DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	13905945

Frame	: 56J	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]	: 15.0 kg
Design	: A	Moment of inertia (J)	: 0.0040 kgm²

Output [HP]		3	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.78/3.89	6.30/3.15	6.02/3.19
L. R. Amperes [A]		54.5/27.2	48.5/24.3	51.1/27.1
LRC [A]		7.0x(Code J)	7.7x(Code J)	8.5x(Code L)
No load current [A]		3.20/1.60	3.20/1.60	4.15/2.20
Rated speed [RPM]		3450	2875	2900
Slip [%]		4.17	4.17	3.33
Rated torque [kgfm]		0.631	0.505	0.501
Locked rotor torque [%]		220	260	320
Breakdown torque [%]		250	300	360
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%			
	50%	80.0	81.0	76.8
	75%	81.5	82.8	80.7
	100%	81.5	82.2	81.7
Power Factor	25%			
	50%	0.70	0.69	0.56
	75%	0.82	0.82	0.71
	100%	0.87	0.88	0.80

		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 : 50 kgf

Max. compression : 65 kgf

Notes

USABLE @208V 8.60A SF 1.00 SFA 8.60A

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

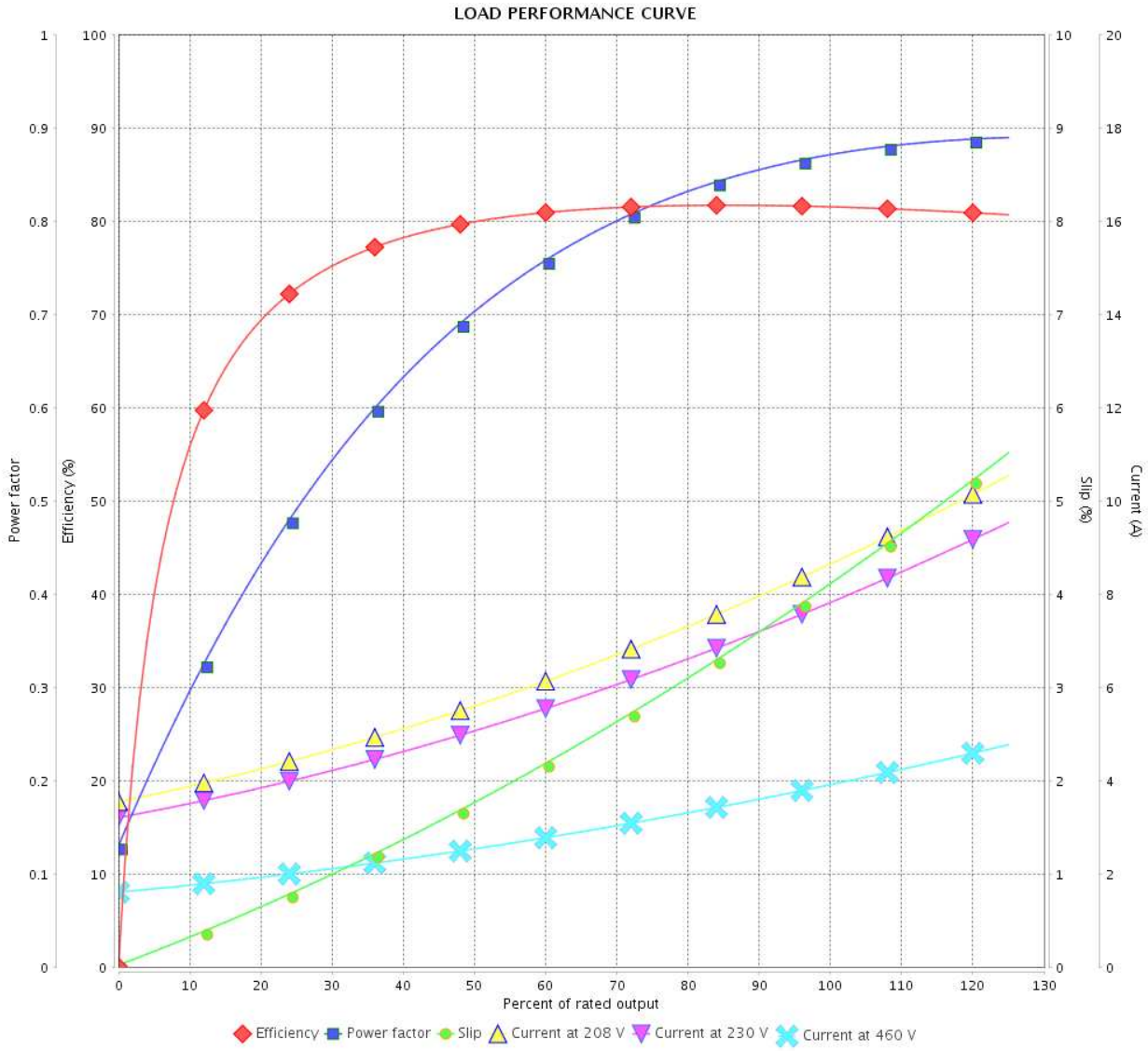
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	13905945



