DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Three-Phase	Product code :	13737457

Frame	: 56	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 16.8 kg
Design	: A	Moment of inertia (J)	: 0.0055 kgm²

Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.20/2.10	4.94/2.47	4.51/2.39
L. R. Amperes [A]		37.0/18.5	33.6/16.8	35.2/18.6
LRC [A]		8.8x(Code L)	6.8x(Code J)	7.8x(Code K)
No load current [A]		2.60/1.30	2.61/1.30	2.91/1.54
Rated speed [RPM]		1760	1445	1455
Slip [%]		2.22	3.67	3.00
Rated torque [kgfm]		0.619	0.753	0.748
Locked rotor torque [%]		290	220	280
Breakdown torque [%]		350	280	340
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	27s (cold) 15s (hot)	21s (cold) 12s (hot)
Noise level²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	84.0	83.7	81.6
	75%	85.5	84.7	84.0
	100%	86.5	83.6	84.2
Power Factor	25%			
	50%	0.53	0.61	0.53
	75%	0.66	0.74	0.67
	100%	0.76	0.81	0.76

		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 : 73 kgf

Max. compression : 90 kgf

Notes

USABLE @208V 4.64A SF 1.00 SFA 4.64A

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.

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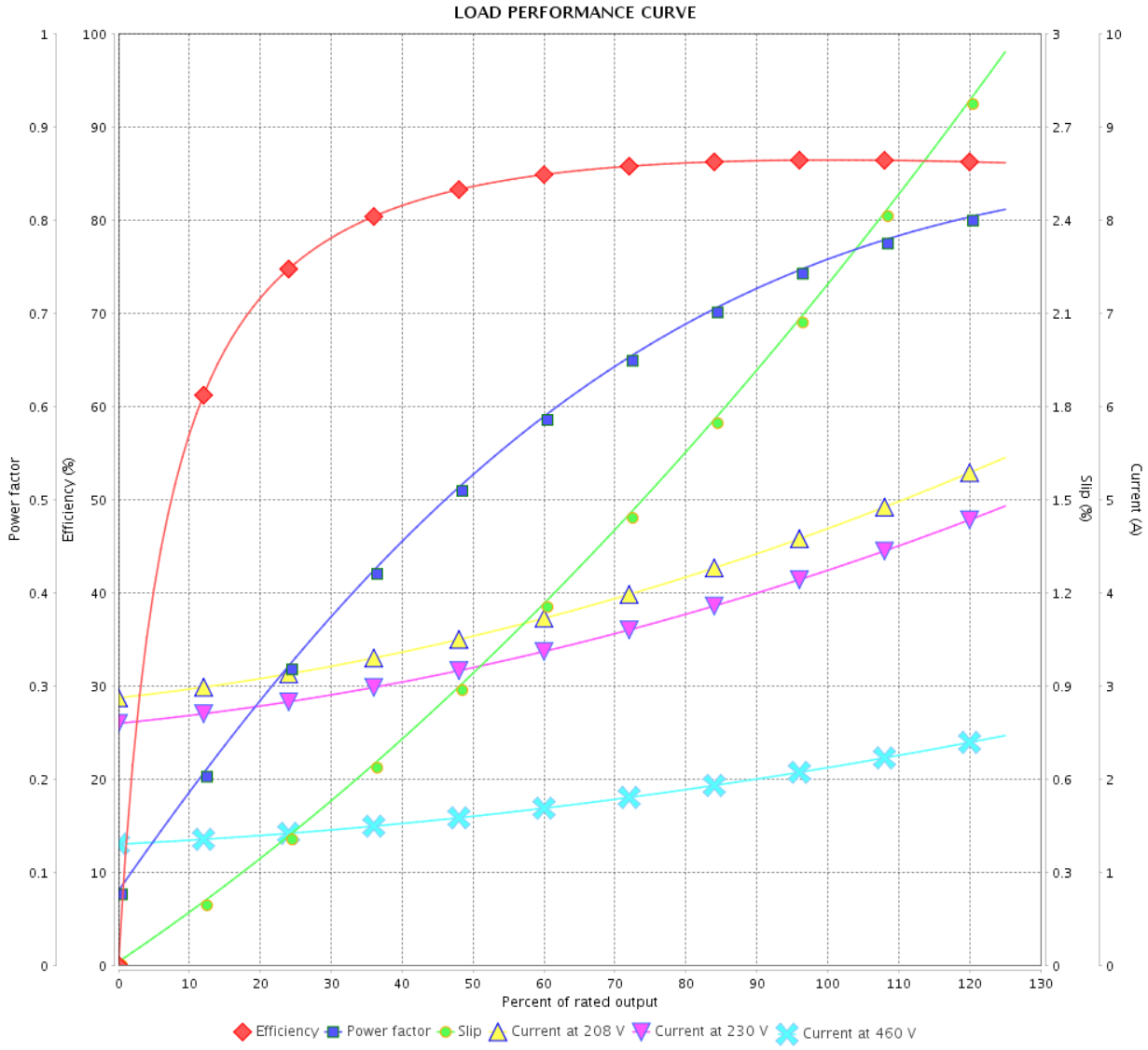
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13737457



