

DATA SHEET

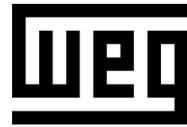


Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14893854		
Frame	: 286TSC	Locked rotor time	: 77s (cold) 43s (hot)			
Output	: 30 HP (22 kW)	Temperature rise	: 80 K			
Poles	: 2	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	: 27.0 A	Protection degree	: IP55			
L. R. Amperes	: 181 A	Cooling method	: IC411 - TEFC			
LRC	: 6.7x(Code G)	Mounting	: F-1			
No load current	: 6.00 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3545 rpm	Noise level ²	: 75.0 dB(A)			
Slip	: 1.53 %	Starting method	: Direct On Line			
Rated torque	: 6.14 kgfm	Approx. weight ³	: 232 kg			
Locked rotor torque	: 250 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1297 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	92.4	93.0	93.0	Max. traction : 93 kgf		
Power Factor	0.78	0.86	0.88	Max. compression : 328 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6311 C3		6211 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	11517 h		14226 h		
Lubricant amount	:	18 g		11 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 °C

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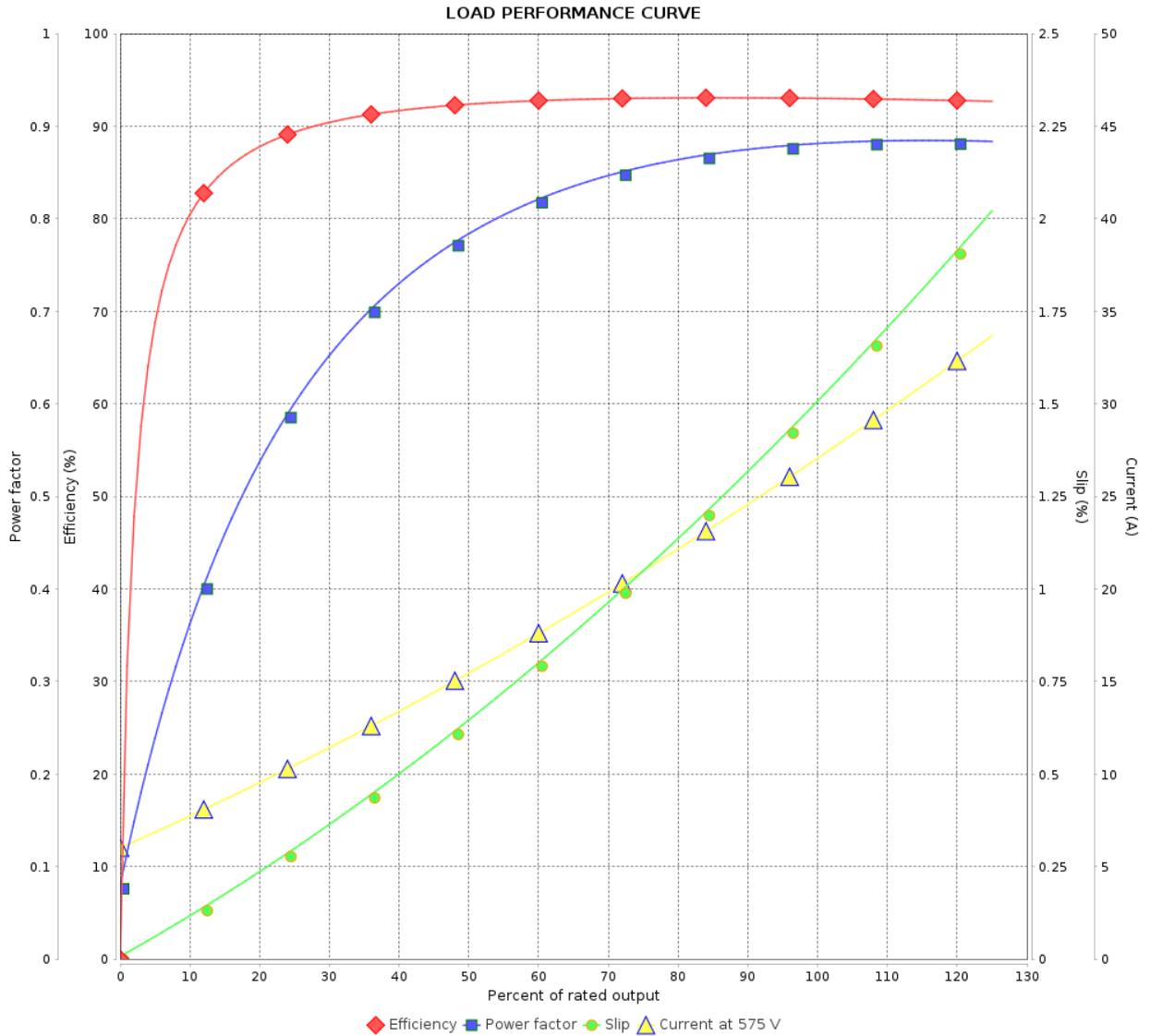
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 14893854