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.78/3.89 A	Moment of inertia (J)	: 0.0040 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.631 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	:
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3450 rpm	Design	: A

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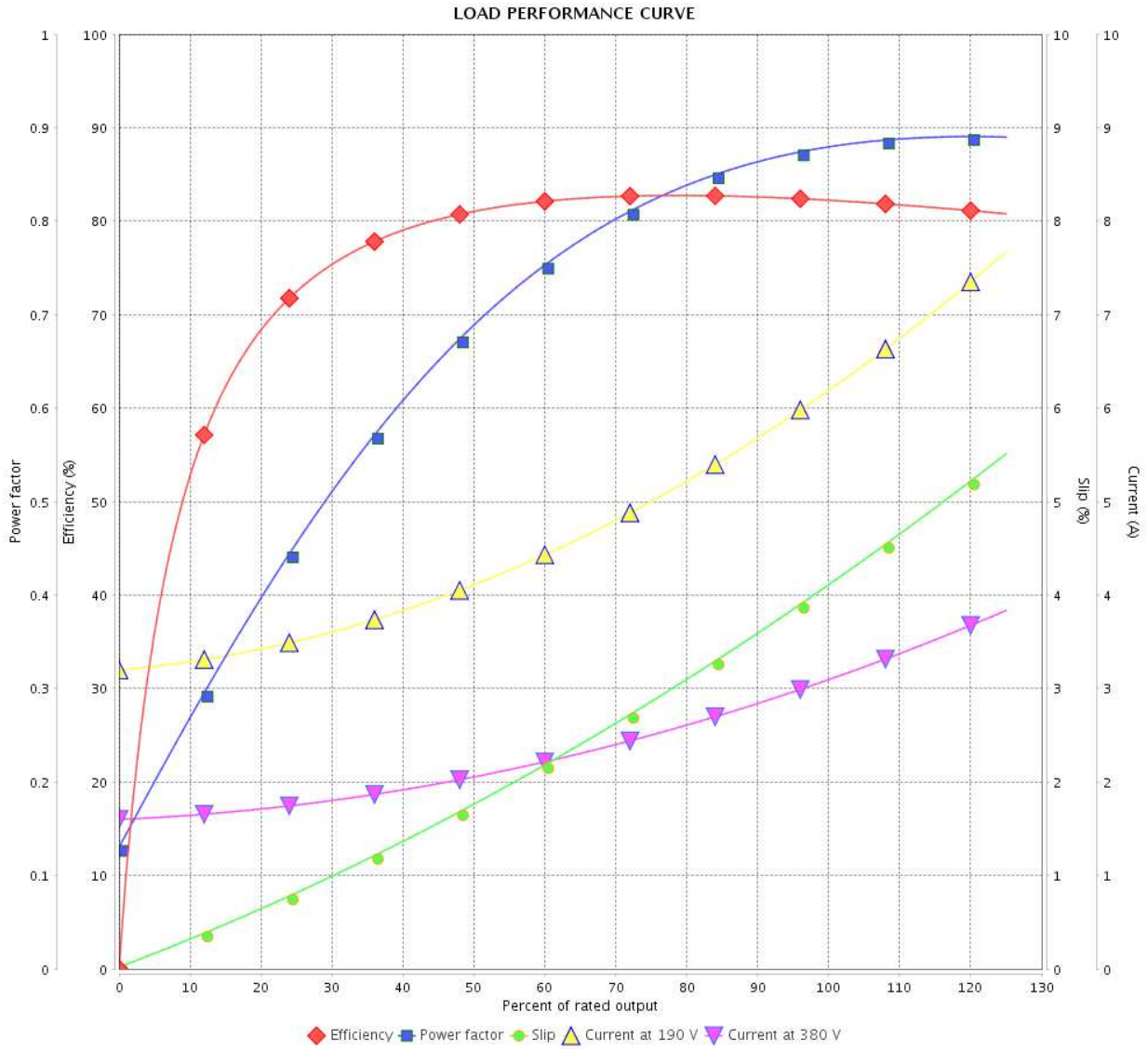
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Jet Pump - J type Standard Efficiency Three-Phase	Product code :	13905945



