DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Jet Pump - J type Three-Phase Product code : 14317336

Frame	: W56J	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 11.5 kg
Design	: A	Moment of inertia (J)	: 0.0014 kgm²

Output [HP]		1.5	1.5	1.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.22/2.11	4.86/2.43	4.51/2.39
L. R. Amperes [A]		37.1/18.6	38.4/19.2	38.3/20.3
LRC [A]		8.8x(Code L)	7.9x(Code K)	8.5x(Code L)
No load current [A]		2.40/1.20	2.40/1.20	2.45/1.30
Rated speed [RPM]		3450	2815	2835
Slip [%]		4.17	6.17	5.50
Rated torque [kgfm]		0.316	0.387	0.384
Locked rotor torque [%]		400	390	440
Breakdown torque [%]		430	310	350
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)
Noise level[2]		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%			
	50%	78.5	80.0	79.0
	75%	82.5	81.0	81.0
	100%	84.0	82.0	82.0
Power Factor	25%			
	50%	0.59	0.65	0.59
	75%	0.72	0.77	0.73
	100%	0.78	0.84	0.81

		Drive end	Non drive end
Bearing type	:	6203 2RS	6202 2RS
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 37 kgf

Max. compression : 49 kgf

Notes

USABLE @208V 4.67A SF 1.00 SFA 4.67A

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

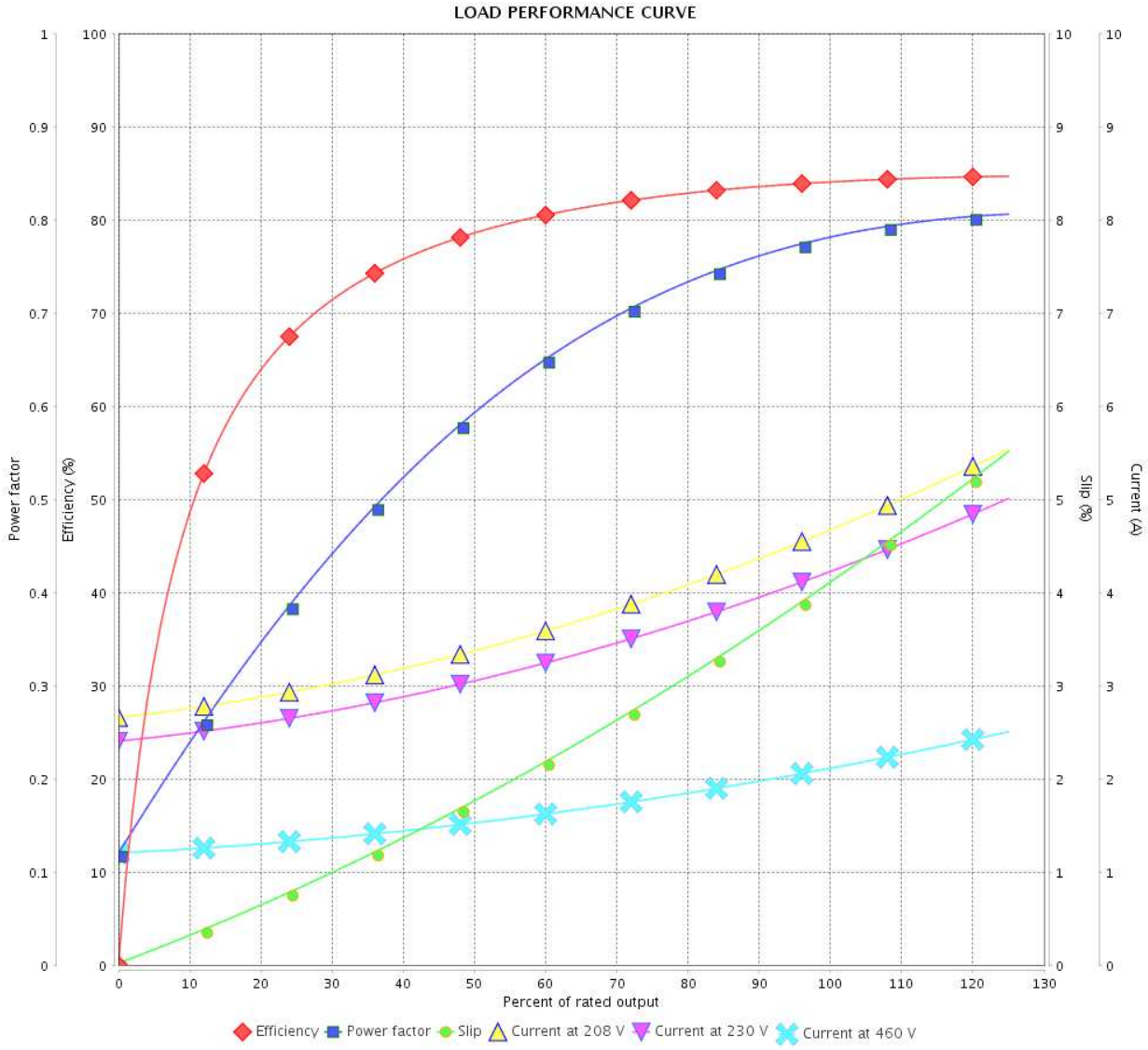
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Jet Pump - J type Three-Phase	Product code :	14317336



