DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Premium Efficiency Three-Phase Product code : 14595231

Frame	: 56	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]	: 9.5 kg
		Moment of inertia (J)	: 0.0025 kgm²

Output [HP]		0.5	0.5	0.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190-220/380	415
Rated current [A]		1.90-1.72/0.861	1.89-1.63/0.943	0.959
L. R. Amperes [A]		13.7-12.4/6.20	10.9-9.45/5.47	6.04
LRC [A]		7.2x(Code L)	5.8x(Code J)	6.3x(Code K)
No load current [A]		1.12-1.30/0.650	1.23-1.07/0.617	0.737
Rated speed [RPM]		1765	1450	1460
Slip [%]		1.94	3.33	2.67
Rated torque [kgfm]		0.206	0.250	0.249
Locked rotor torque [%]		240	180	220
Breakdown torque [%]		330	260	320
Service factor			1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		48s (cold) 27s (hot)	55s (cold) 31s (hot)	46s (cold) 26s (hot)
Noise level[2]		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	70.0	72.6	68.9
	75%	75.5	76.6	74.6
	100%	78.2	77.4	76.7
Power Factor	25%			
	50%	0.47	0.55	0.47
	75%	0.60	0.68	0.60
	100%	0.69	0.77	0.70

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

Foundation loads
Max. traction : 20 kgf
Max. compression : 30 kgf

Notes
USABLE @208V SF 1.00

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

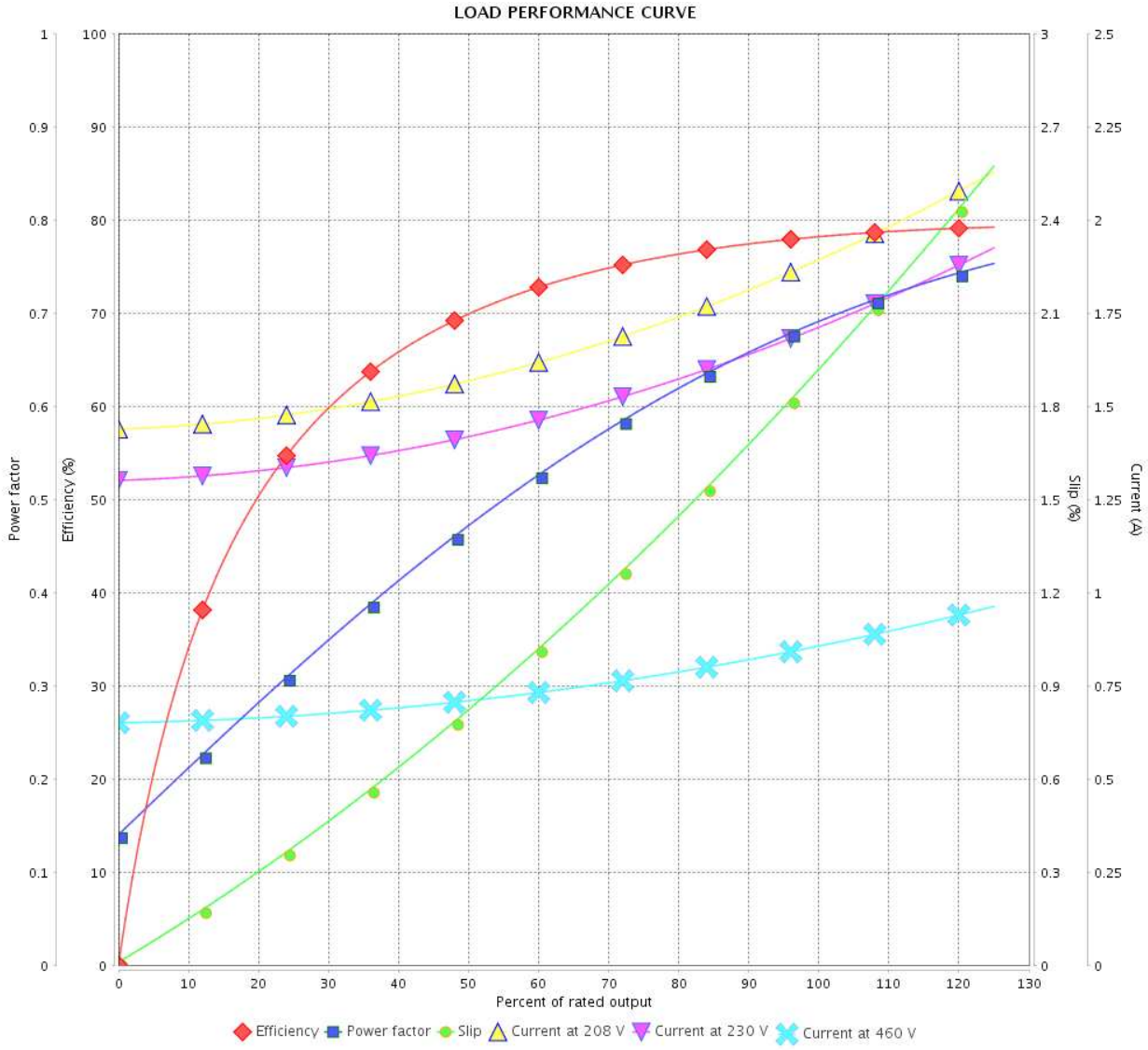
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Premium Efficiency Three-Phase	Product code :	14595231



