DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676963

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	: 18.8 kg
Design	: B	Moment of inertia (J)	: 0.0049 kgm²

Output [HP]		2	2	2
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.38/2.69	6.52/3.26	5.90/3.13
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)
No load current [A]		2.75/1.38	2.70/1.35	2.82/1.49
Rated speed [RPM]		1740	1410	1420
Slip [%]		3.33	6.00	5.33
Rated torque [kgfm]		0.834	1.03	1.02
Locked rotor torque [%]		260	200	220
Breakdown torque [%]		320	229	260
Service factor			1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		30s (cold) 17s (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%	85.2	88.2	86.4
	50%	85.5	85.9	85.2
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.4
Power Factor	25%	0.36	0.42	0.38
	50%	0.61	0.69	0.64
	75%	0.74	0.80	0.77
	100%	0.81	0.85	0.83

		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 : 66 kgf
Max. compression : 85 kgf

Notes
USABLE @208V 5.95A SF 1.00 SFA 5.95A

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

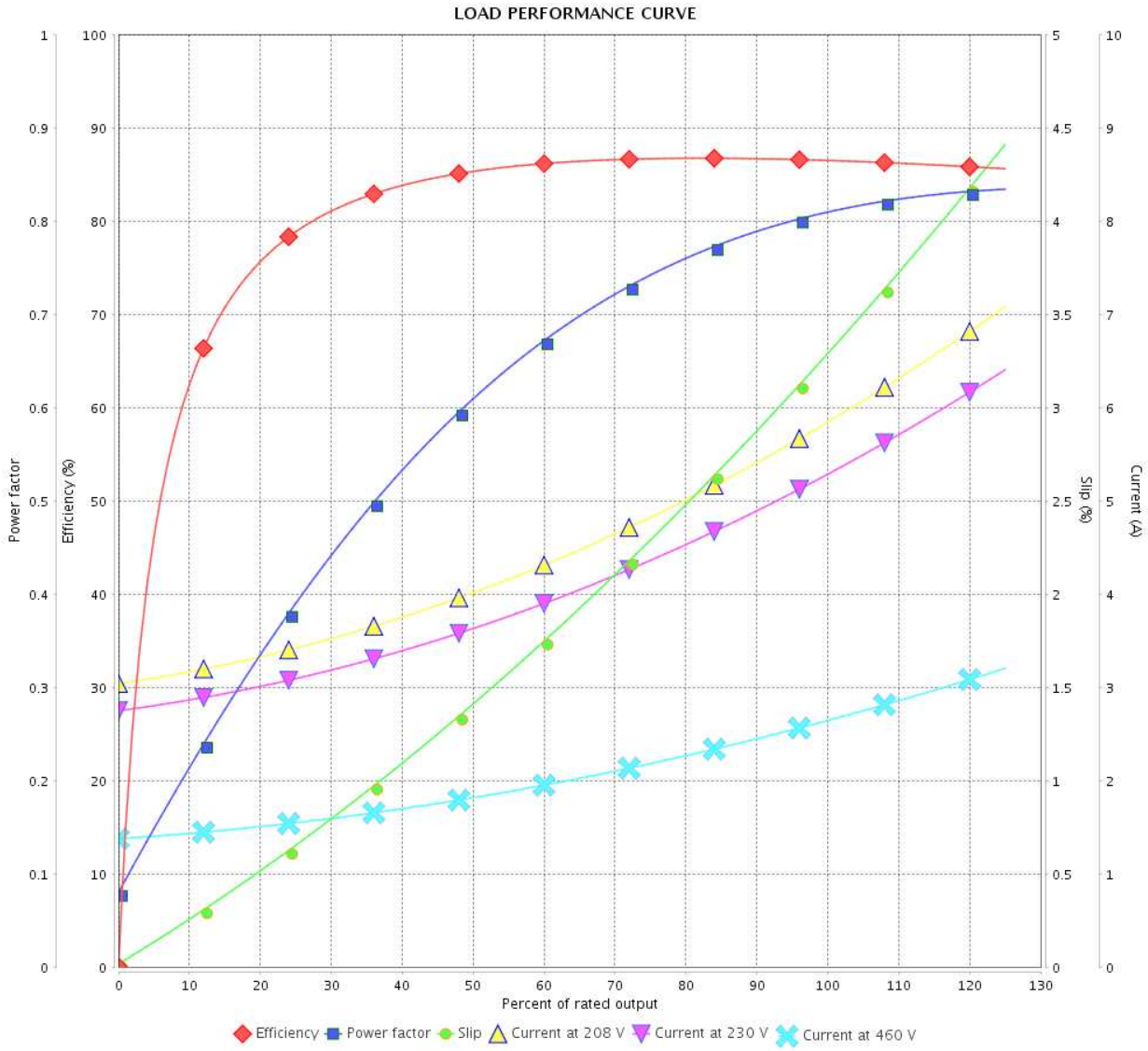
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676963



