DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12498951

Frame	: 145JM	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.68 A	Protection degree	: IP55
L. R. Amperes	: 14.1 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code L)	Mounting	: W-6
No load current	: 0.960 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level[2]	: 51.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 0.620 kgfm	Approx. weight[3]	: 22.0 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0060 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	82.5	85.5	86.5
Power Factor	0.54	0.67	0.76

Foundation loads

Max. traction	: 50 kgf
Max. compression	: 73 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
14.7	12.1	12.0	8.7	6.1	4.9	3.6

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes

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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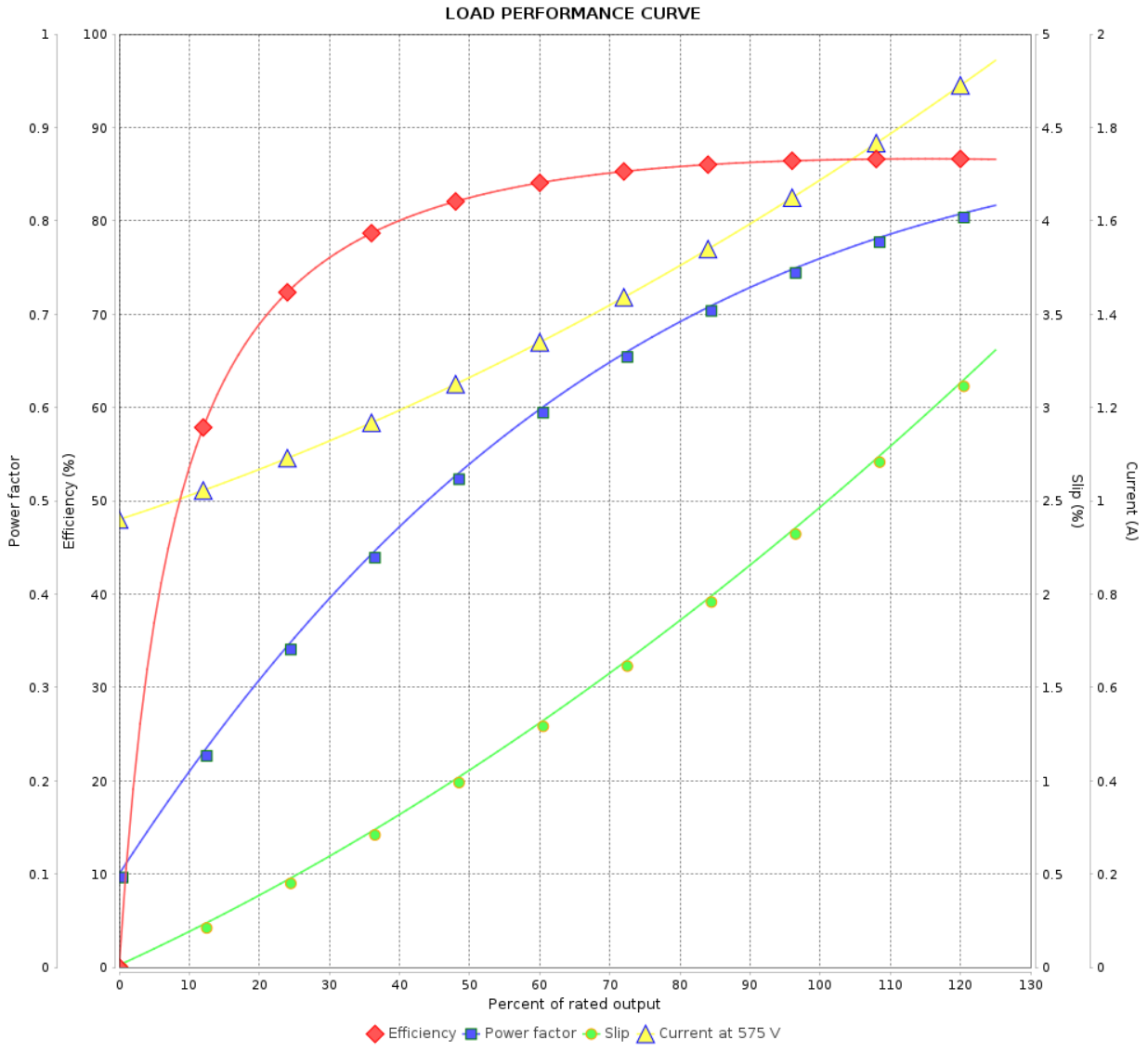
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12498951



Performance	: 575 V 60 Hz 4P		
Rated current	: 1.68 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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Date	23/07/2026		2 / 2	

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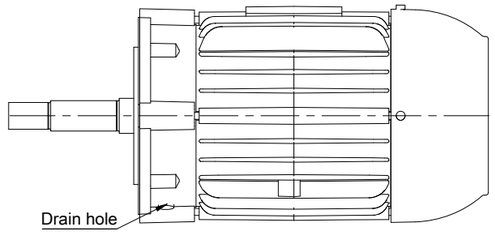
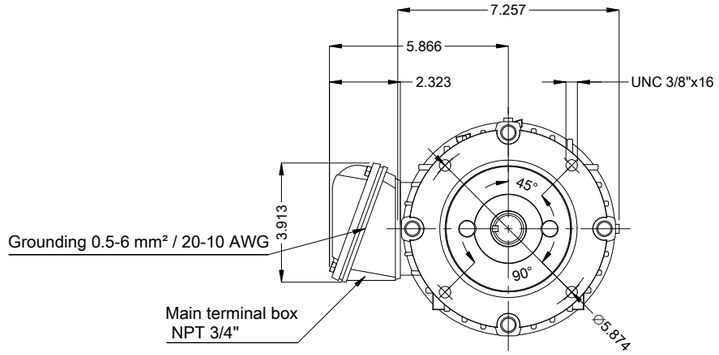
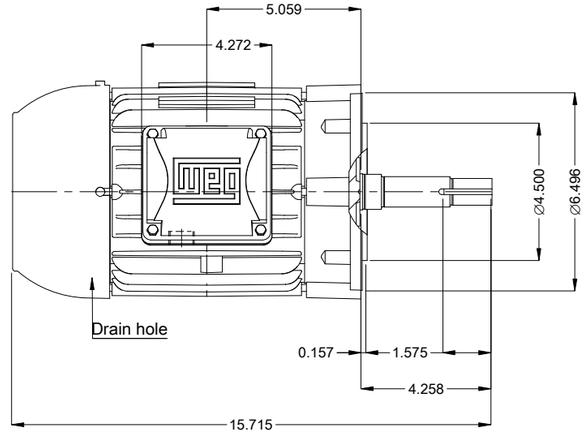
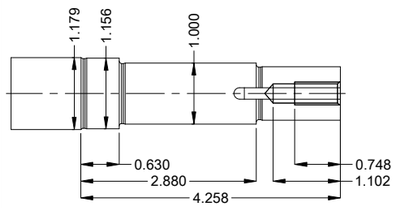
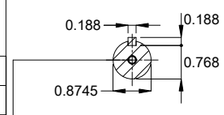








DE Shaft End



EUNC 3/8"-16 WEG WPR-7309

Color RAL 5009

Painting plan 207A

Mounting V18

1.5 HP 04 Poles 60 Hz

A

Scale 1 : 5

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF.

FRAME 145JM IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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