DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 17274227

Frame	: 324/6T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 47.4 A	Protection degree	: IP55
L. R. Amperes	: 294 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 18.8 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level[2]	: 70.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 20.4 kgfm	Approx. weight[3]	: 273 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3861 kgm²		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.0	94.1	94.5
Power Factor	0.00	0.66	0.77	0.83

Foundation loads

Max. traction : 558 kgf

Max. compression : 831 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)
5.7	4.9	4.7	2.7	1.9	1.2	0.9

		Drive end	Non drive end
Bearing type	:	6312 2RS C3	6212 2RS C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

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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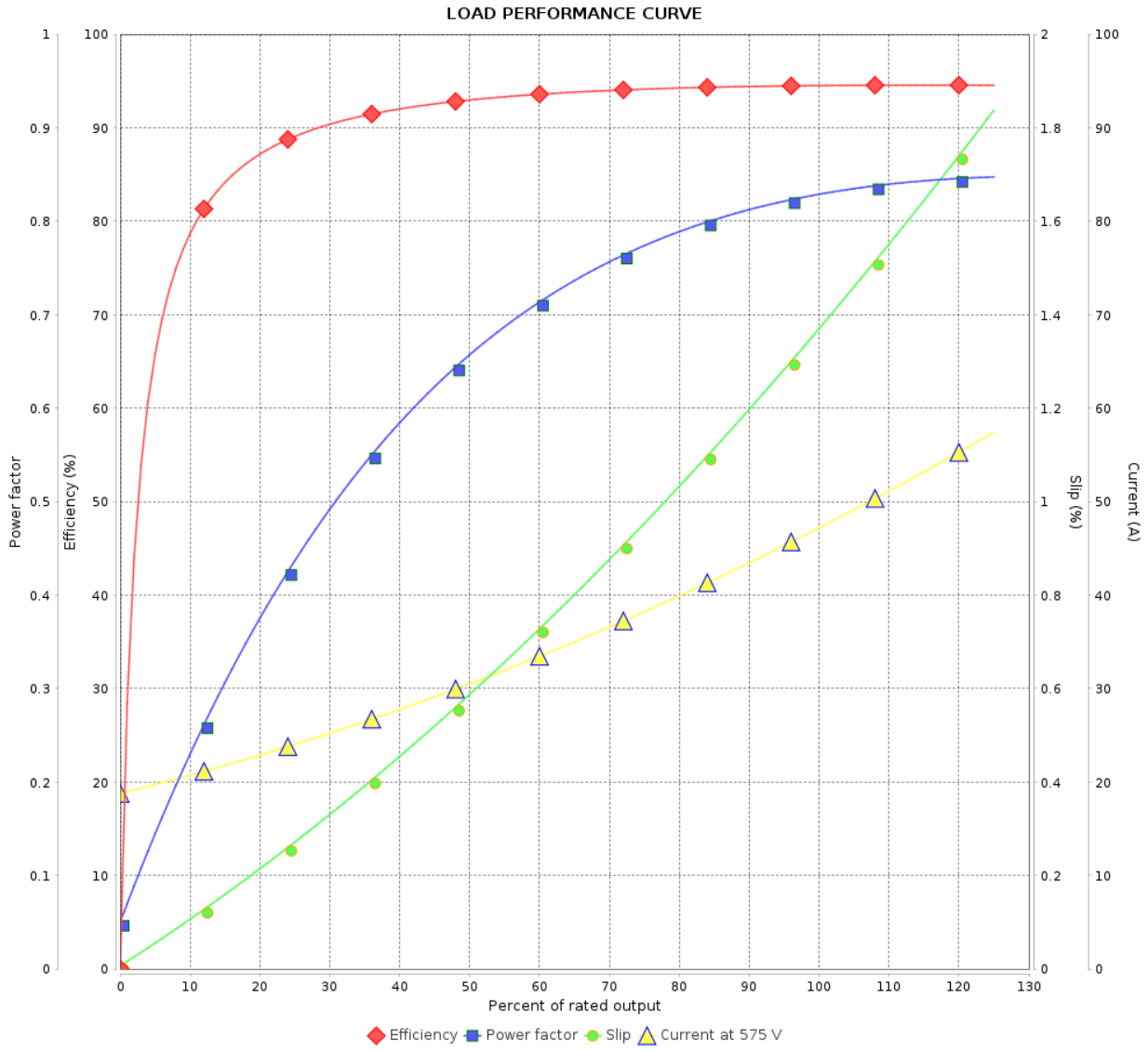
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 17274227