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 5.38/2.69 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.834 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	:
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

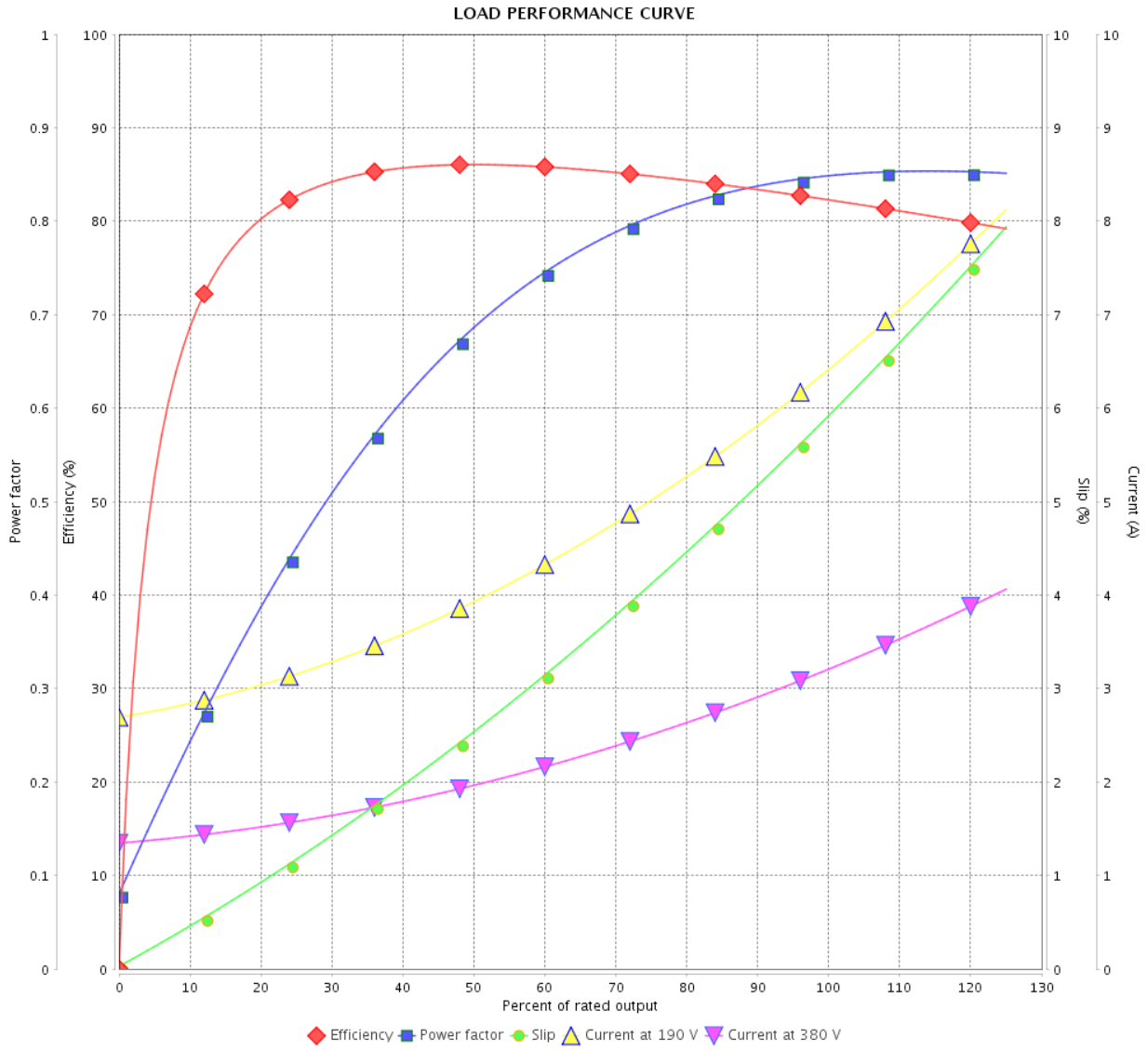
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676963



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 6.52/3.26 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 1.03 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1410 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