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 4.22/2.11 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.316 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	:
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 3450 rpm	Design	: A

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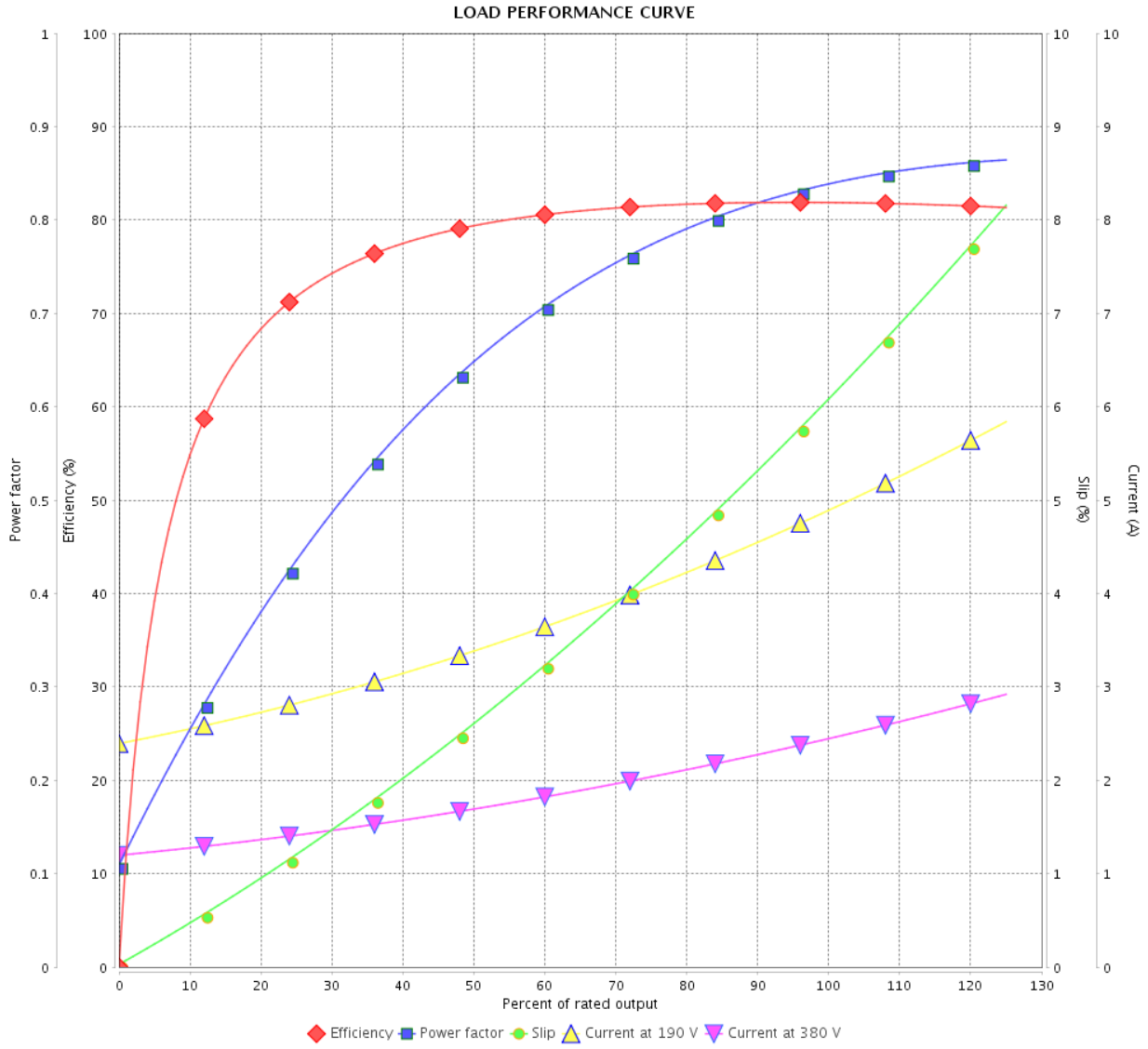
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Jet Pump - J type Three-Phase	Product code :	14317336



