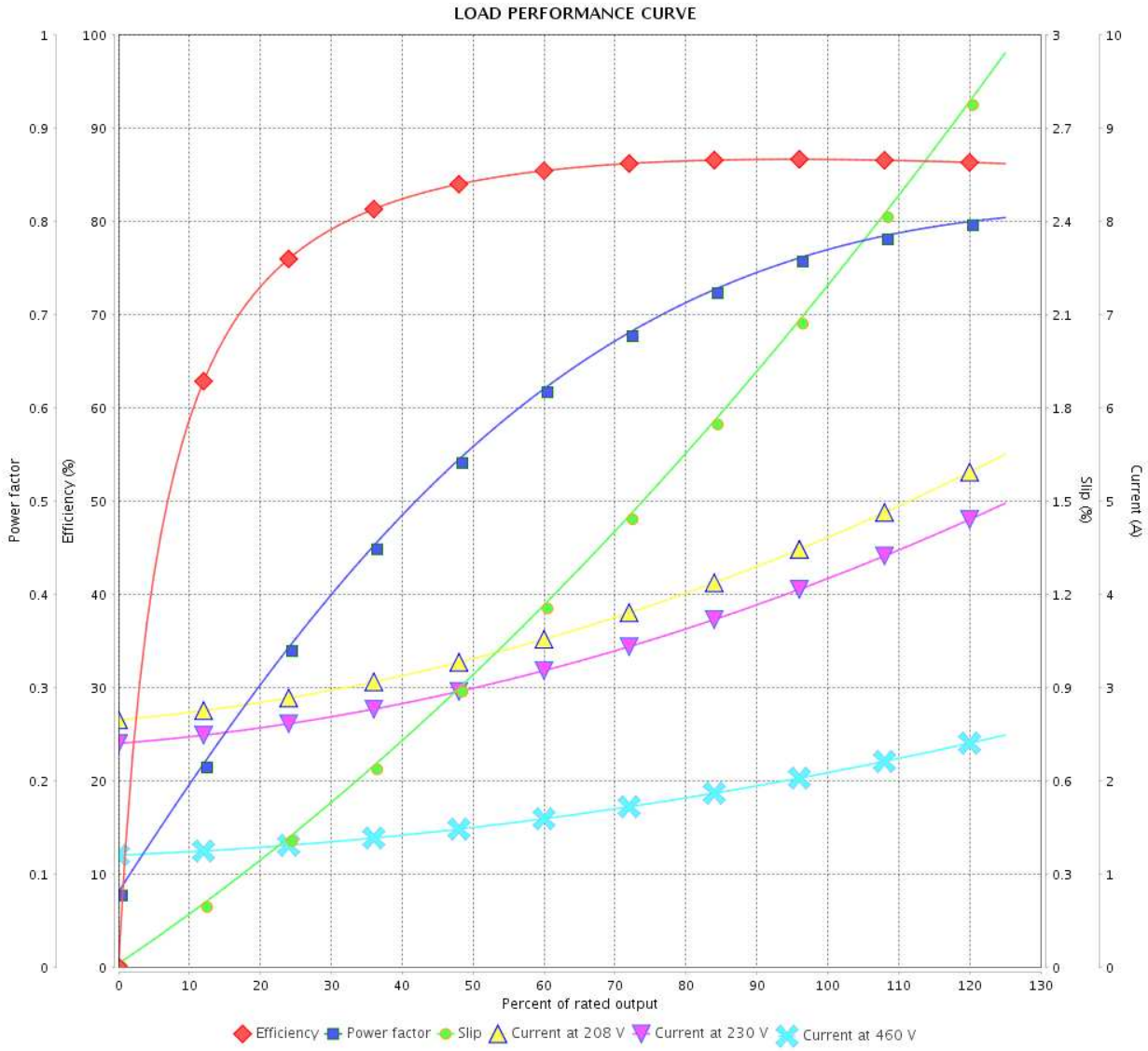
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Date	16/05/2022		1 / 4	

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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 :	12676960



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 4.14/2.07 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