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 6.30/3.15 A	Moment of inertia (J)	: 0.0040 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.505 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2875 rpm	Design	: A

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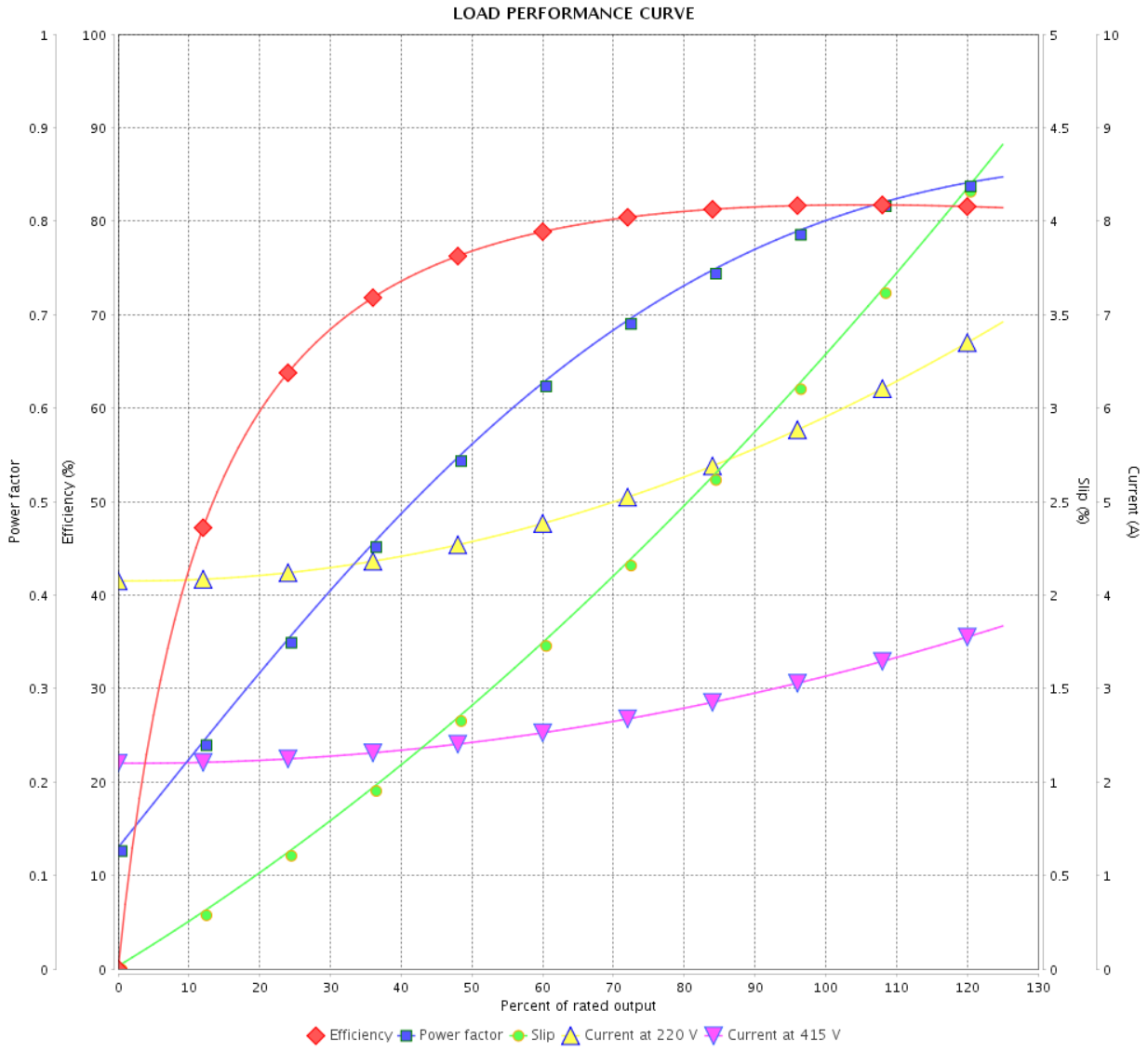
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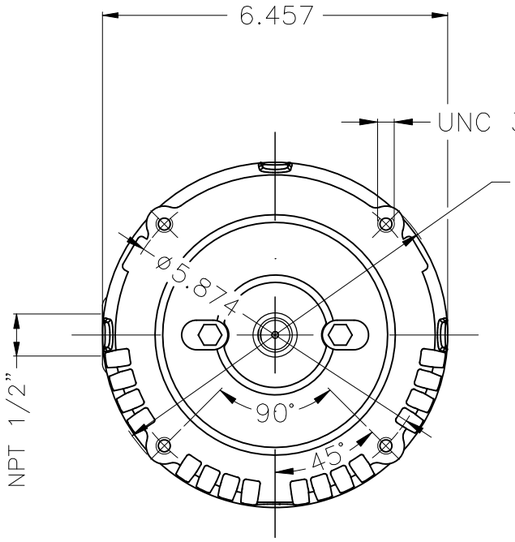