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 4.20/2.10 A	Moment of inertia (J)	: 0.0055 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	:
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: A

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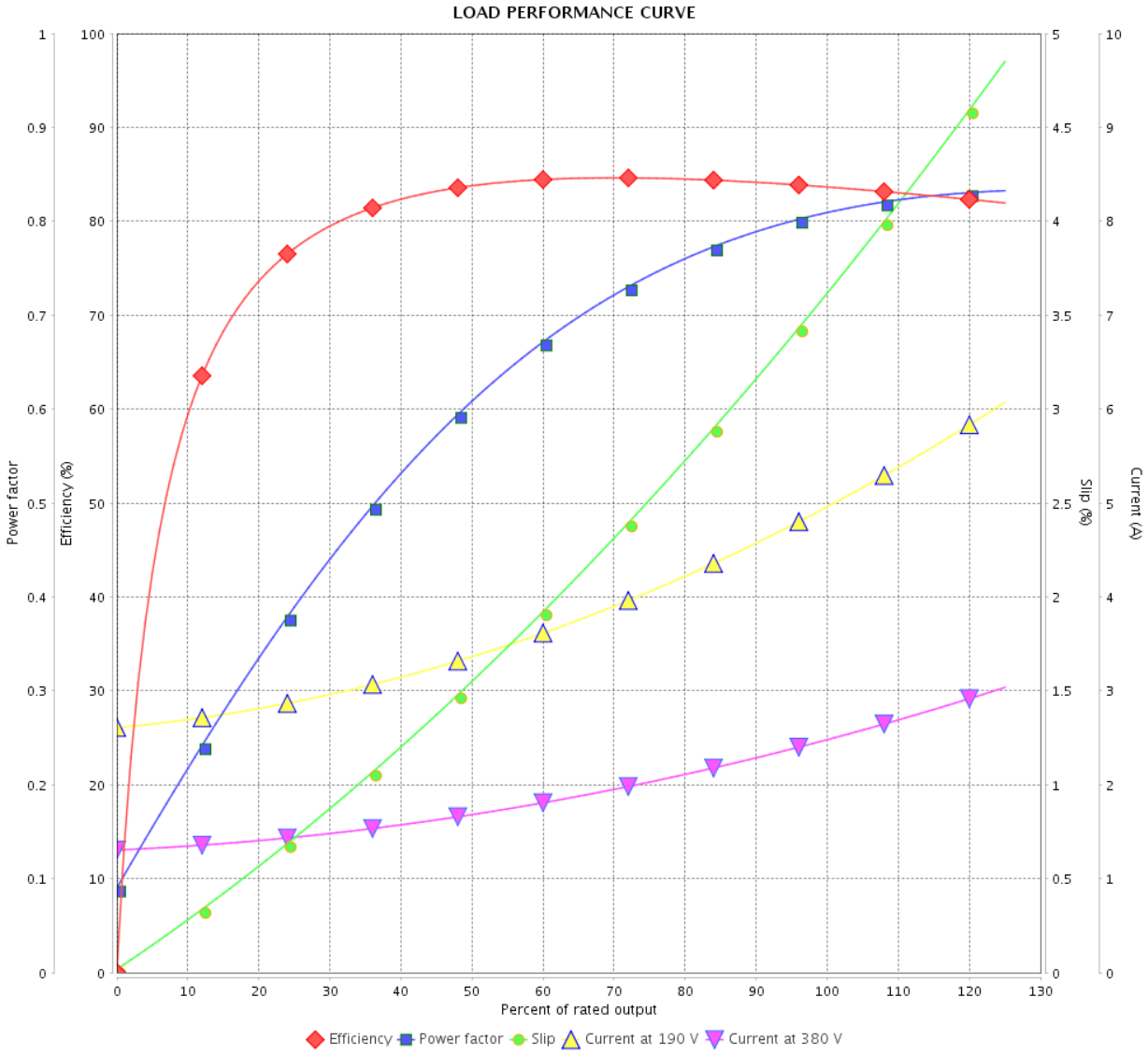