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 4.86/2.43 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.387 kgfm	Insulation class	: F
Locked rotor torque	: 390 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2815 rpm	Design	: A

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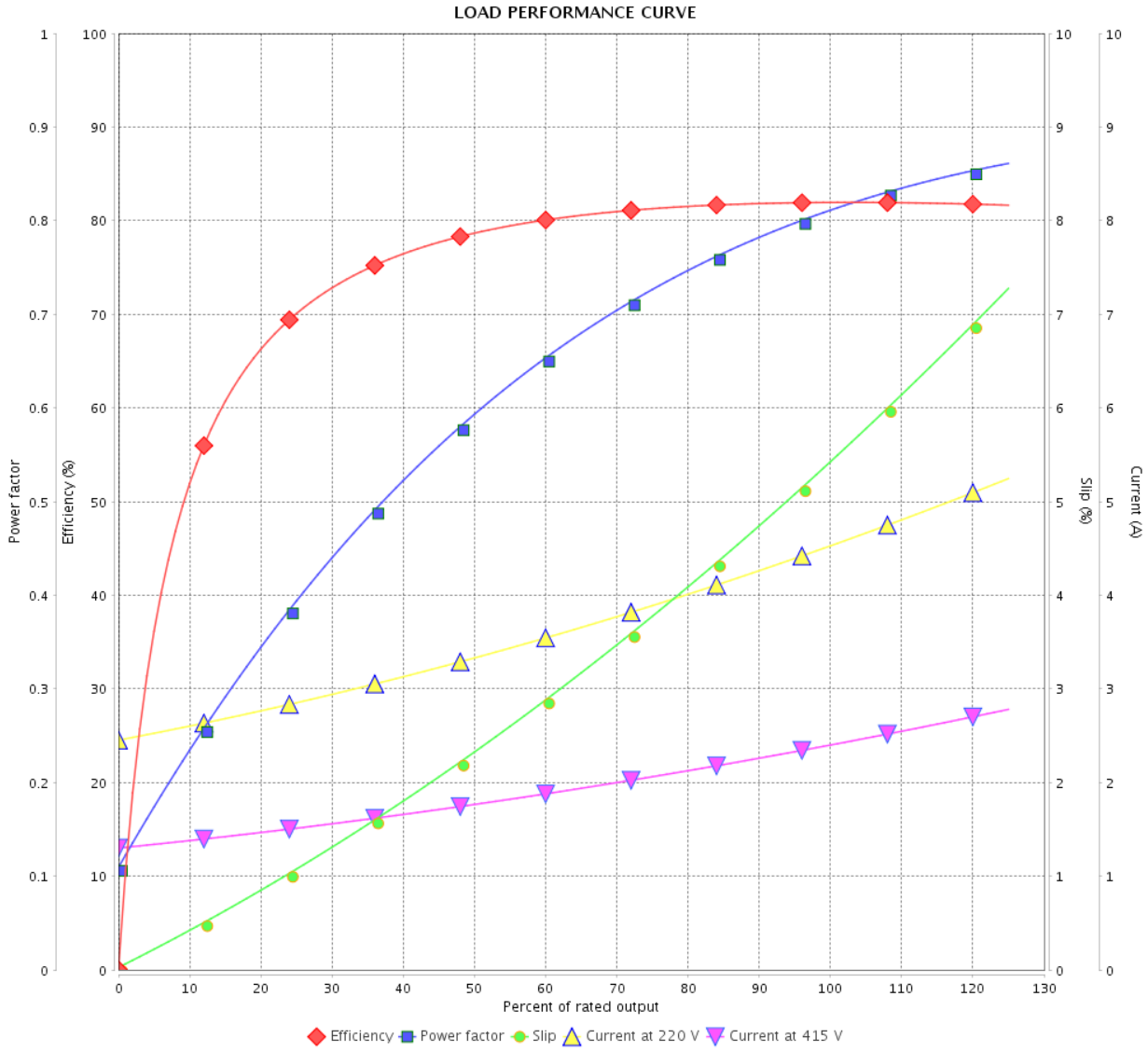
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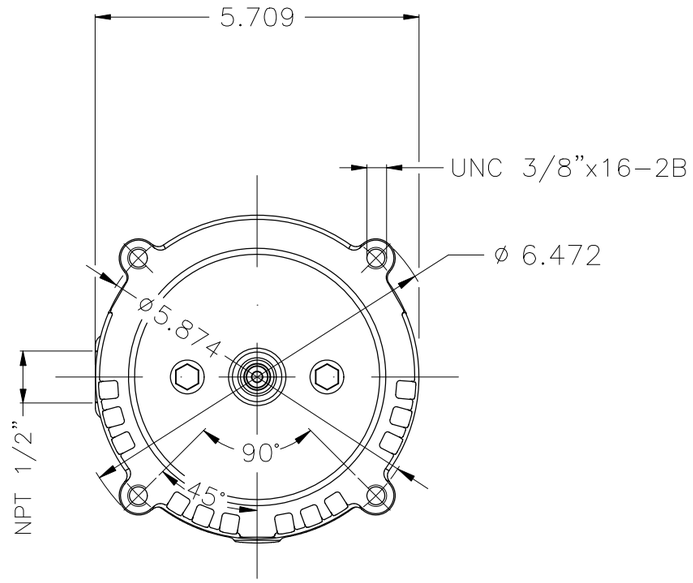


