DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675401

Frame	: 143/5T	Cooling method	: IC411 - TEFC
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]	: 19.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm²
Design	: B		

Output [HP]		2
Poles		4
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		2.18
L. R. Amperes [A]		17.8
LRC [A]		8.2x(Code K)
No load current [A]		1.12
Rated speed [RPM]		1745
Slip [%]		3.06
Rated torque [kgfm]		0.832
Locked rotor torque [%]		270
Breakdown torque [%]		300
Service factor		1.15
Temperature rise		80 K
Locked rotor time		27s (cold) 15s (hot)
Noise level[2]		52.0 dB(A)
Efficiency (%)	25%	
	50%	85.5
	75%	87.5
	100%	86.5
Power Factor	25%	
	50%	0.60
	75%	0.73
	100%	0.80

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 61 kgf

Max. compression : 81 kgf

Notes

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

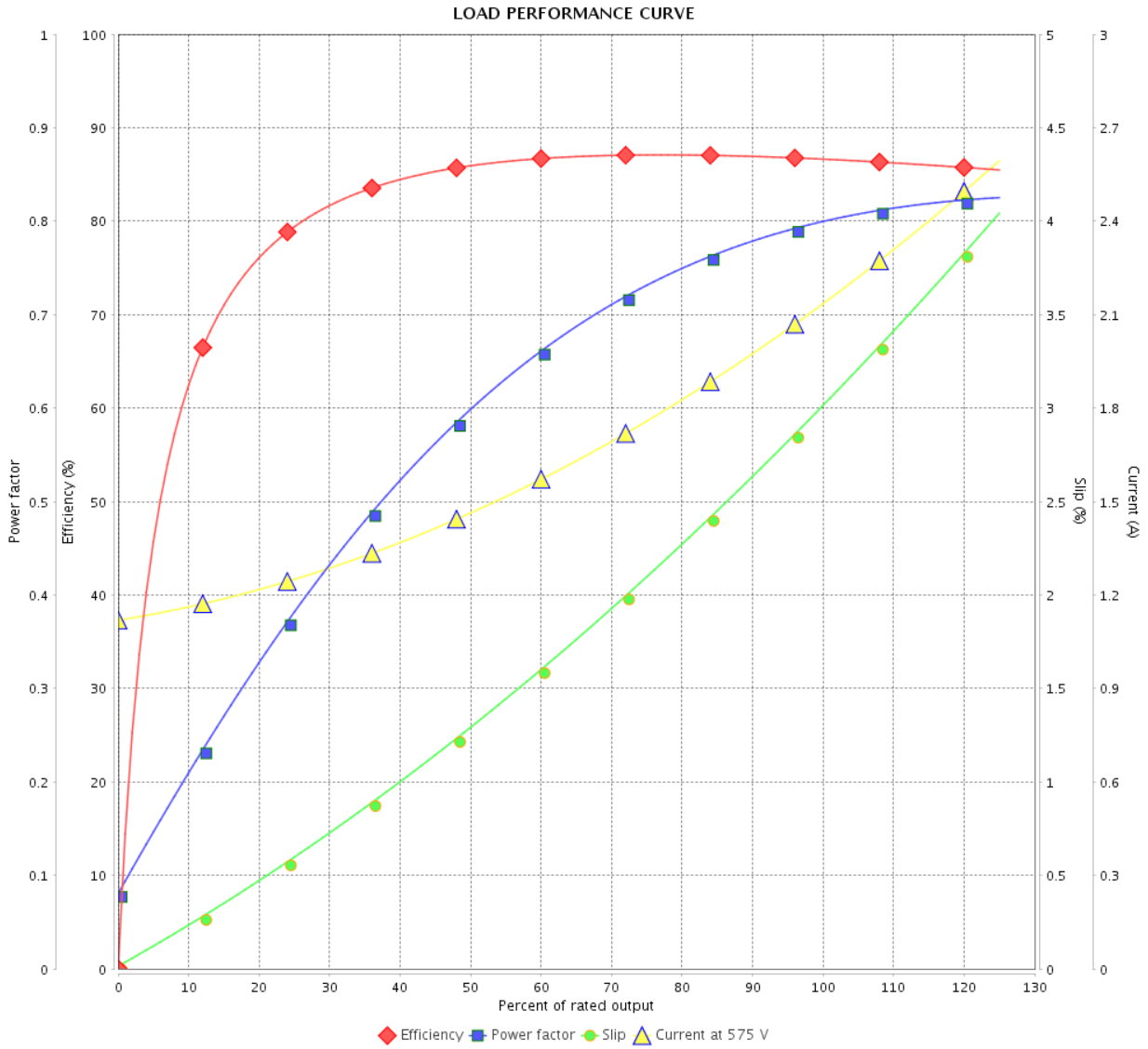
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675401