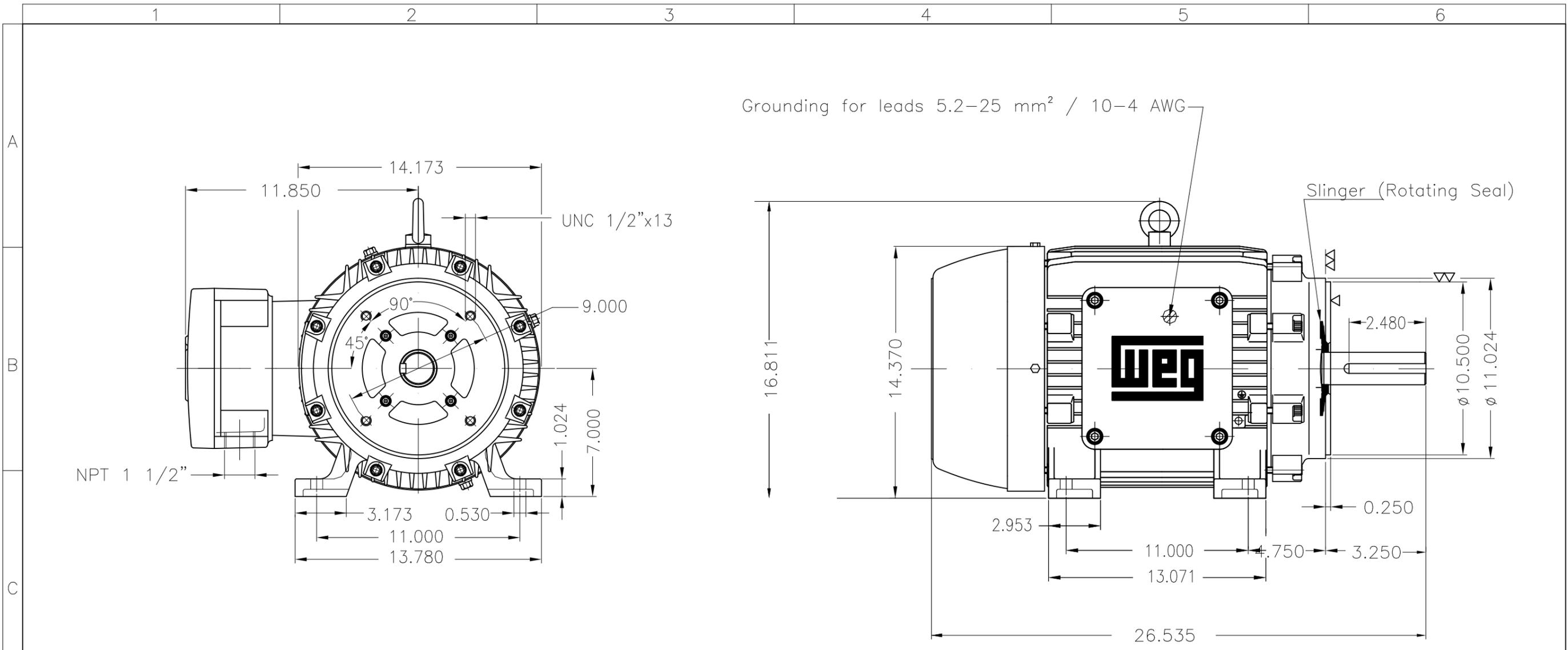


Performance : 575 V 60 Hz 2P

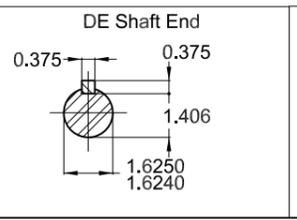
Rated current : 27.0 A
 LRC : 6.7
 Rated torque : 6.14 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 240 %
 Rated speed : 3545 rpm

Moment of inertia (J) : 0.1297 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date				



Color RAL 5009
 Painting plan 222P
 Mounting NEMA F-1
 Mounting B34R(D)



30 HP 02 Poles 60 Hz						A			
HYBRISUSER						00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.			EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME 286TSC IP55 TEFC			EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED					EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE		WMO	Jaragua do Sul	Product Engineering	EXECUTED	CHECKED	RELEASED	DATE	VER
					PREVIEW	WDD 00		SHEET 1 / 1	