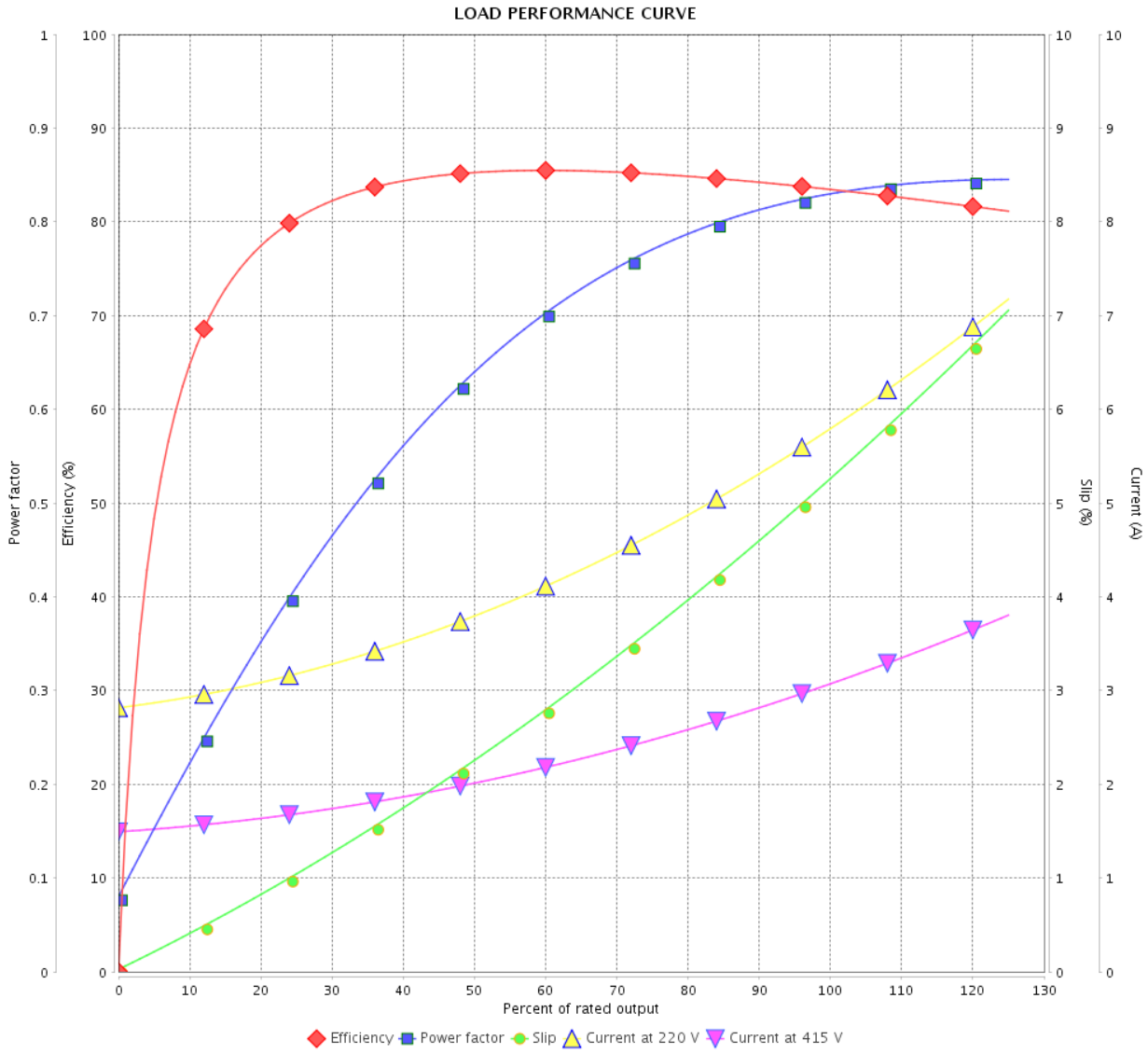
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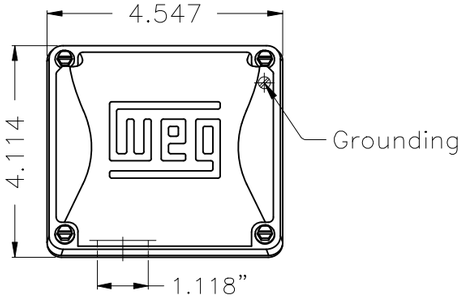


