DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Three-Phase	Product code :	13997241

Frame	: 56C	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 12.4 kg
Design	: A	Moment of inertia (J)	: 0.0036 kgm²

Output [HP]		1	1	1
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.14/1.57	3.54/1.77	3.34/1.77
L. R. Amperes [A]		23.9/11.9	20.9/10.4	22.0/11.7
LRC [A]		7.6x(Code L)	5.9x(Code H)	6.6x(Code K)
No load current [A]		2.20/1.10	2.09/1.05	2.42/1.28
Rated speed [RPM]		1760	1440	1450
Slip [%]		2.22	4.00	3.33
Rated torque [kgfm]		0.412	0.504	0.501
Locked rotor torque [%]		280	180	229
Breakdown torque [%]		320	250	300
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)
Noise level[2]		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	78.5	79.6	76.1
	75%	82.5	81.4	79.9
	100%	83.5	80.6	80.6
Power Factor	25%			
	50%	0.49	0.58	0.49
	75%	0.63	0.72	0.64
	100%	0.72	0.80	0.73

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 42 kgf

Max. compression : 54 kgf

Notes

USABLE @208V 3.47A SF 1.00 SFA 3.47A

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

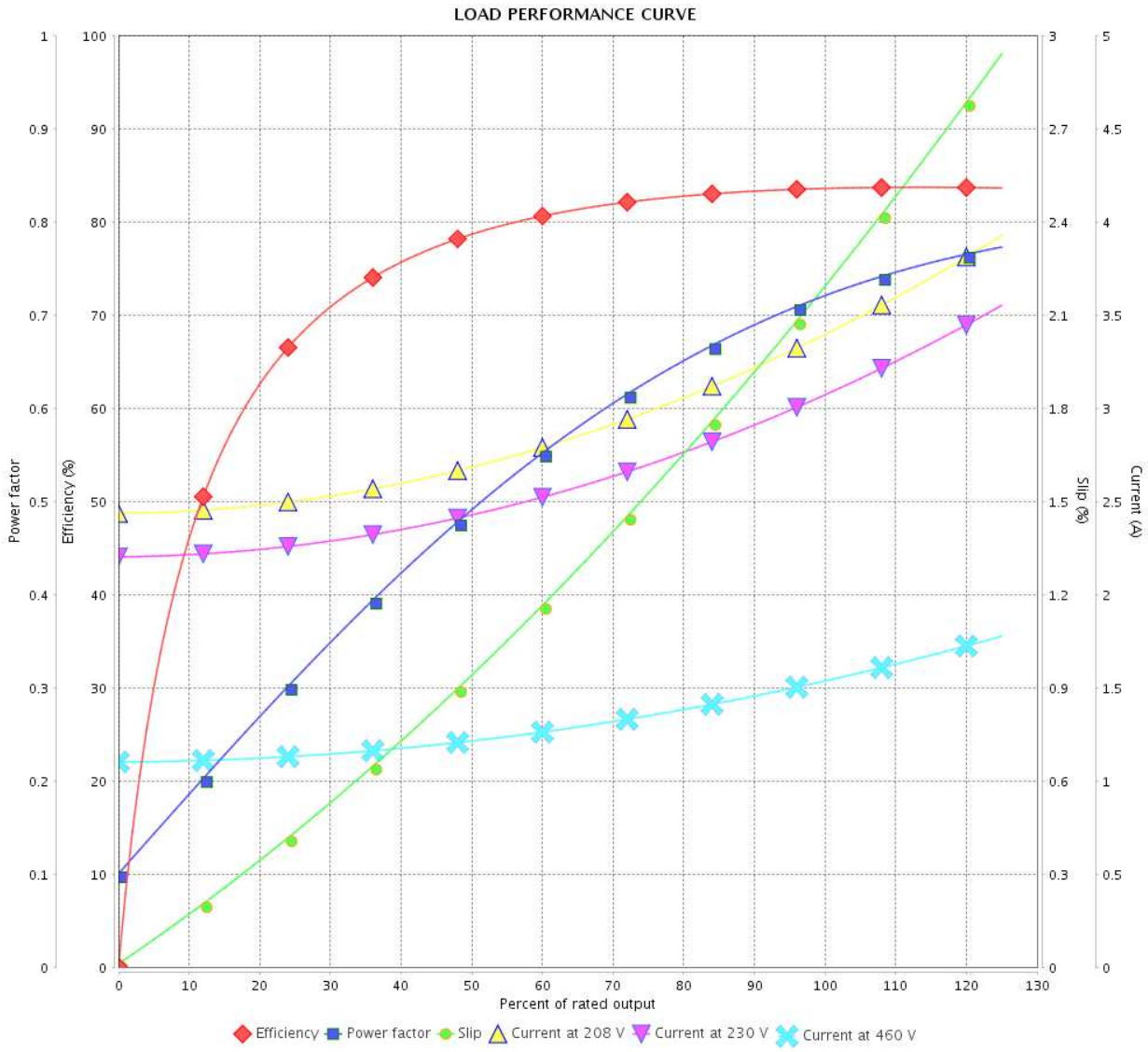
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13997241