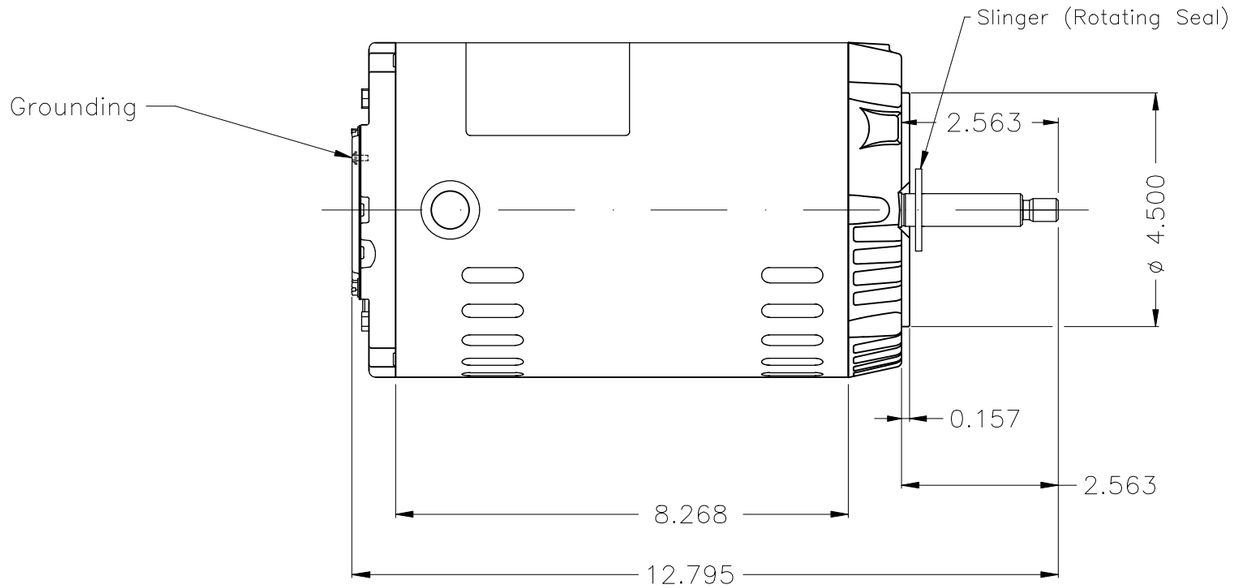
Performance	: 220/415 V 50 Hz 2P		
Rated current	: 6.02/3.19 A	Moment of inertia (J)	: 0.0040 kgm²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A

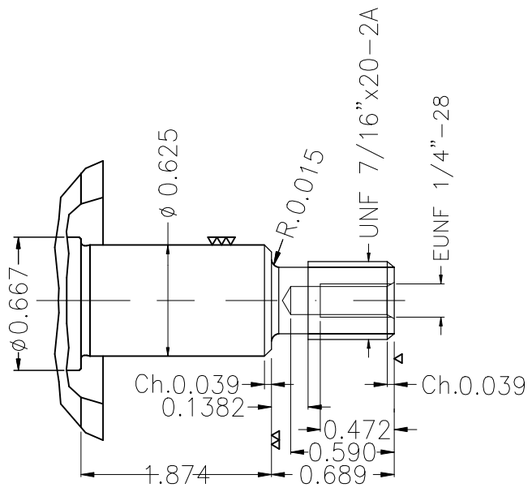
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Color Munsell N 1 matte black							
Painting plan 207N							
Mounting F-1/B14R(D)							
			HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED	PREVIEW	
CHECKED		FRAME 56J IP21 ODP	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

3 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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