DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: V.J. PAMENSKY CANADA INC.
Product line	: W01 - TEFC - Nema Premium Efficiency Derating Product code : 18458553

Frame	: 143/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight³	: 38.4 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1234 sq.ft.lb
Design	: B		

Output		1 HP (0.75 kW)	1 HP (0.75 kW)	1 HP (0.75 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		2.94/1.47 A	3.40/1.70 A	3.06/1.62 A
L. R. Amperes		25.3/12.6 A	22.1/11.1 A	22.9/12.2 A
LRC		8.6	6.5	7.5
No load current		1.78/0.890 A	1.76/0.879 A	1.86/0.988 A
Rated speed		1765 rpm	1450 rpm	1460 rpm
Slip		1.94 %	3.33 %	2.67 %
Rated torque		2.94 ft.lb	3.57 ft.lb	3.54 ft.lb
Locked rotor torque		280 %	200 %	250 %
Pull up torque		235 %	170 %	210 %
Breakdown torque		300 %	270 %	330 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Locked rotor time (hot)		19 s	29 s	25 s
Locked rotor time (cold)		34 s	52 s	45 s
Efficiency (%)	50%	82.5	82.2	80.9
	75%	84.0	83.7	83.5
	100%	85.5	82.9	83.7
Power Factor	50%	0.52	0.62	0.55
	75%	0.66	0.74	0.68
	100%	0.75	0.81	0.77

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1(0,9;1,0)	18.2	19.1	18.3
	P2(0,5;1,0)	15.3	16.1	15.4
	P3(0,25;1,0)	15.5	16.3	15.6
	P4(0,9;0,5)	10.8	11.4	10.9
	P5(0,5;0,5)	7.7	8.0	7.7
	P6(0,5;0,25)	6.1	6.4	6.1
	P7(0,25;0,25)	4.6	4.8	4.7

	Drive end	Non drive end
Bearing type	6205-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	:
Max. compression	:
Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

Notes
See notes on page 2.

Rev.	Changes Summary	Rev.	Checked	Date

Performed by	farazq		1858910000	
Checked by	AUTOMATICO		Page	Rev.
Date	10/06/2026		1 / 2	0

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Thermal protection ID	Application	Type	Quantity	Sensing Temperature

Notes
USABLE @208V 3.25A SF 1.00 SFA 3.25A

Standards				
	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

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 be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

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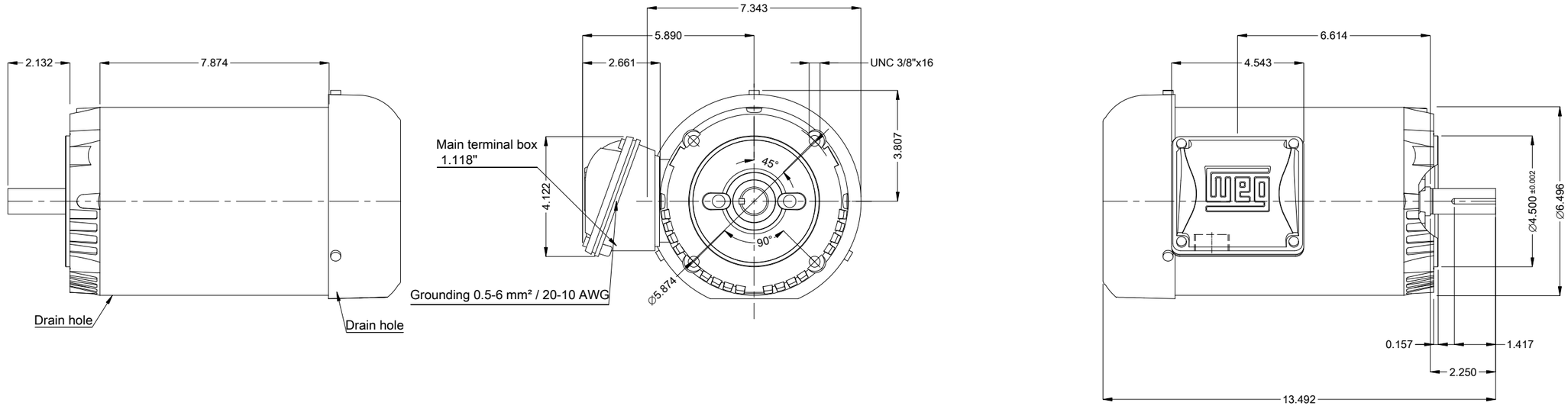
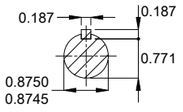


DE Shaft End



Fan cover - steel plate
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B14R(D)
Mounting F-1/B14R(D)

1 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 143/5TC IP55 TEFC

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in inches

A3

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