DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Three-Phase	Product code :	13702735

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]	: 17.4 kg
Design	: A	Moment of inertia (J)	: 0.0049 kgm²

Output [HP]		2	2	2
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.38/2.69	6.52/3.26	5.79/3.07
L. R. Amperes [A]		41.4/20.7	36.5/18.3	38.8/20.6
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.7x(Code J)
No load current [A]		2.75/1.38	2.70/1.35	3.08/1.63
Rated speed [RPM]		1740	1410	1430
Slip [%]		3.33	6.00	4.67
Rated torque [kgfm]		0.834	1.03	1.02
Locked rotor torque [%]		260	200	250
Breakdown torque [%]		320	229	280
Service factor			1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)
Noise level[2]		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	85.5	85.9	84.6
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.8
Power Factor	25%			
	50%	0.61	0.69	0.61
	75%	0.74	0.80	0.74
	100%	0.81	0.85	0.81

		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 : 83 kgf

Max. compression : 100 kgf

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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

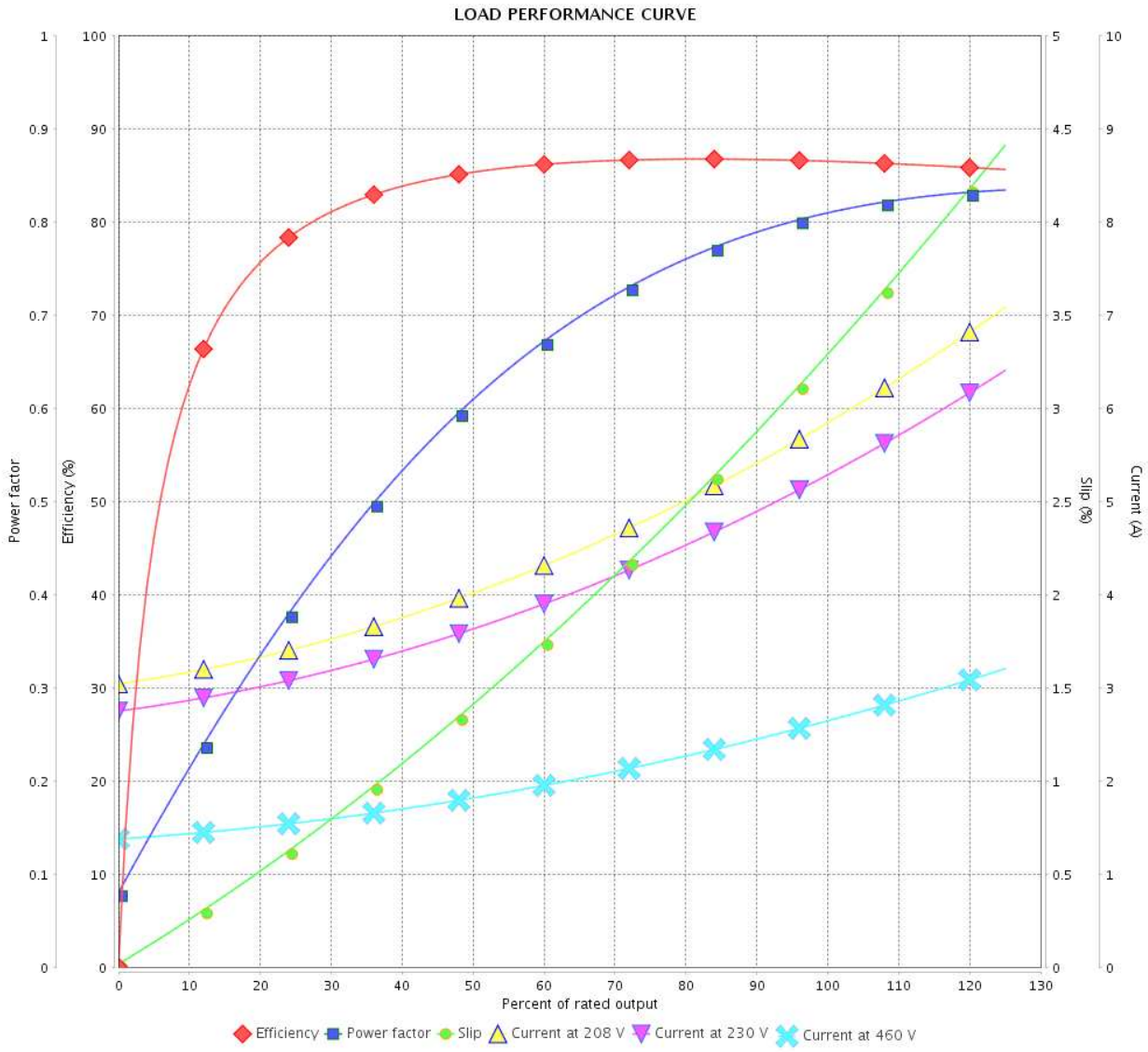
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13702735