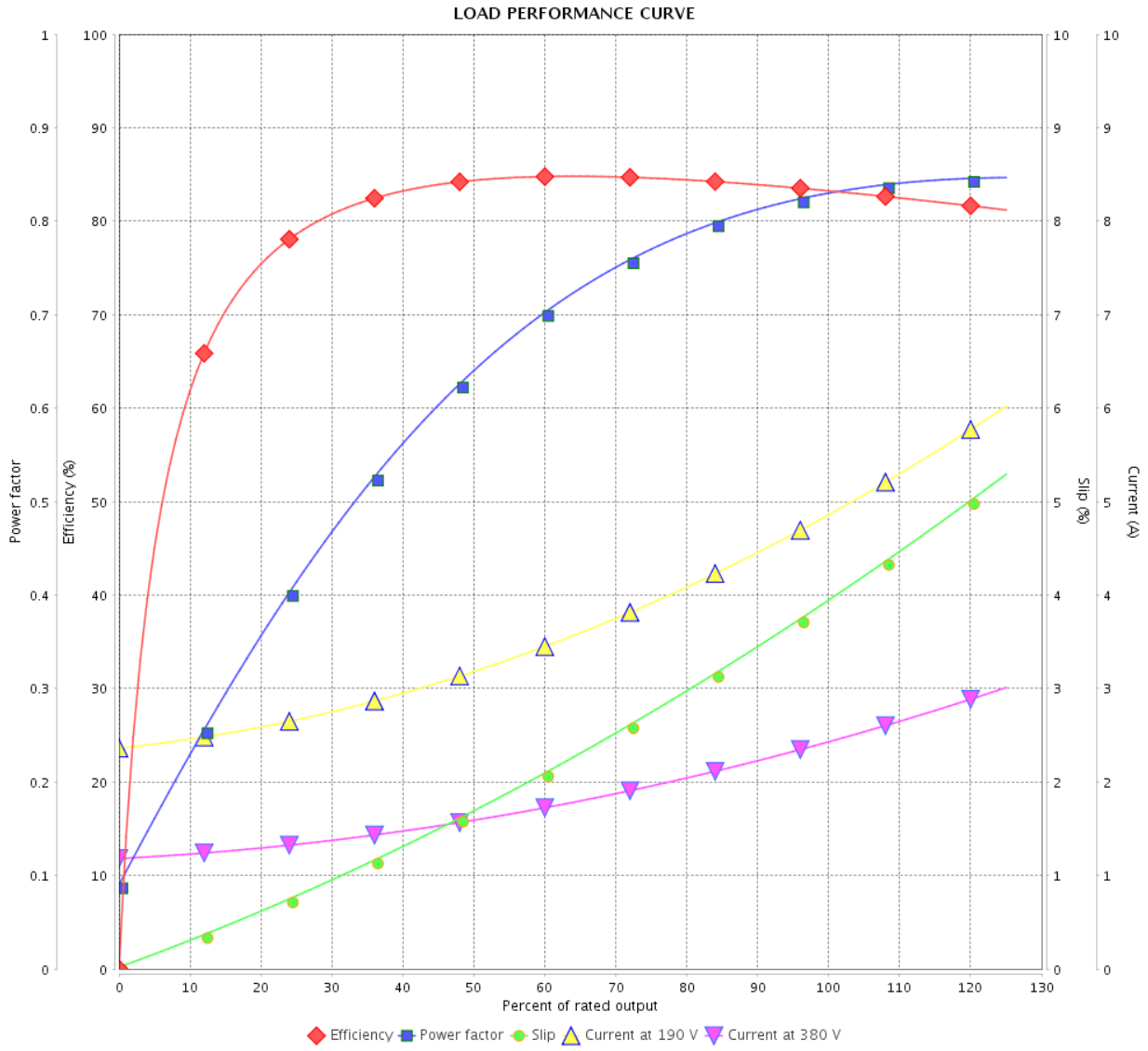
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Date	16/05/2022		2 / 4	

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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 :	12676960



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 4.84/2.42 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.756 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

