DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W21 Explosion Proof NEMA Premium Efficiency Three-Phase	Product code :	15551823

Frame	: 254T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 15 HP (11 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	: 14.7 A	Protection degree	: IP56
L. R. Amperes	: 107 A	Cooling method	: IC411 - TEFC
LRC	: 7.3x(Code J)	Mounting	: F-3
No load current	: 6.88 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level[2]	: 69.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 6.15 kgfm	Approx. weight[3]	: 149 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0974 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	90.2	91.7	92.4
Power Factor	0.65	0.75	0.81

Foundation loads

Max. traction	: 215 kgf
Max. compression	: 365 kgf

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 ºC

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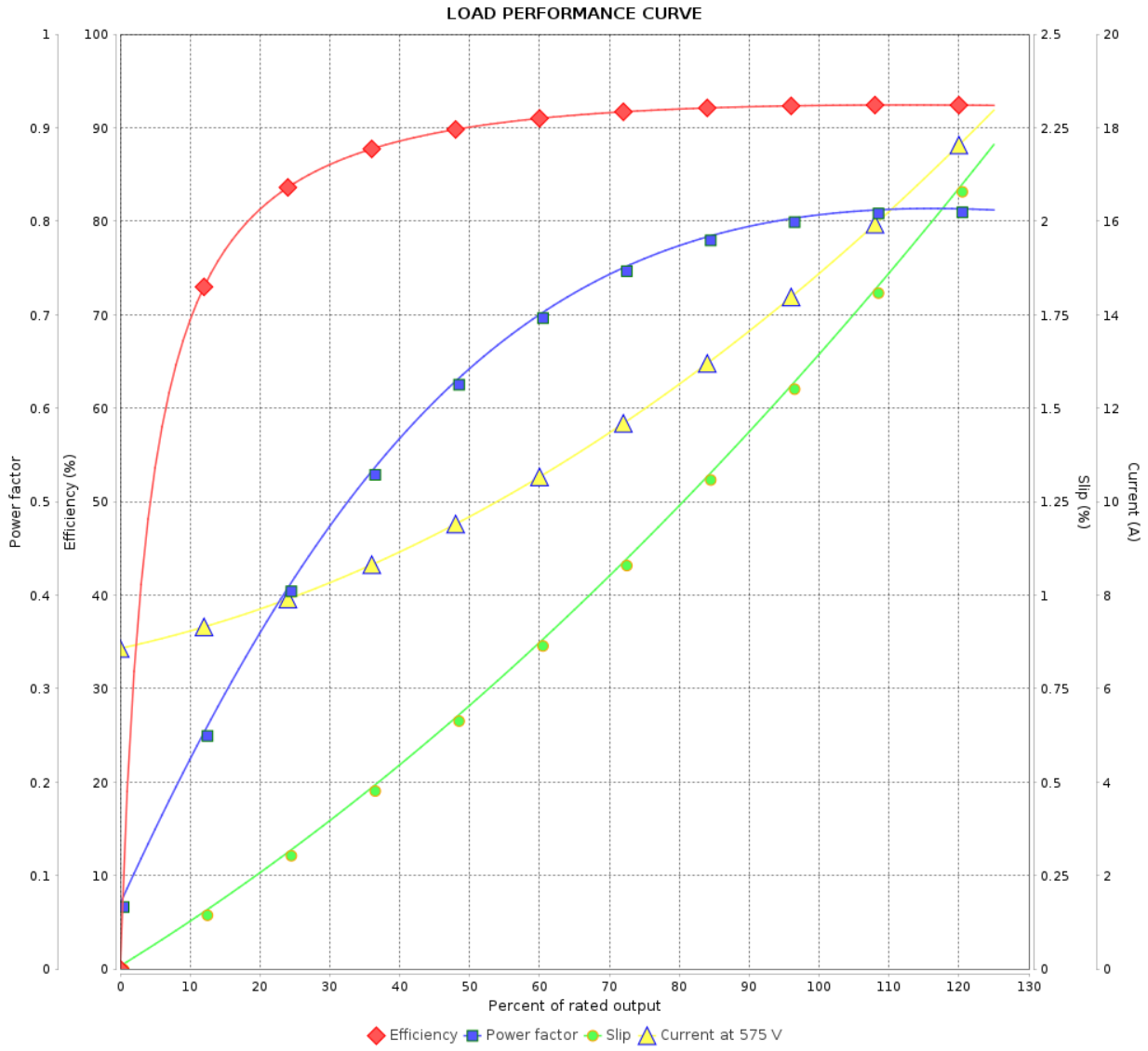
LOAD PERFORMANCE CURVE