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 5.38/2.69 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.834 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	:
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: A

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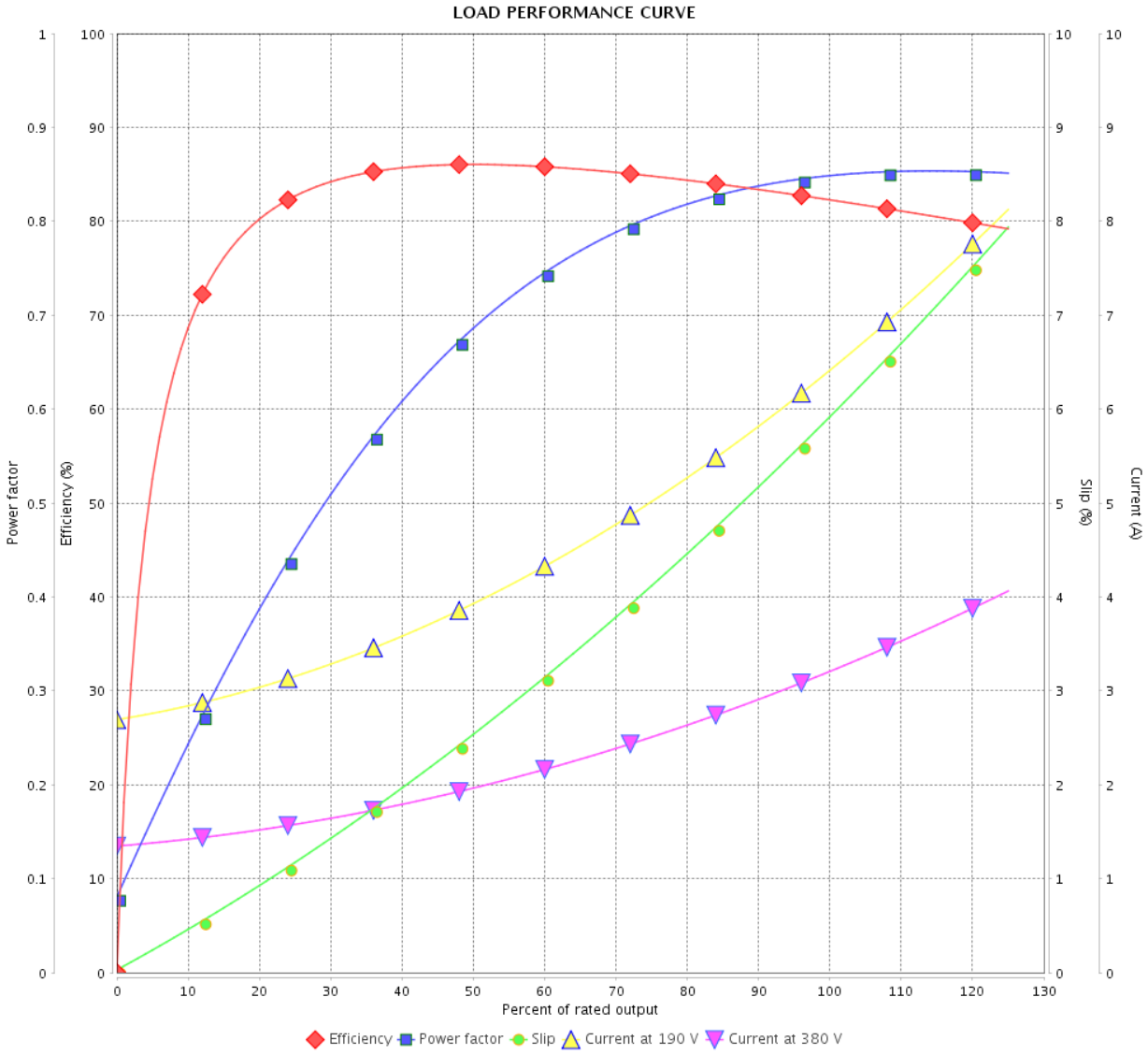
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Three-Phase	Product code :	13702735