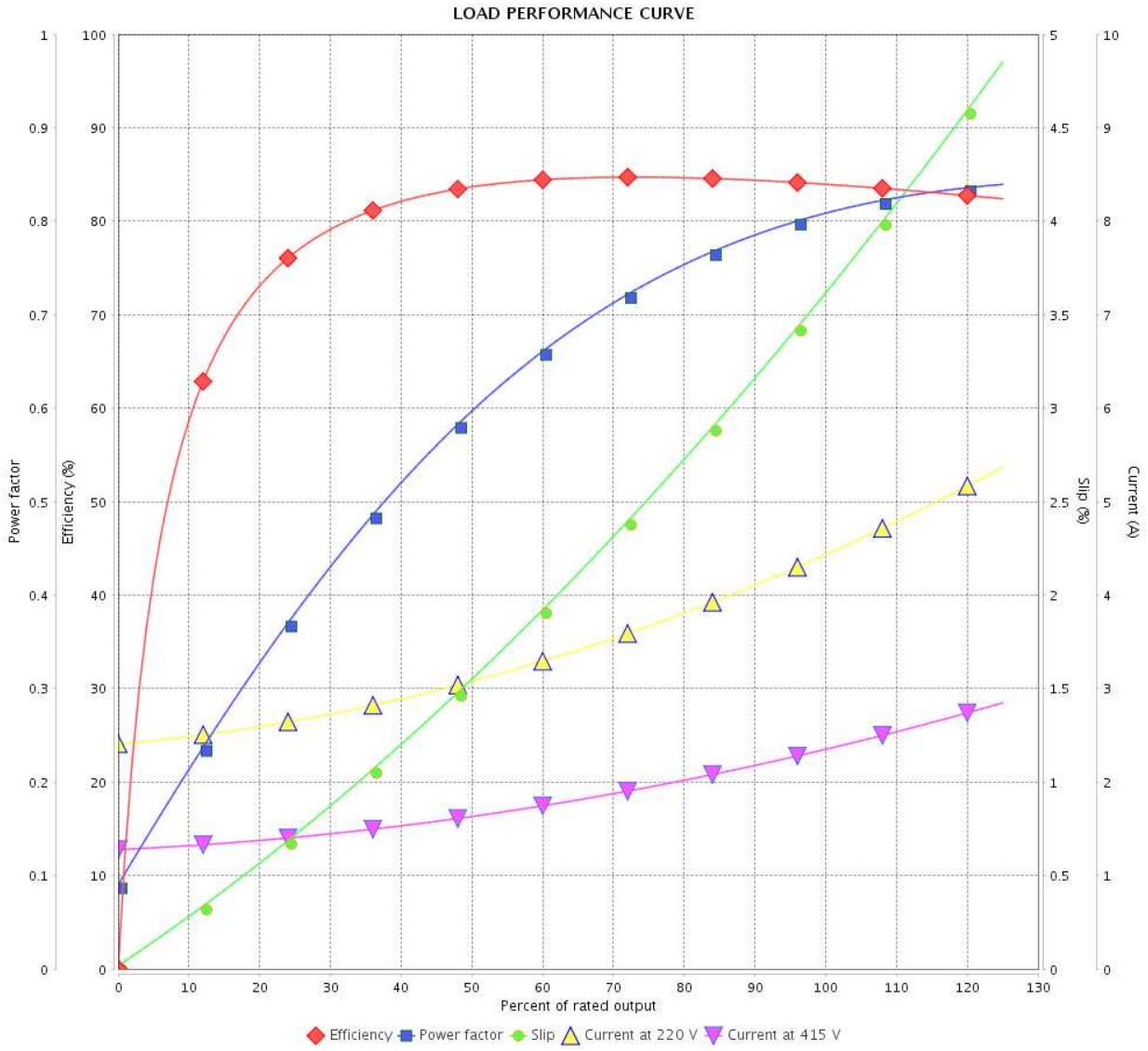
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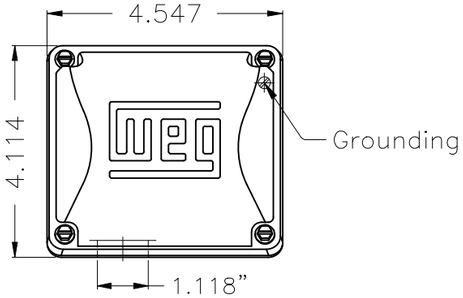


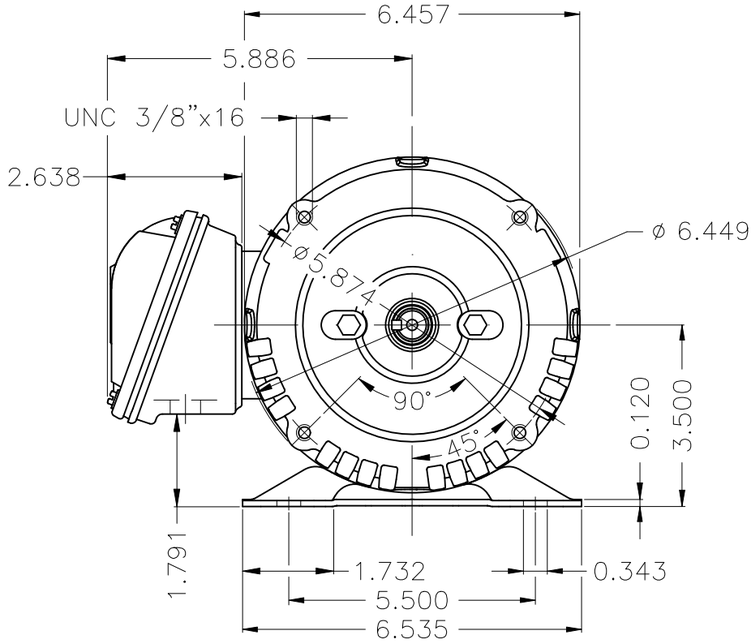
Performance	: 220/415 V 50 Hz 4P		
Rated current	: 4.41/2.34 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B

