DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	11939472

Frame	: 213/5T	Locked rotor time	: 79s (cold) 44s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 3.69 A	Protection degree	: IP55
L. R. Amperes	: 25.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code K)	Mounting	: F-1
No load current	: 2.40 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 870 rpm	Noise level[2]	: 52.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.50 kgfm	Approx. weight[3]	: 85.6 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0888 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	84.0	85.5	85.5
Power Factor	0.49	0.62	0.70

Foundation loads

Max. traction	: 96 kgf
Max. compression	: 181 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)
19.1	18.2	17.9	9.5	7.8	5.8	4.5

		Drive end	Non drive end
Bearing type	:	6308 C3	6207 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	11 g	7 g
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

Performed by				
Checked by			Page	Revision
Date	22/10/2024		1 / 2	

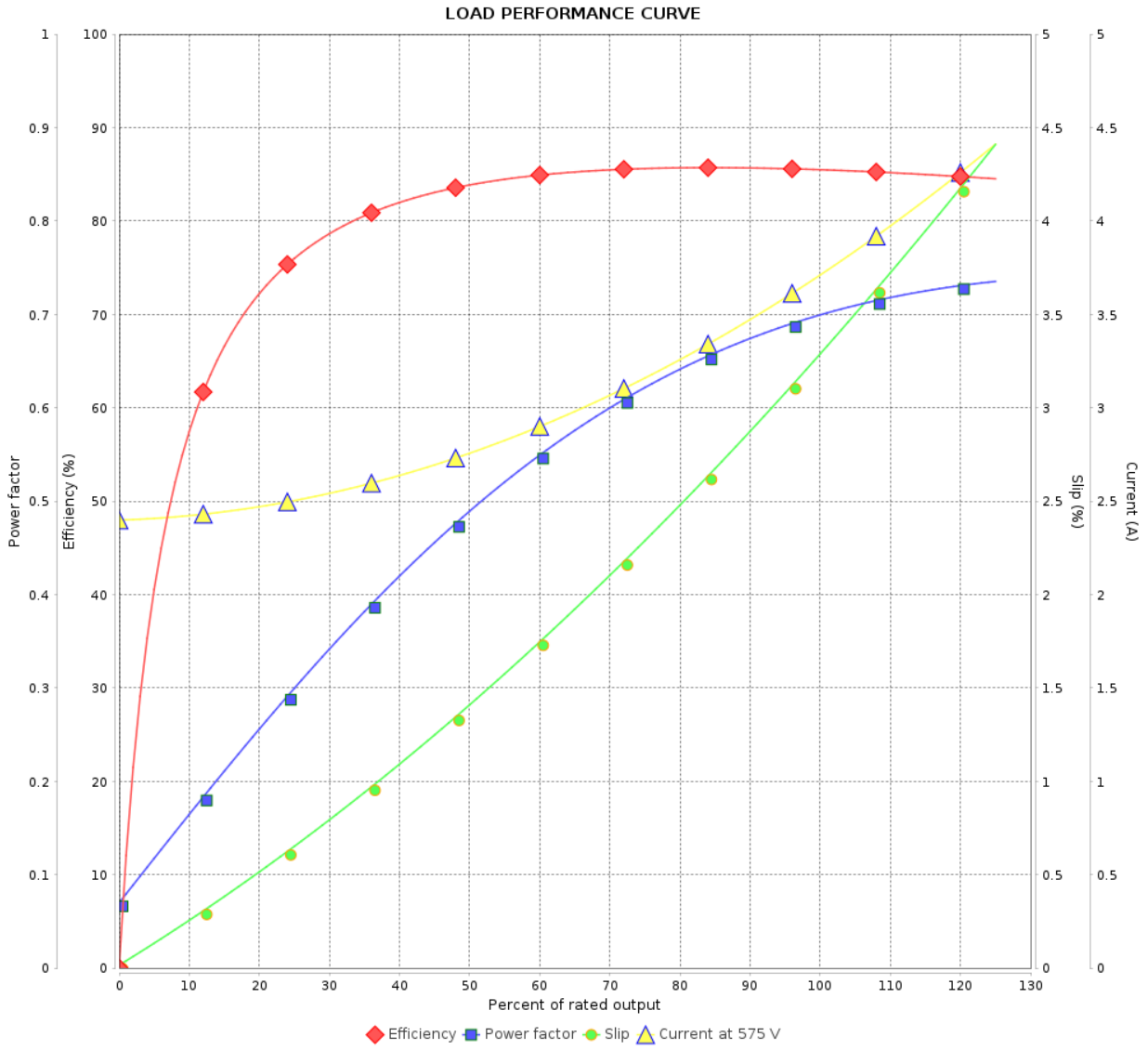
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LOAD PERFORMANCE CURVE

