DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Three-Phase Product code : 13997115

Frame	: 56HC	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]	: 18.1 kg
Design	: A	Moment of inertia (J)	: 0.0054 kgm²

Output [HP]		3	3	3
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.18/3.59	8.78/4.39	7.56/4.01
L. R. Amperes [A]		57.4/28.7	53.6/26.8	56.0/29.7
LRC [A]		8.0x(Code J)	6.1x(Code G)	7.4x(Code J)
No load current [A]		2.60/1.30	2.60/1.30	2.91/1.54
Rated speed [RPM]		3480	2825	2860
Slip [%]		3.33	5.83	4.67
Rated torque [kgfm]		0.626	0.771	0.761
Locked rotor torque [%]		229	190	240
Breakdown torque [%]		300	229	270
Service factor			1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level[2]		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%			
	50%	84.0	86.6	86.2
	75%	85.5	85.0	85.9
	100%	85.5	81.8	83.9
Power Factor	25%			
	50%	0.76	0.83	0.76
	75%	0.86	0.90	0.86
	100%	0.90	0.93	0.91

		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 : 57 kgf
Max. compression : 75 kgf

Notes
USABLE @208V 7.94A SF 1.00 SFA 7.94A

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

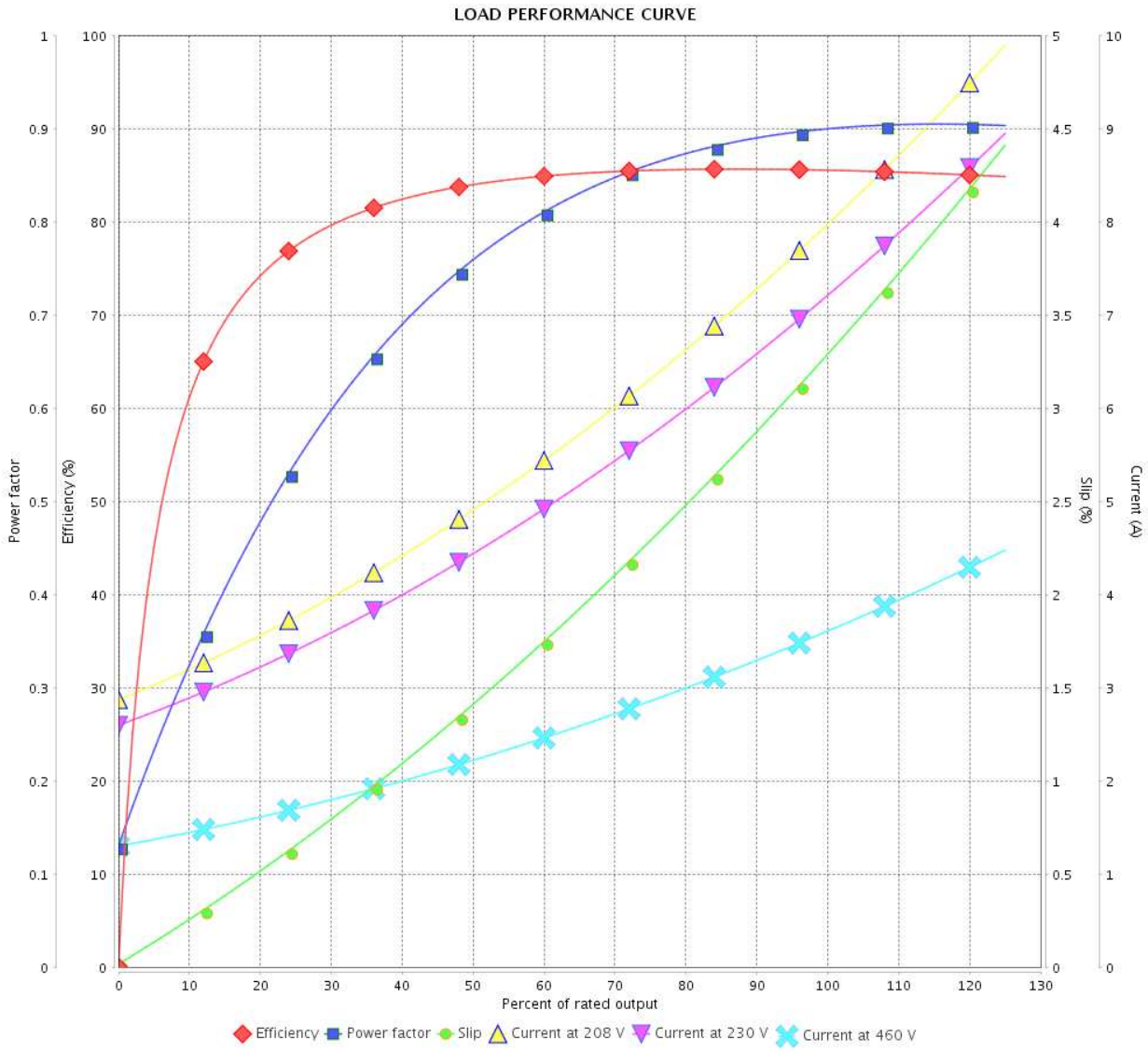
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13997115