Performance	: 208-230/460 V 60 Hz 4P		
Rated current	: 1.90-1.72/0.861 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.206 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm		

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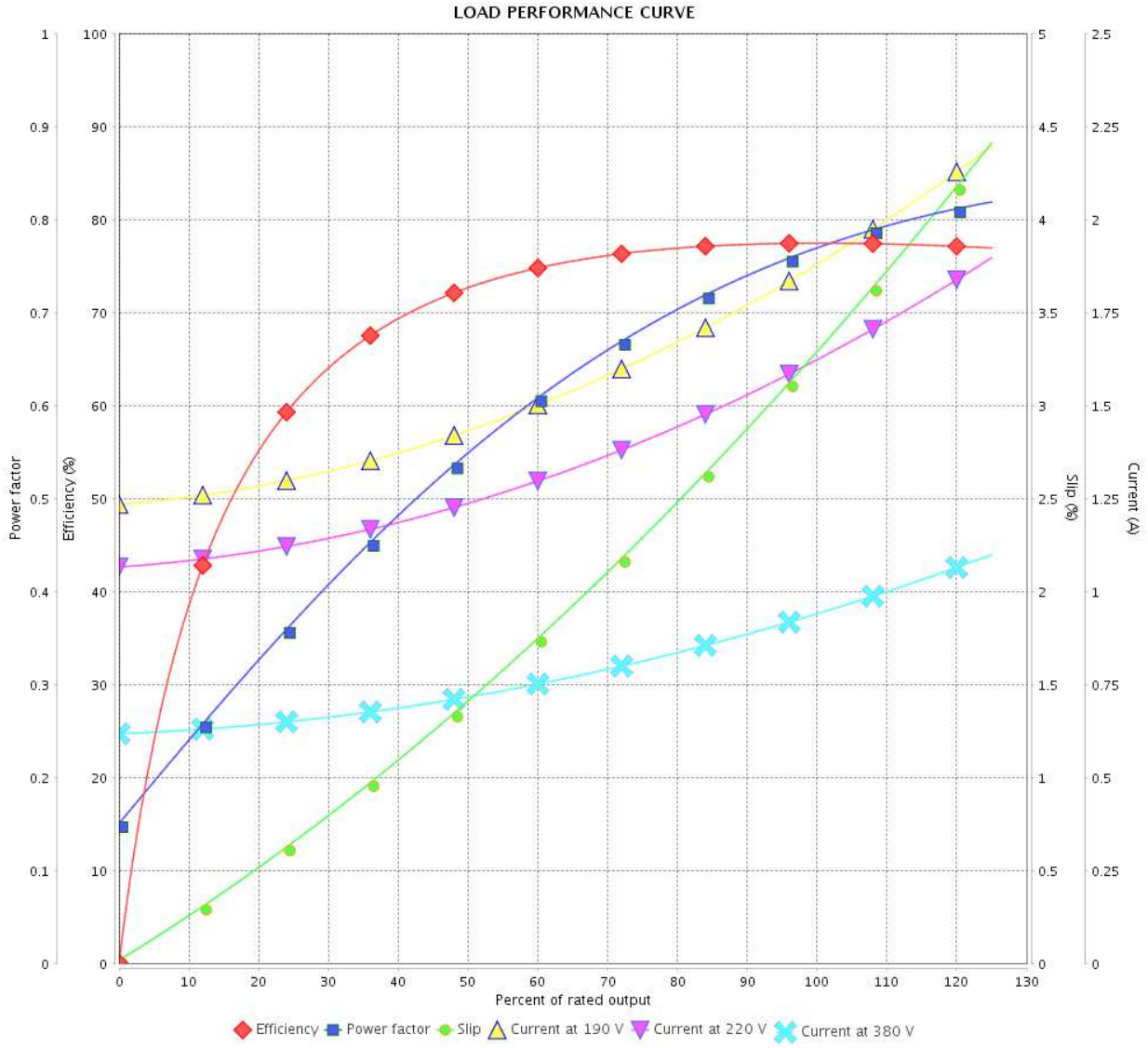
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Premium Efficiency Three-Phase	Product code :	14595231



