DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code :	19410078

Frame	: 254/6T	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 48.2/24.1 A	Protection degree	: IP55
L. R. Amperes	: 313/157 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 19.2/9.60 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level²	: 64.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 8.20 kgfm	Approx. weight³	: 132 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1305 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	91.7	92.4	93.0
Power Factor	0.68	0.79	0.84

Foundation loads

Max. traction	: 333 kgf
Max. compression	: 478 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.5	6.5	6.0	3.5	2.5	1.6	1.2

		Drive end	Non drive end
Bearing type	:	6309 2RS C3	6209 2RS C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Space heater information

Voltage: 110-127/200-240 V

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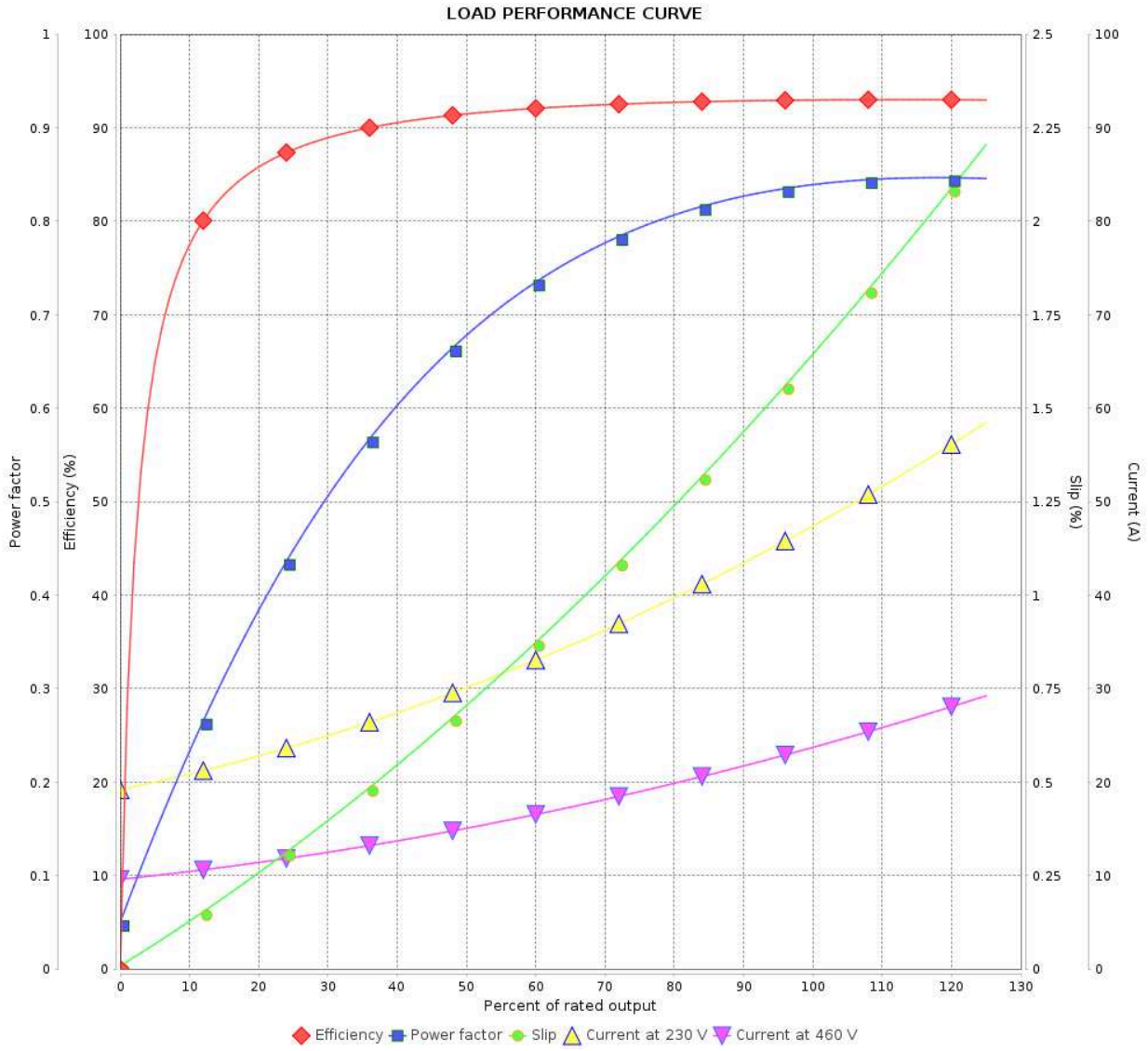
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase

Product code : 19410078

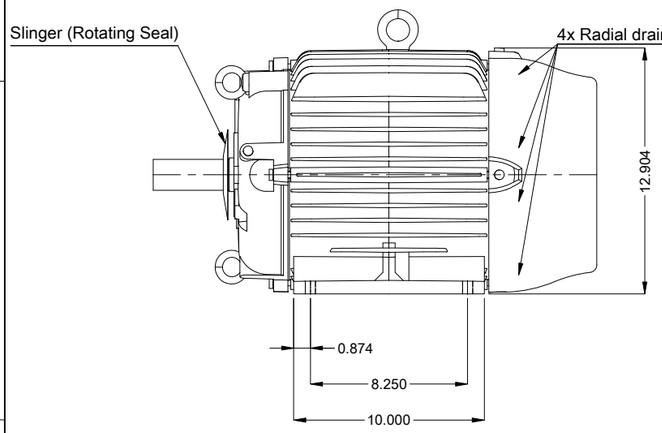


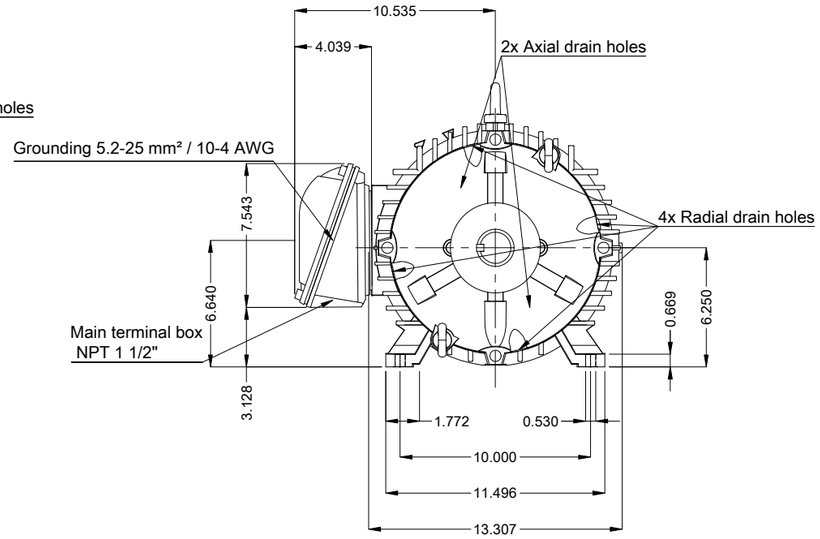
Performance	: 230/460 V 60 Hz 4P		
Rated current	: 48.2/24.1 A	Moment of inertia (J)	: 0.1305 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

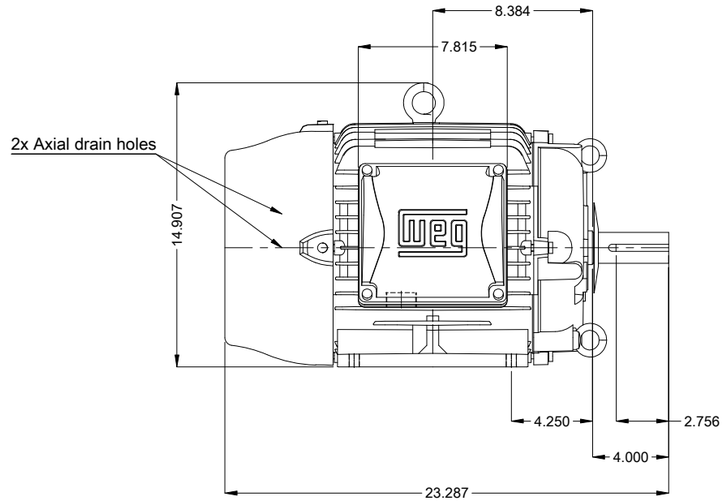
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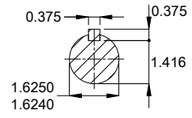
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DE Shaft End



Color RAL 5009
Painting plan 222E
Mounting NEMA F-1
Mounting B3R(D)

15 HP 04 Poles 60 Hz | A

V.J. PAMENSKY CANADA INC.

Scale 1 : 8

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

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR COOLING TOWER W22 NEMA PREM. EFF.
FRAME 254T IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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