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 3.14/1.57 A	Moment of inertia (J)	: 0.0036 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: A

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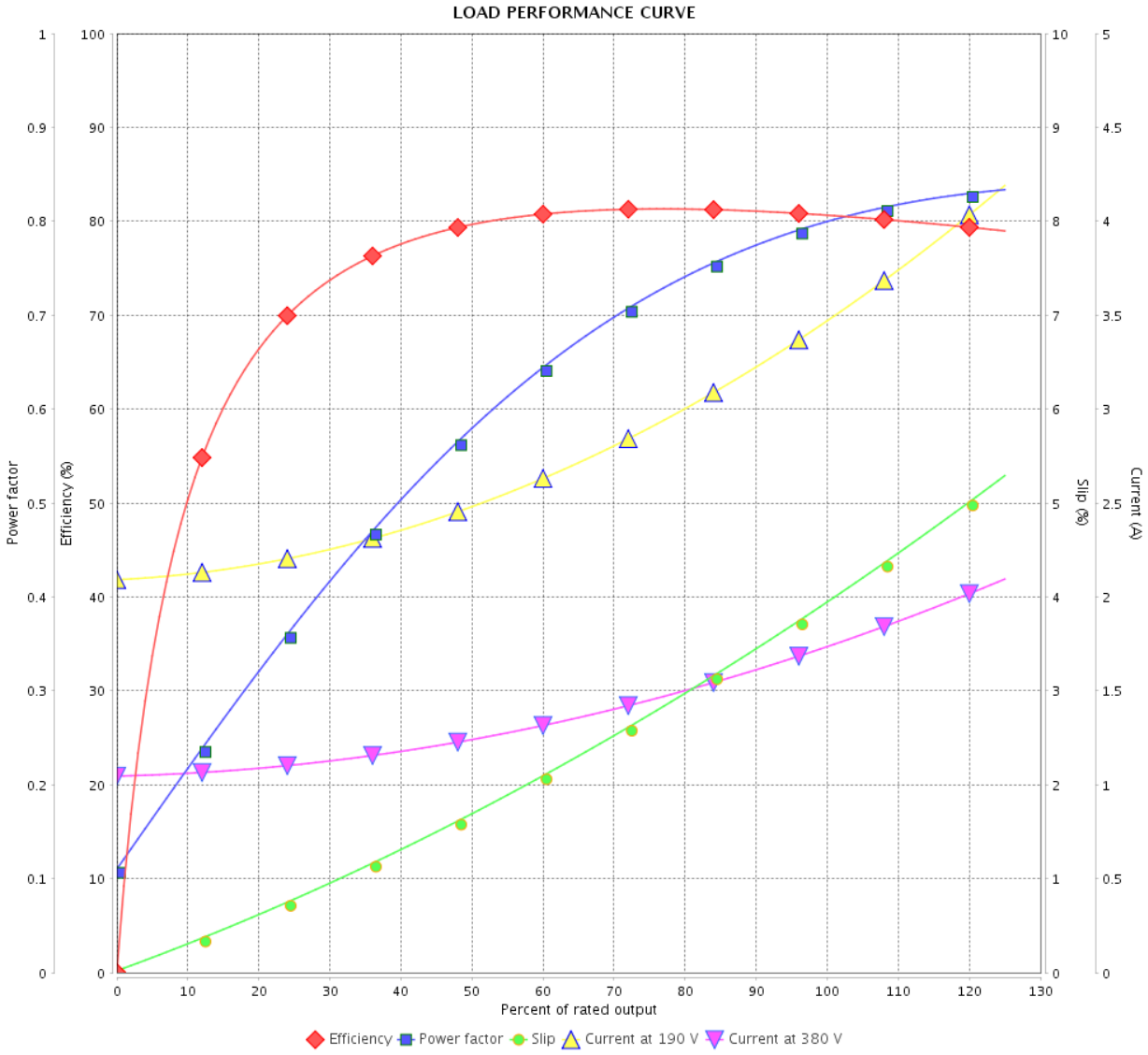
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13997241