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 1.89-1.63/0.943 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.250 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm		

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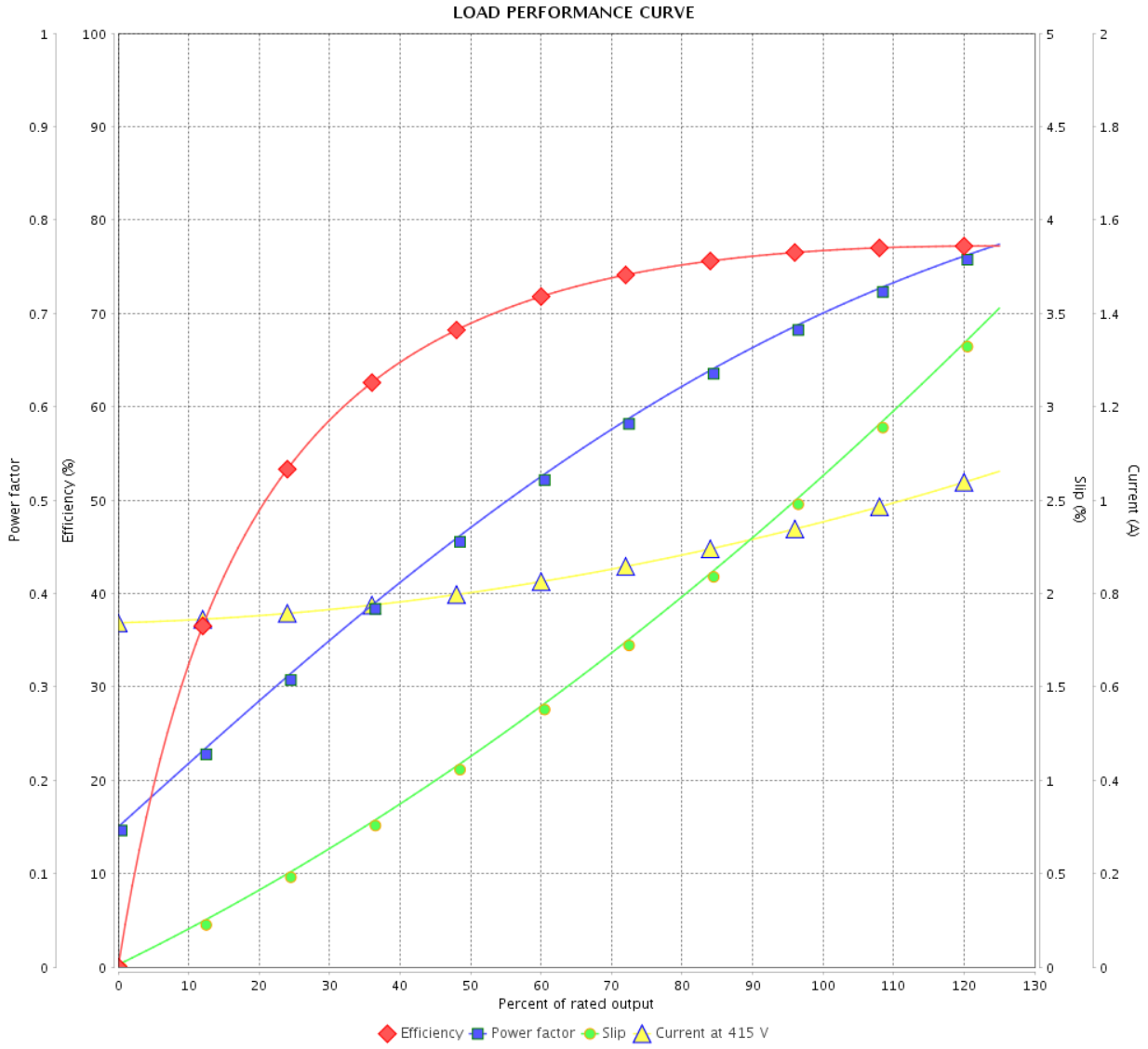
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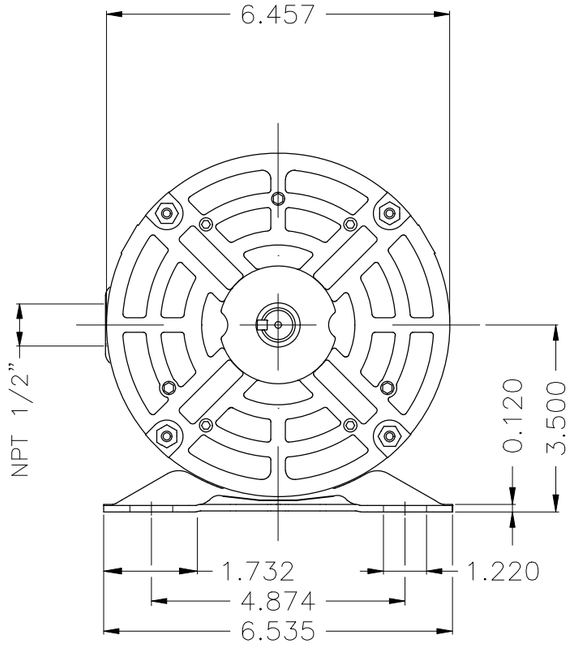