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 6.52/3.26 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 1.03 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1410 rpm	Design	: A

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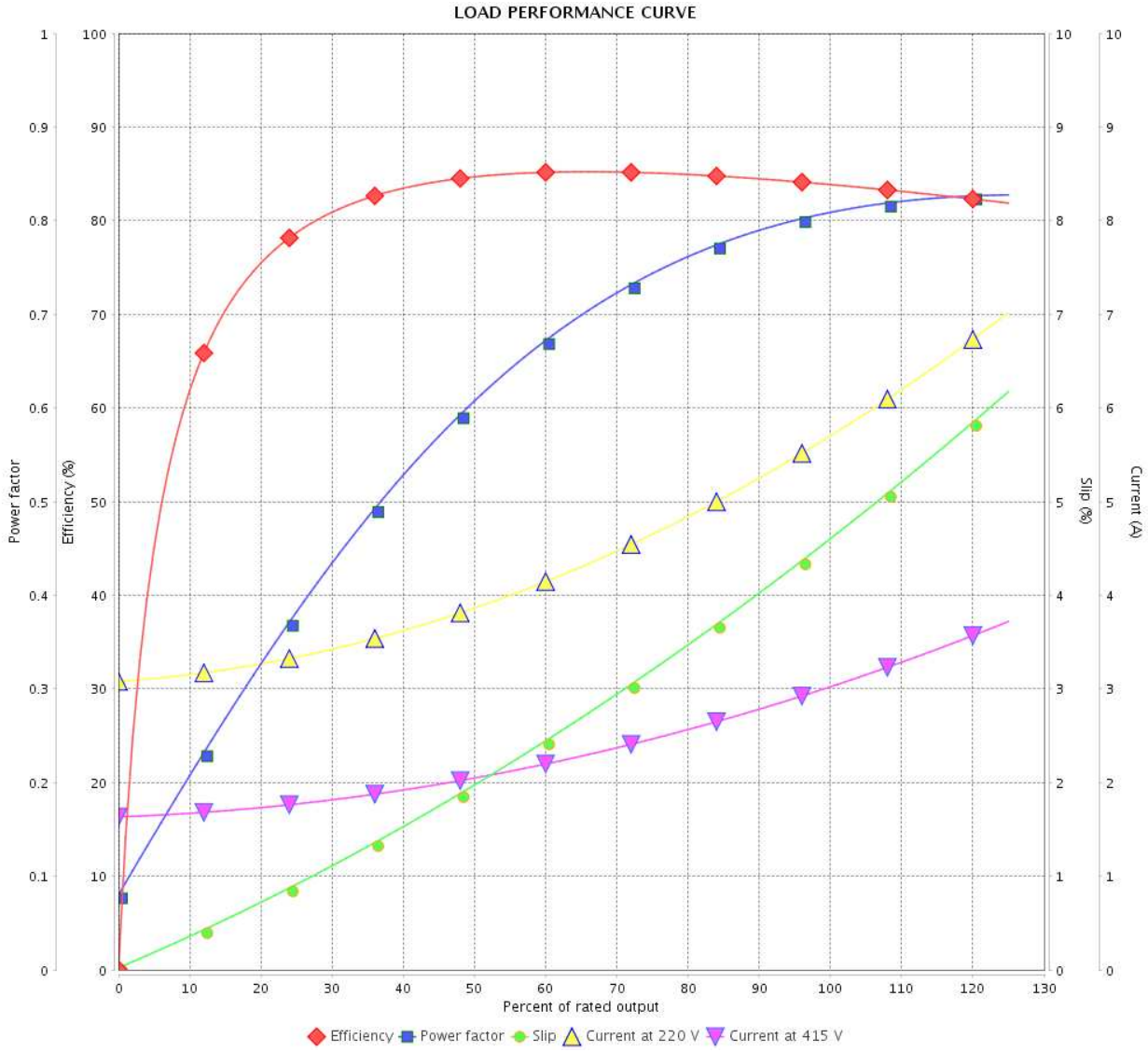
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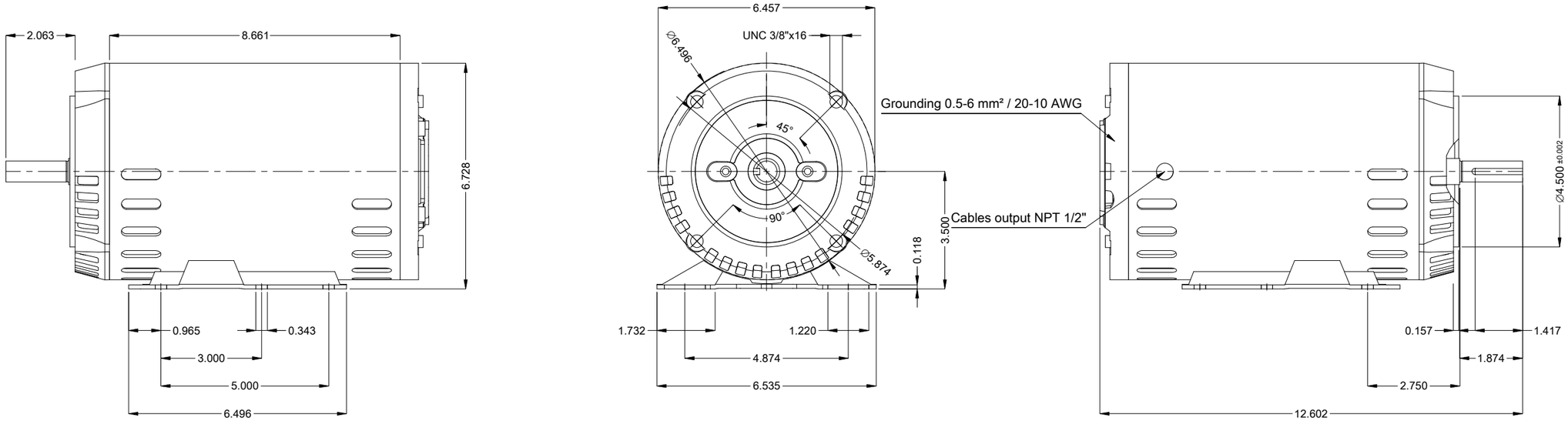


Performance	: 220/415 V 50 Hz 4P		
Rated current	: 5.79/3.07 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.02 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: A

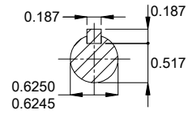
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DE Shaft End



- Reinforce the foot with 2 mig welding spots
- Color Munsell N 1 matte black
- Painting plan 207N
- Mounting MARKET F-1/B34R(D)
- Mounting B34D

2 HP 04 Poles 60 Hz | A

Scale 2 : 7

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL PREM. EFF.
FRAME 56HC IP21 ODP

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in inches

A3

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