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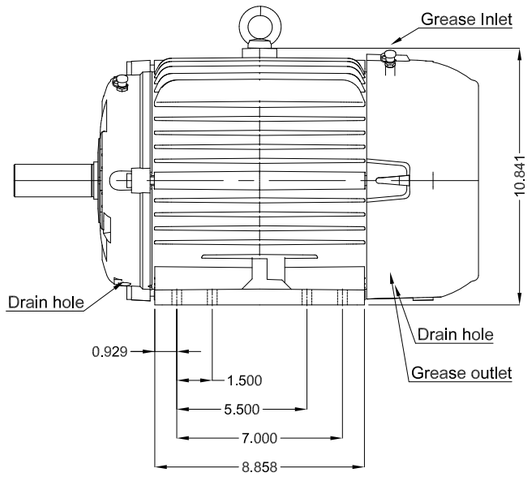
Performance	: 575 V 60 Hz 8P

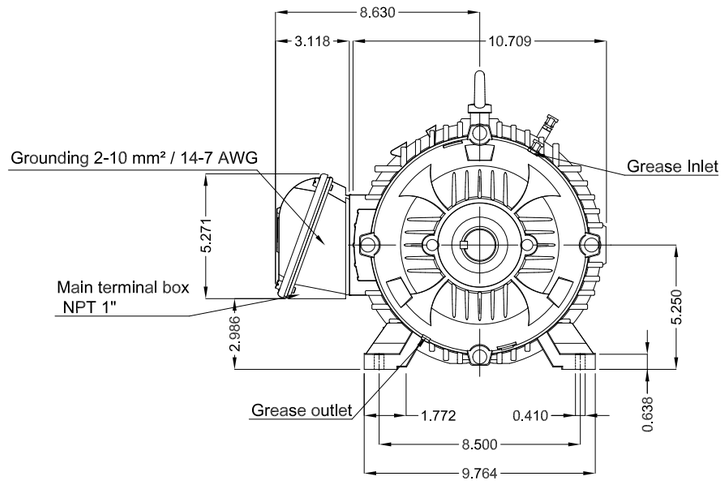
Rated current	: 3.69 A	Moment of inertia (J)	: 0.0888 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 2.50 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 870 rpm	Design	: B

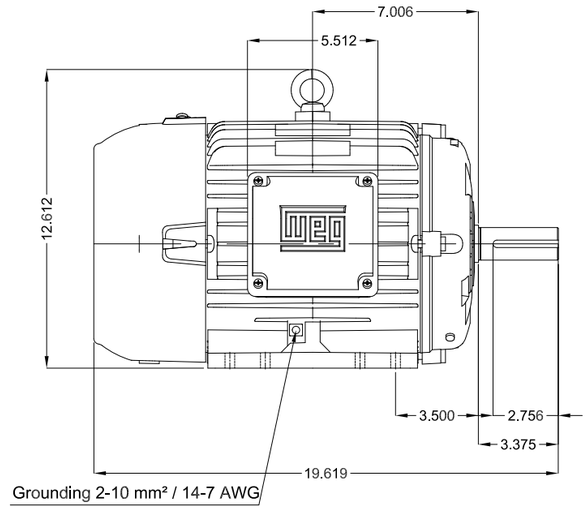
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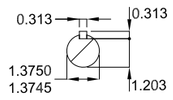






Sealing - Taconite labyrinth
Grease outlet according to IEEE841
Color RAL 5009
Painting plan 202E
Mounting B3R(D)

DE Shaft End



3 HP 08 Poles 60 Hz — A

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5T IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in inches

A3

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