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.18/3.59 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.626 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: A

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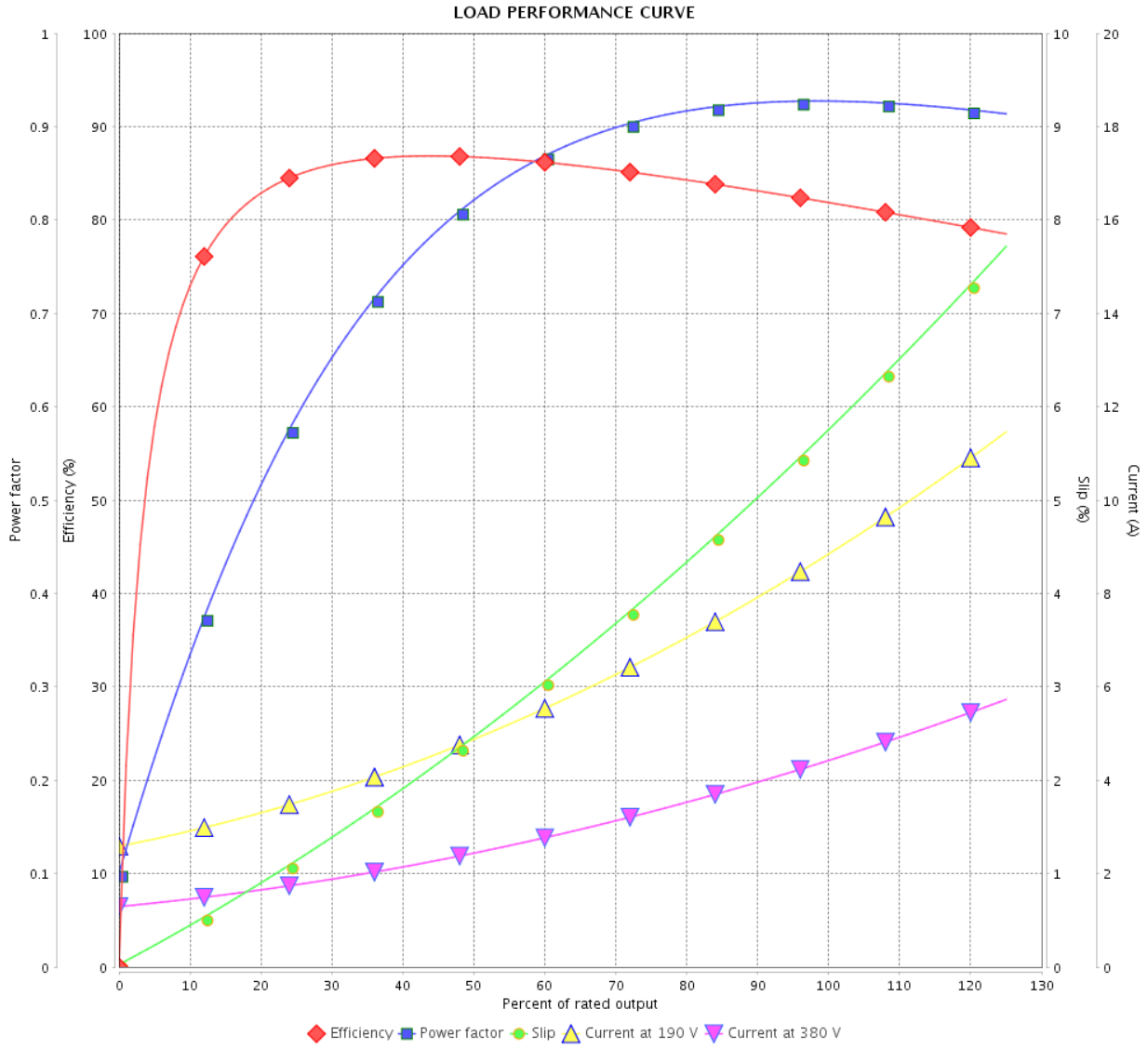
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13997115