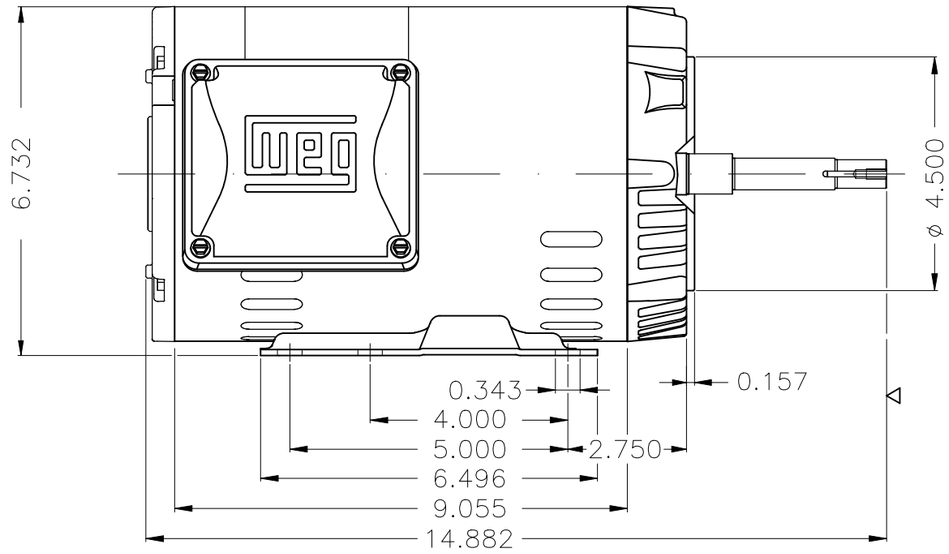
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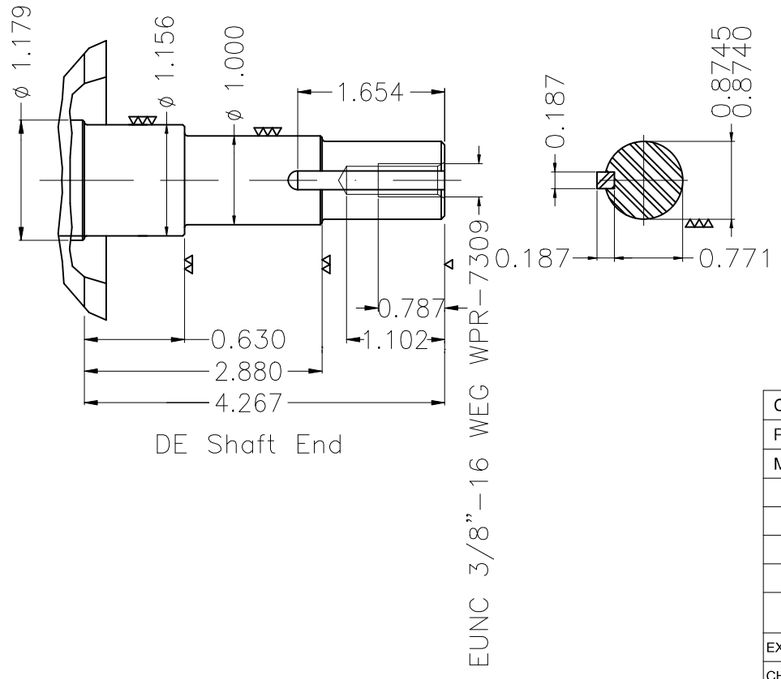
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Date	16/05/2022		4 / 4	

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

Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF. FRAME 143/5JM IP21 ODP	PREVIEW
CHECKED			WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

1.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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