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Product code : 15551823



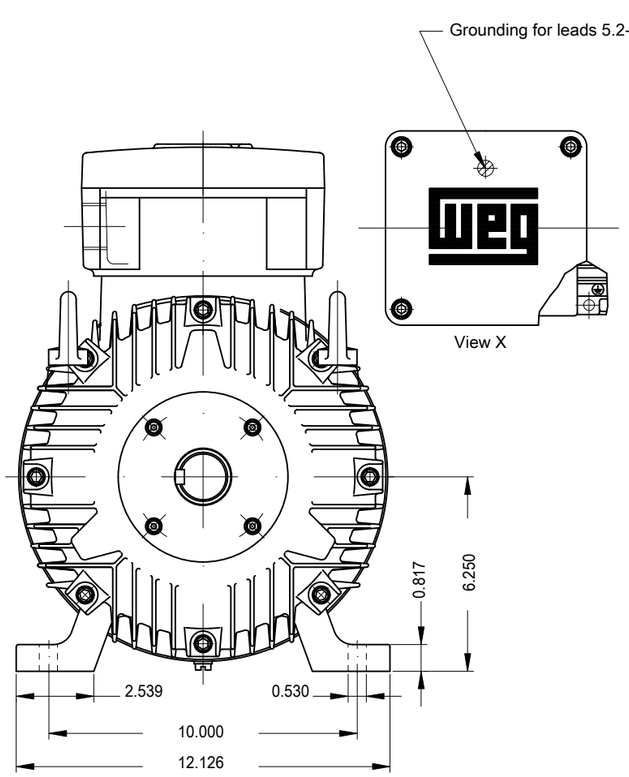
Performance	: 575 V 60 Hz 4P

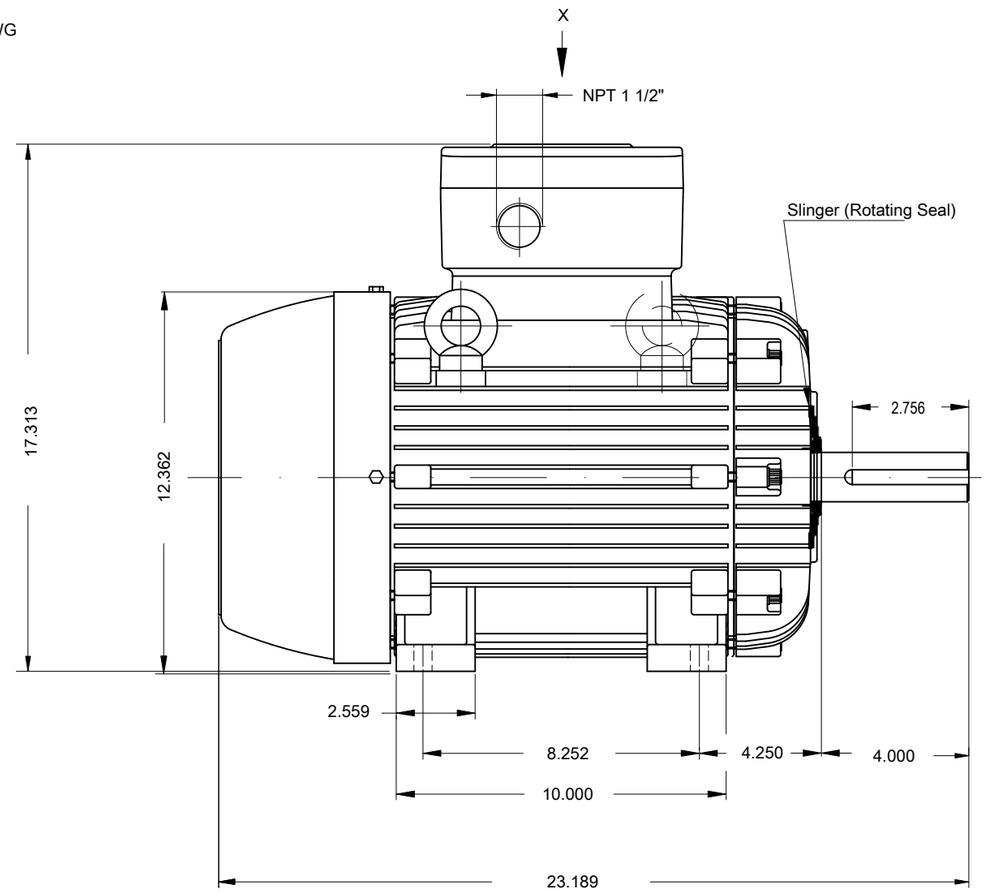
Rated current	: 14.7 A	Moment of inertia (J)	: 0.0974 kgm²
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

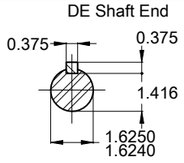
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Color RAL 5009
Painting plan 222P
Mounting NEMA F-3
Mounting B3T

15 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 EXPLOSION PROOF NEMA PREM. EFF.
FRAME 254T IP56 TEFC

WMO Jaragua do Sul Product Engineering

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in inches
XME A3

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