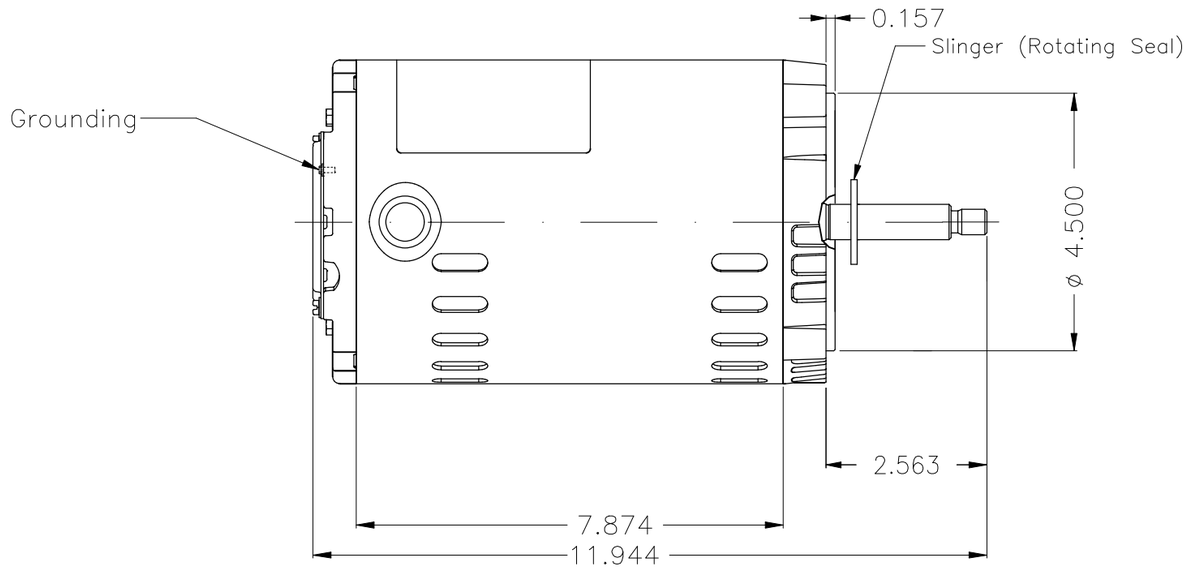
Performance	: 220/415 V 50 Hz 2P		
Rated current	: 4.51/2.39 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.384 kgfm	Insulation class	: F
Locked rotor torque	: 440 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2835 rpm	Design	: A

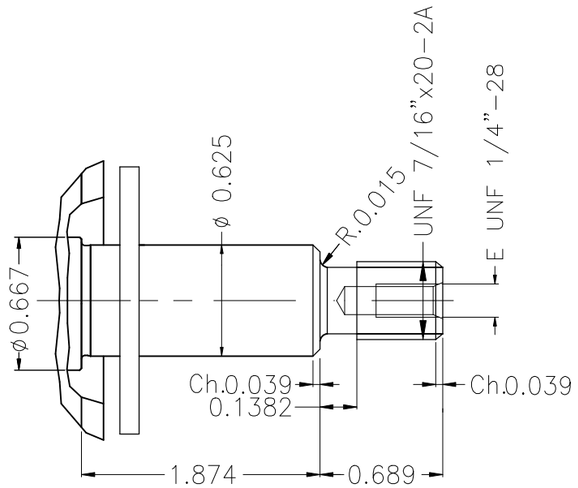
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Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREM EFF	PREVIEW	
CHECKED		FRAME W56J IP21 ODP	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

1.5 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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