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 3.54/1.77 A	Moment of inertia (J)	: 0.0036 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.504 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: A

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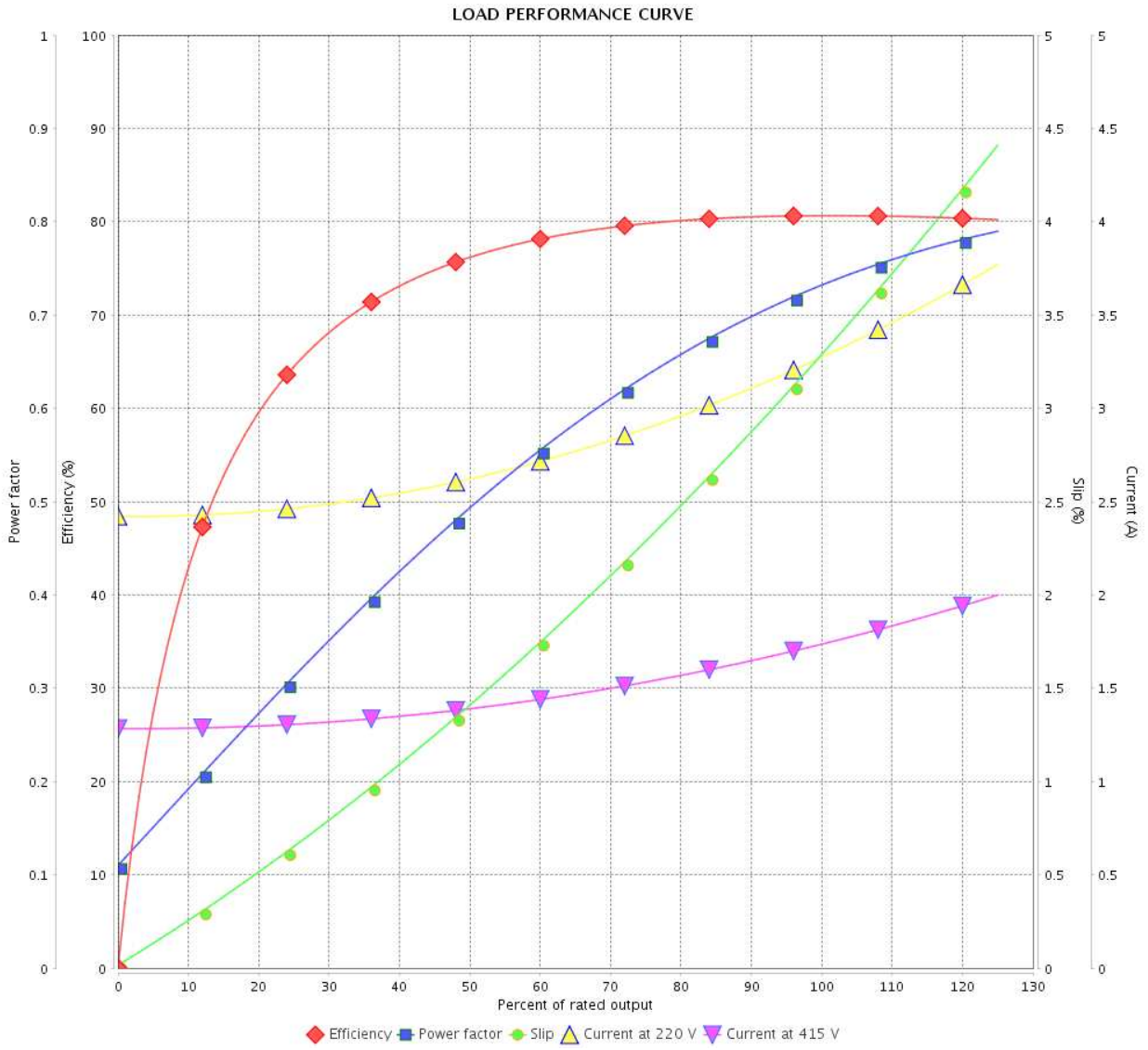
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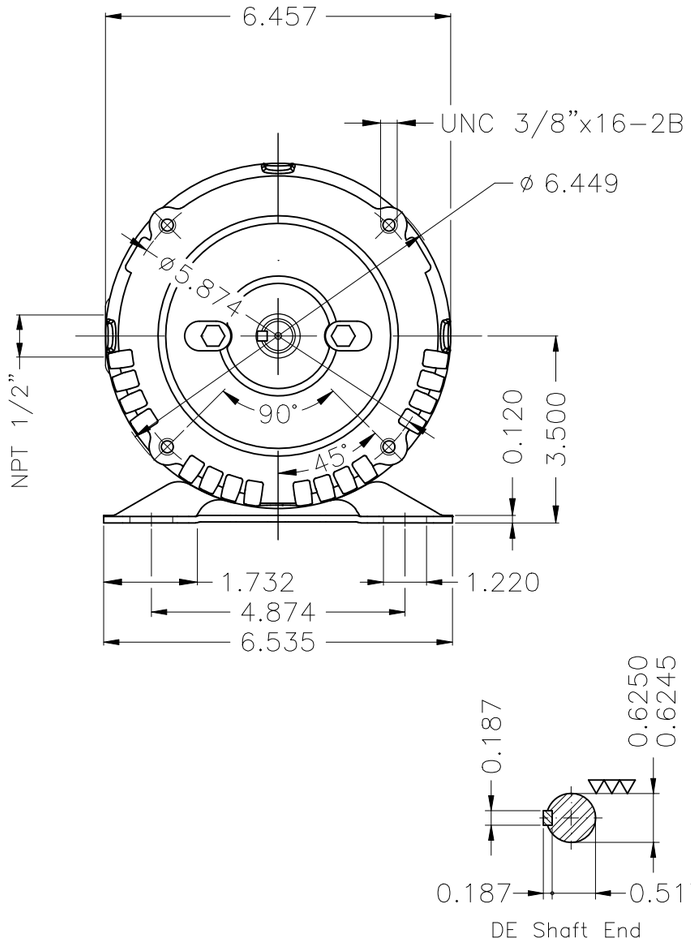