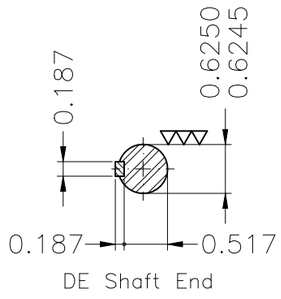
Performance	: 415 V 50 Hz 4P		
Rated current	: 0.959 A	Moment of inertia (J)	: 0.0025 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.249 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm		

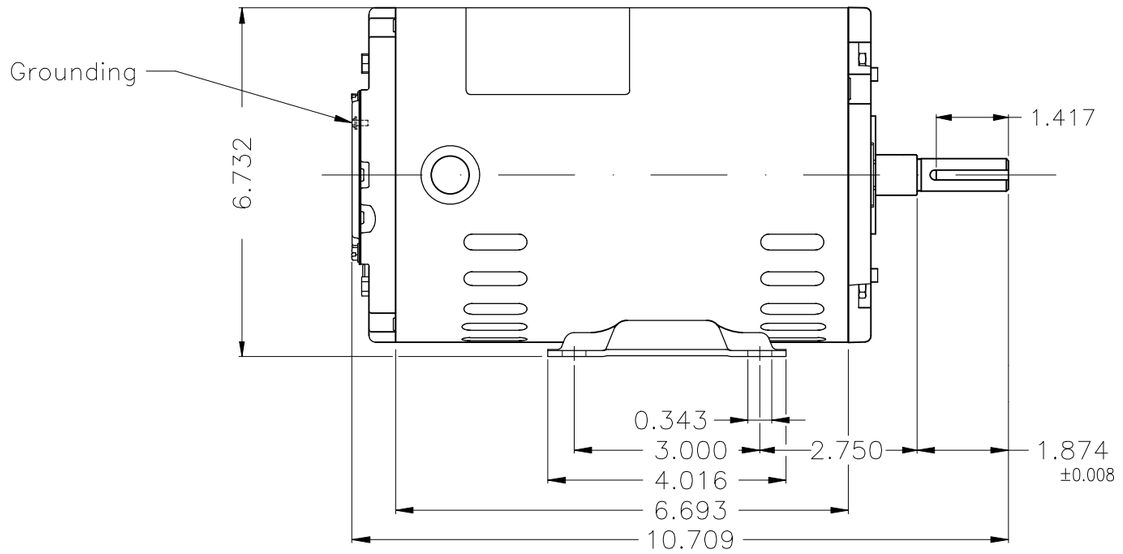
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Color Munsell N 1 matte black

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	

0.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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