Performance	: 190/380 V 50 Hz 2P				
Rated current	: 8.78/4.39 A		Moment of inertia (J)	: 0.0054 kgm²	
LRC	: 6.1		Duty cycle	: Cont.(S1)	
Rated torque	: 0.771 kgfm		Insulation class	: F	
Locked rotor torque	: 190 %		Service factor	: 1.00	
Breakdown torque	: 229 %		Temperature rise	: 105 K	
Rated speed	: 2825 rpm		Design	: A	

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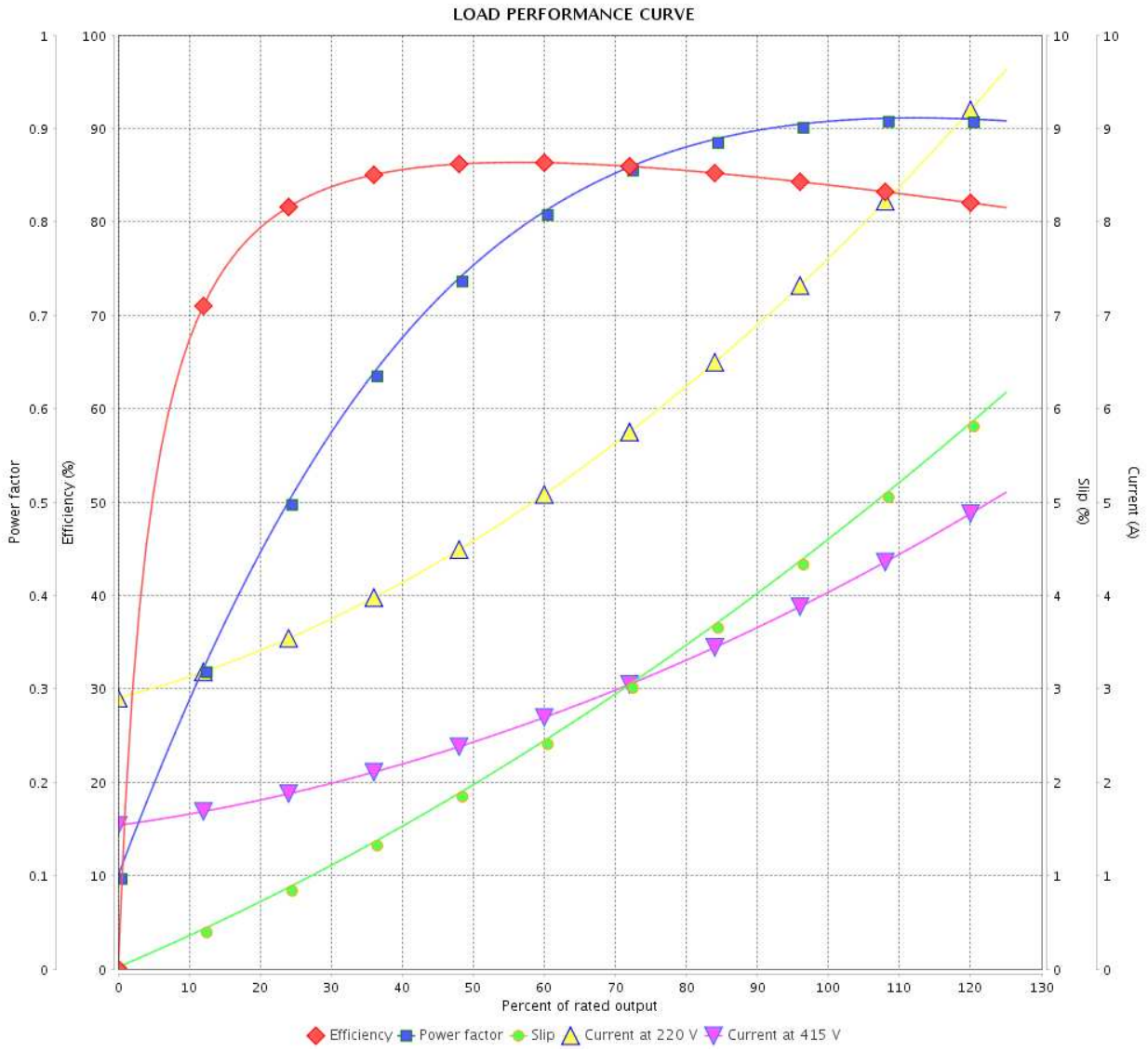
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13997115