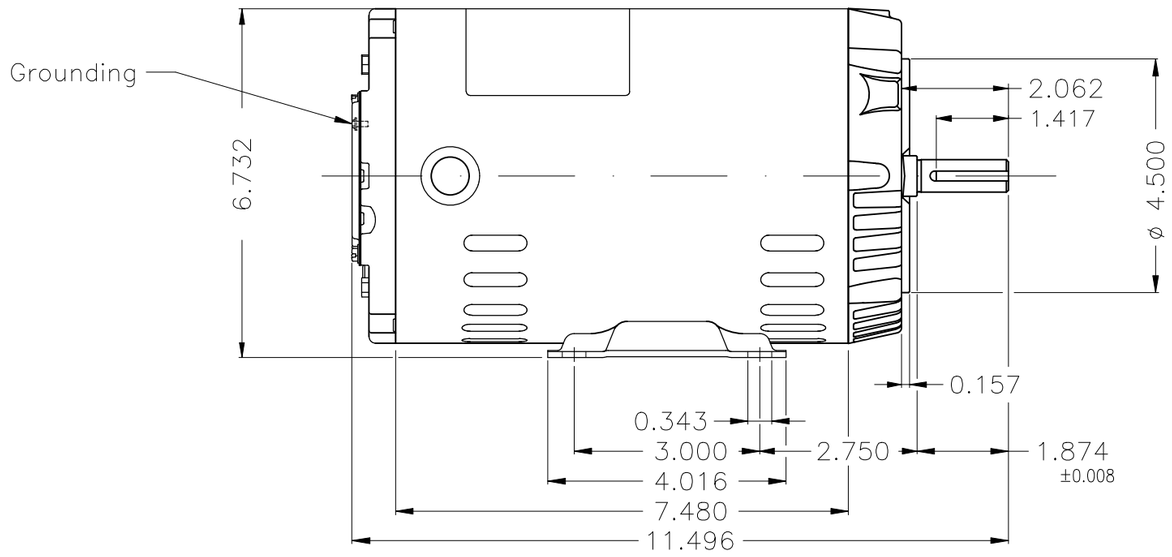
Performance	: 220/415 V 50 Hz 4P		
Rated current	: 3.34/1.77 A	Moment of inertia (J)	: 0.0036 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: A

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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 PREM. EFF.	PREVIEW		
CHECKED		FRAME 56C IP21 ODP	WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

1 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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