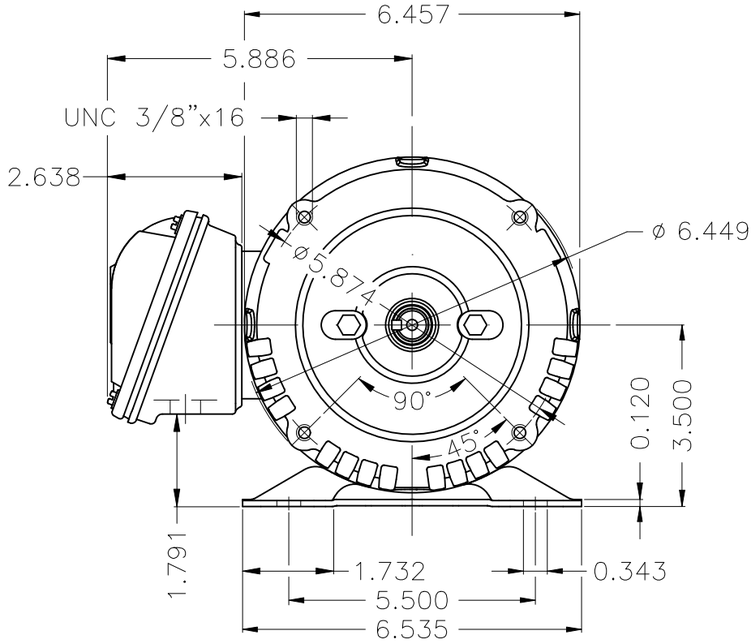
Performance	: 220/415 V 50 Hz 4P		
Rated current	: 5.90/3.13 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.02 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1420 rpm	Design	: B

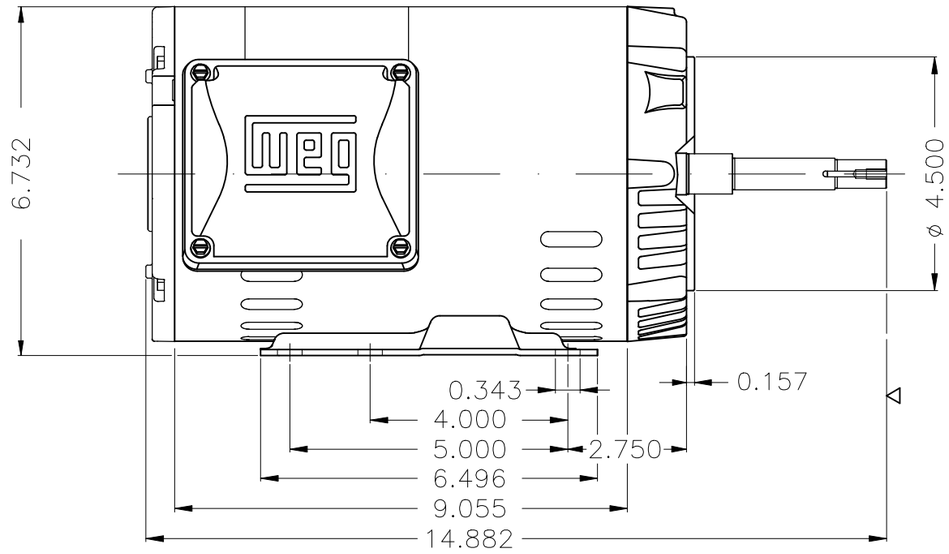
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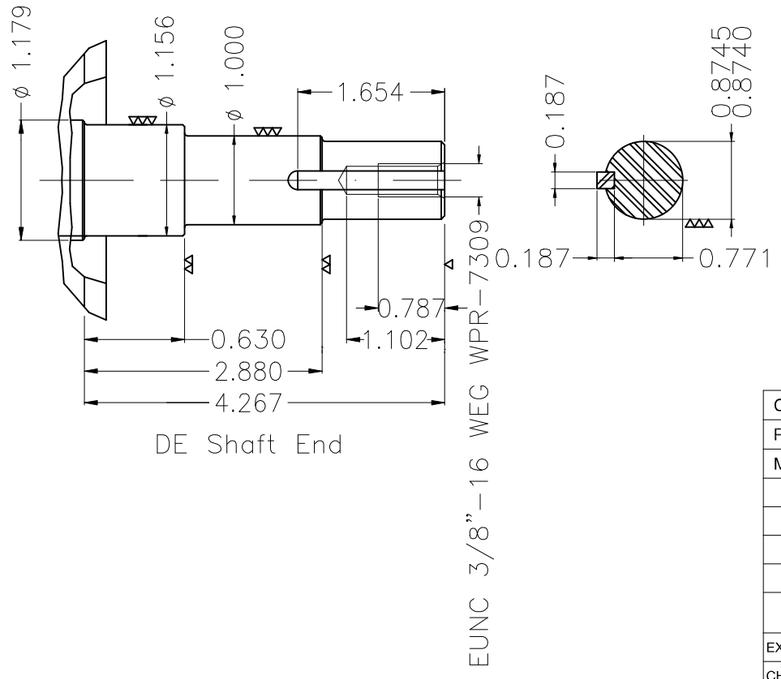
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Color Munsell N 1 matte black

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 143/5JM IP21 ODP	WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

2 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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