Performance	: 190/380 V 50 Hz 4P				
Rated current	: 4.94/2.47 A		Moment of inertia (J)	: 0.0055 kgm²	
LRC	: 6.8		Duty cycle	: Cont.(S1)	
Rated torque	: 0.753 kgfm		Insulation class	: F	
Locked rotor torque	: 220 %		Service factor	: 1.15	
Breakdown torque	: 280 %		Temperature rise	: 80 K	
Rated speed	: 1445 rpm		Design	: A	

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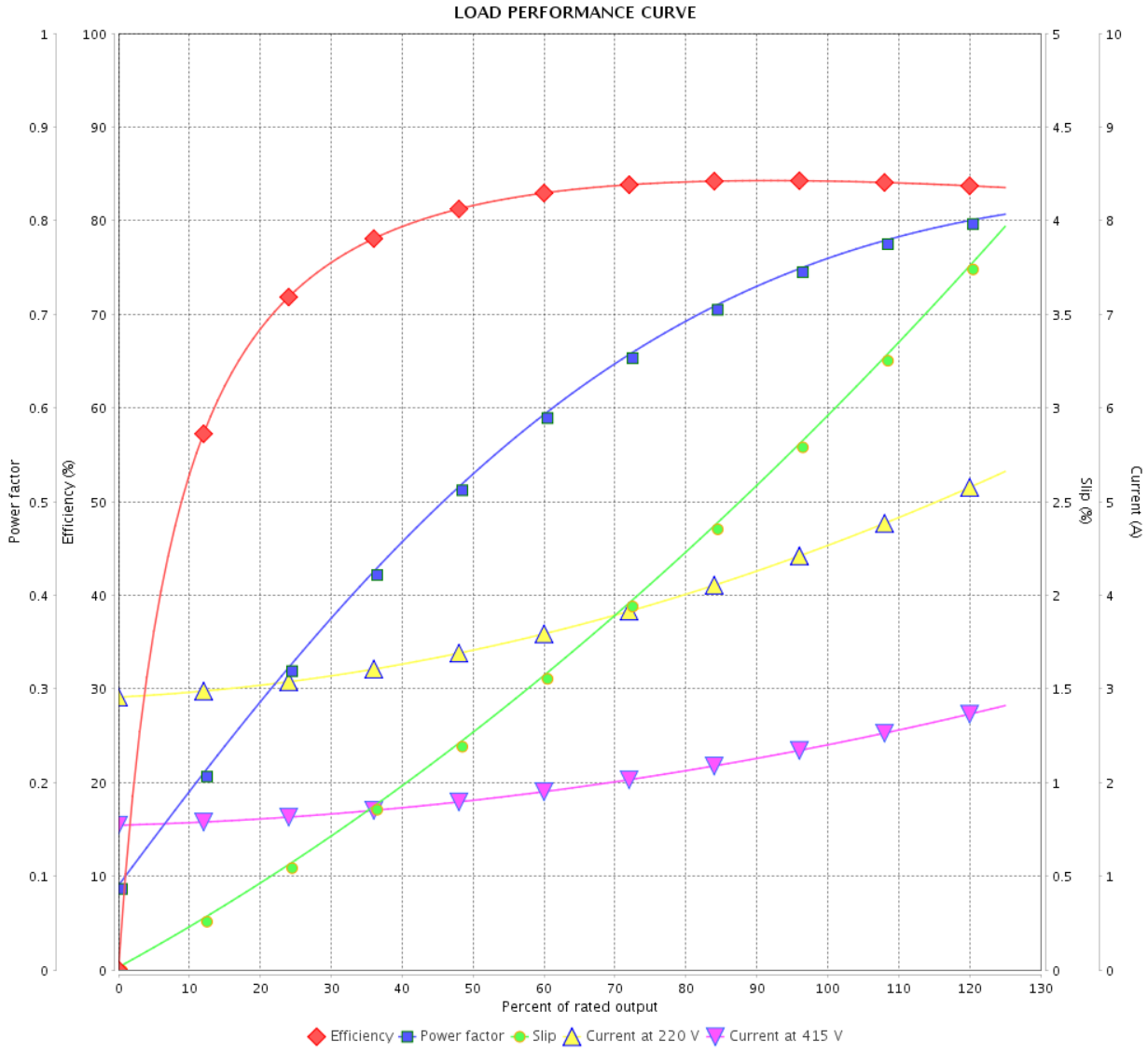