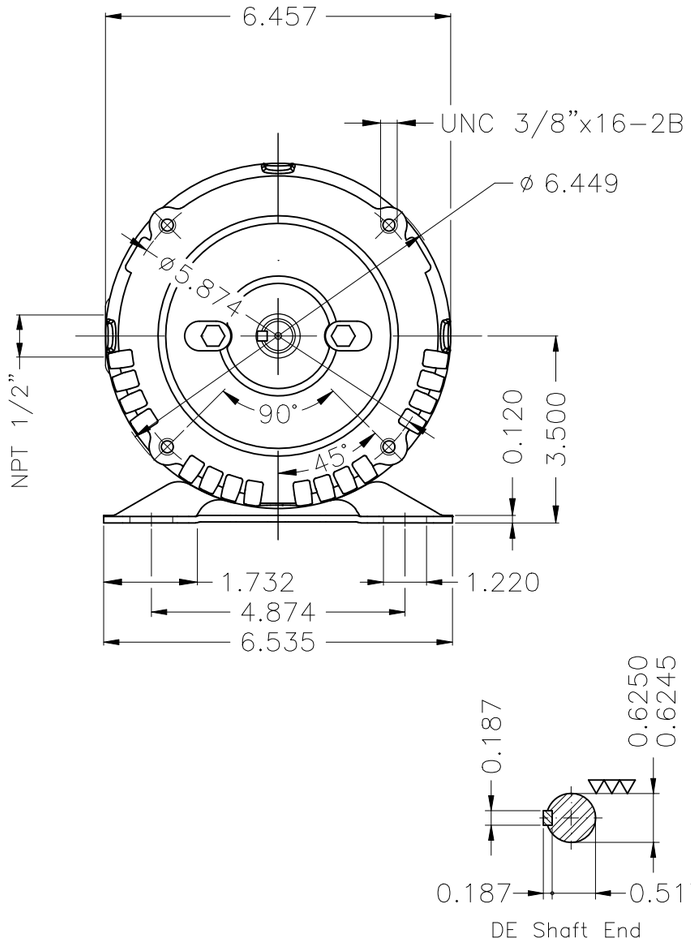


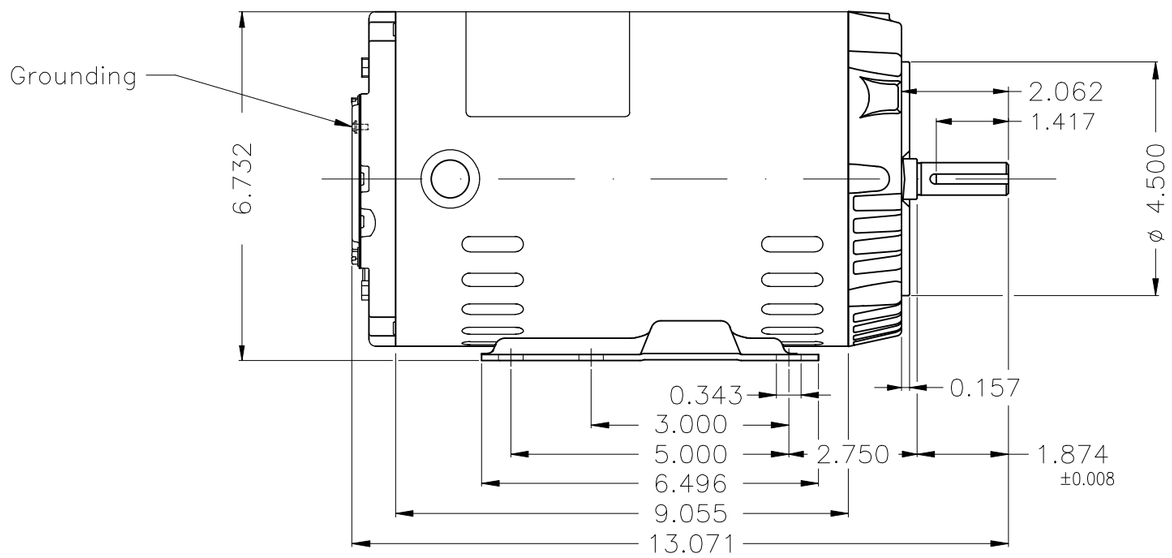
Performance	: 220/415 V 50 Hz 2P		
Rated current	: 7.56/4.01 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.761 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2860 rpm	Design	: A

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

Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.	PREVIEW	
CHECKED		FRAME 56HC 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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