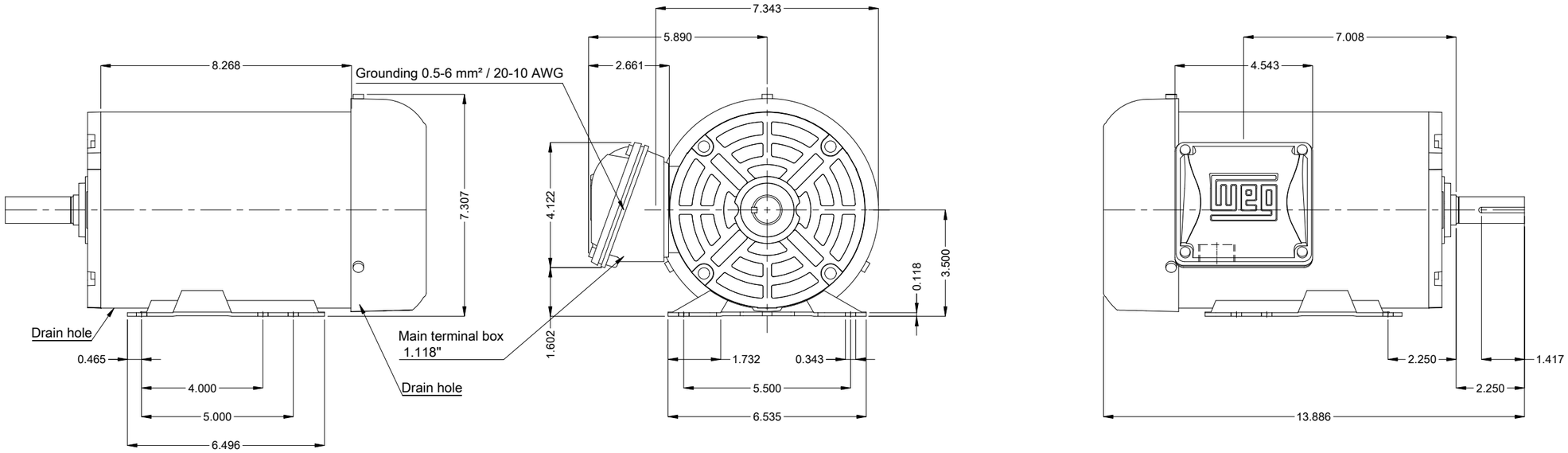


Performance	: 575 V 60 Hz 4P		
Rated current	: 2.18 A	Moment of inertia (J)	: 0.0055 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.832 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

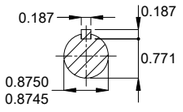
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E	Reinforce the foot with 2 mig welding spots
	Fan cover - steel plate
	Color Munsell N 1 matte black
	Painting plan 207N
	Mounting MARKET F-1/B3R(D)
	Mounting F-1/B3R(D)

DE Shaft End



2 HP 04 Poles 60 Hz

A

Scale 1 : 4

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.
FRAME 143/5T IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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