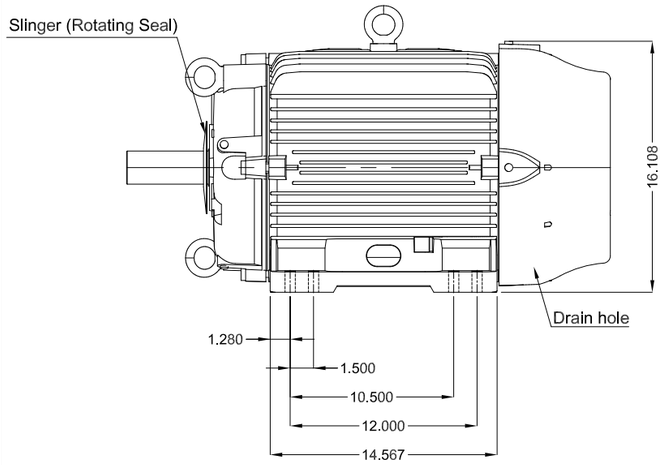
Performance	: 575 V 60 Hz 4P

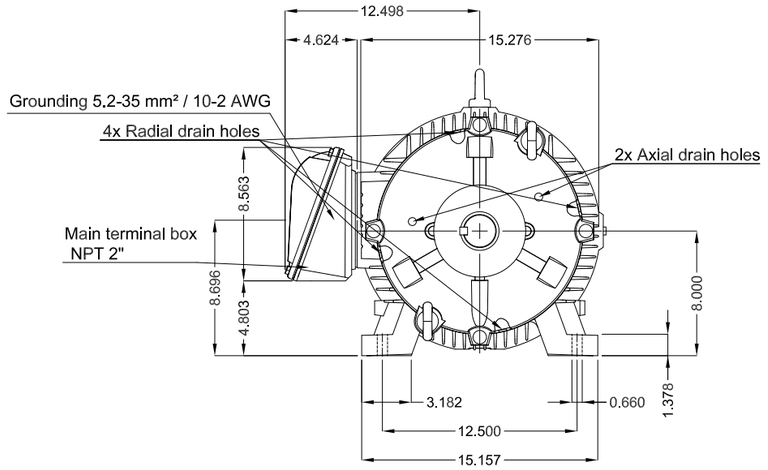
Rated current	: 47.4 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 20.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

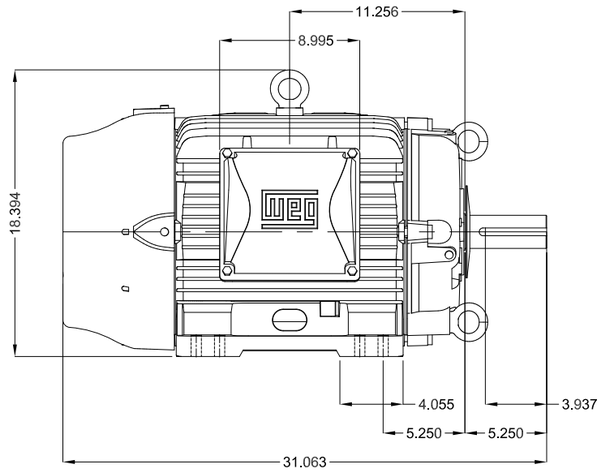
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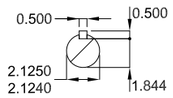
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DE Shaft End



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

50 HP 04 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR COOLING TOWER W22 NEMA PREM. EFF
FRAME 324/6T IP55 TEFC

PREVIEW
WDD | 00
SHEET /

Dimensions in inches
A3

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