Performance	: 220/415 V 50 Hz 4P		
Rated current	: 4.51/2.39 A	Moment of inertia (J)	: 0.0055 kgm²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.748 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: A

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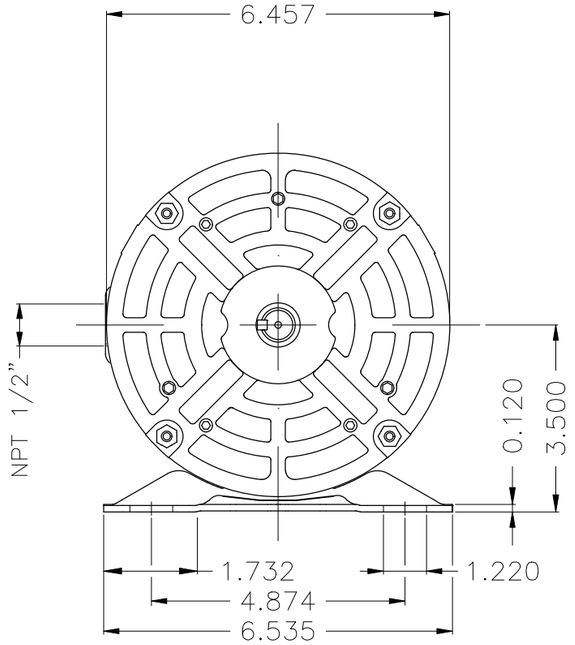

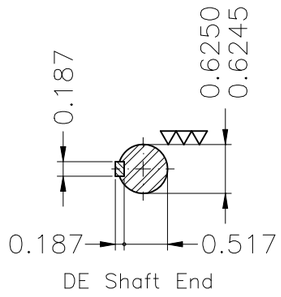

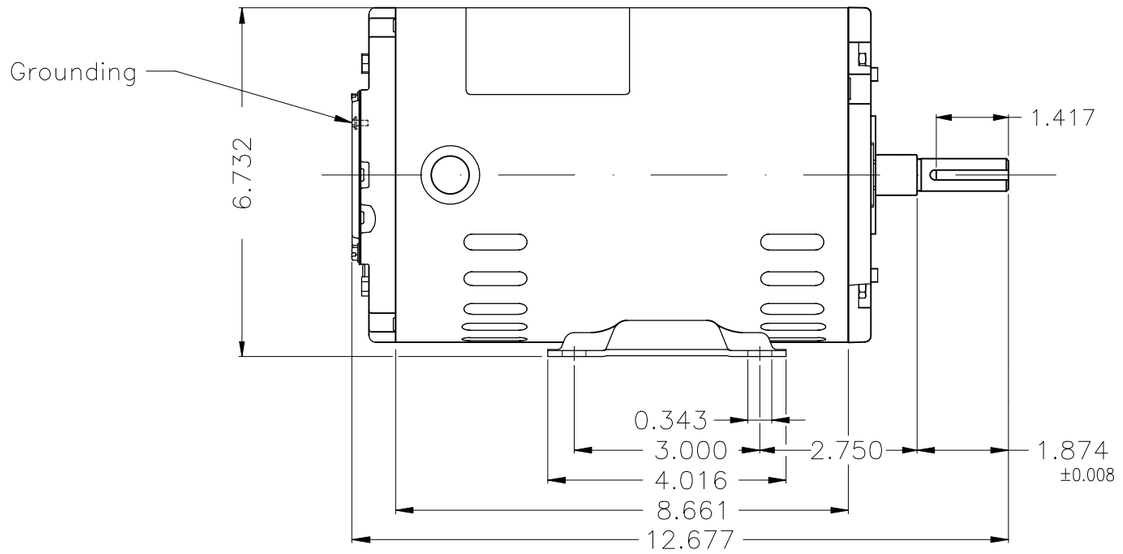

Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B3R(D)

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

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

1.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3