

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 11342406

Frame : 326T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 321 kg
Protection degree : IP55	Moment of inertia (J) : 0.5255 kgm ²
Design : B	

Output [HP]	30	30	30	30
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	73.4/36.7	43.7	42.2	40.9
L. R. Amperes [A]	521/261	249	266	274
LRC [A]	7.1x(Code G)	5.7x(Code F)	6.3x(Code G)	6.7x(Code H)
No load current [A]	34.0/17.0	17.3	18.6	19.7
Rated speed [RPM]	1180	975	975	980
Slip [%]	1.67	2.50	2.50	2.00
Rated torque [kgfm]	18.5	22.3	22.3	22.2
Locked rotor torque [%]	240	180	200	229
Breakdown torque [%]	270	210	229	250
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level ²	62.0 dB(A)	58.0 dB(A)	58.0 dB(A)	58.0 dB(A)
Efficiency (%)	25%			
	50%	92.4	92.4	91.7
	75%	93.0	92.4	92.4
	100%	93.0	91.7	92.4
Power Factor	25%			
	50%	0.63	0.70	0.63
	75%	0.75	0.80	0.75
	100%	0.81	0.84	0.81

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312	6212	Max. traction : 551 kgf
	2RS C3	2RS C3	
Sealing :	Oil Seal	Lip Seal	Max. compression : 847 kgf
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	Mobil Polyrex EM		

Notes
USABLE @208V 81.2A SF 1.15 SFA 93.3A

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.

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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

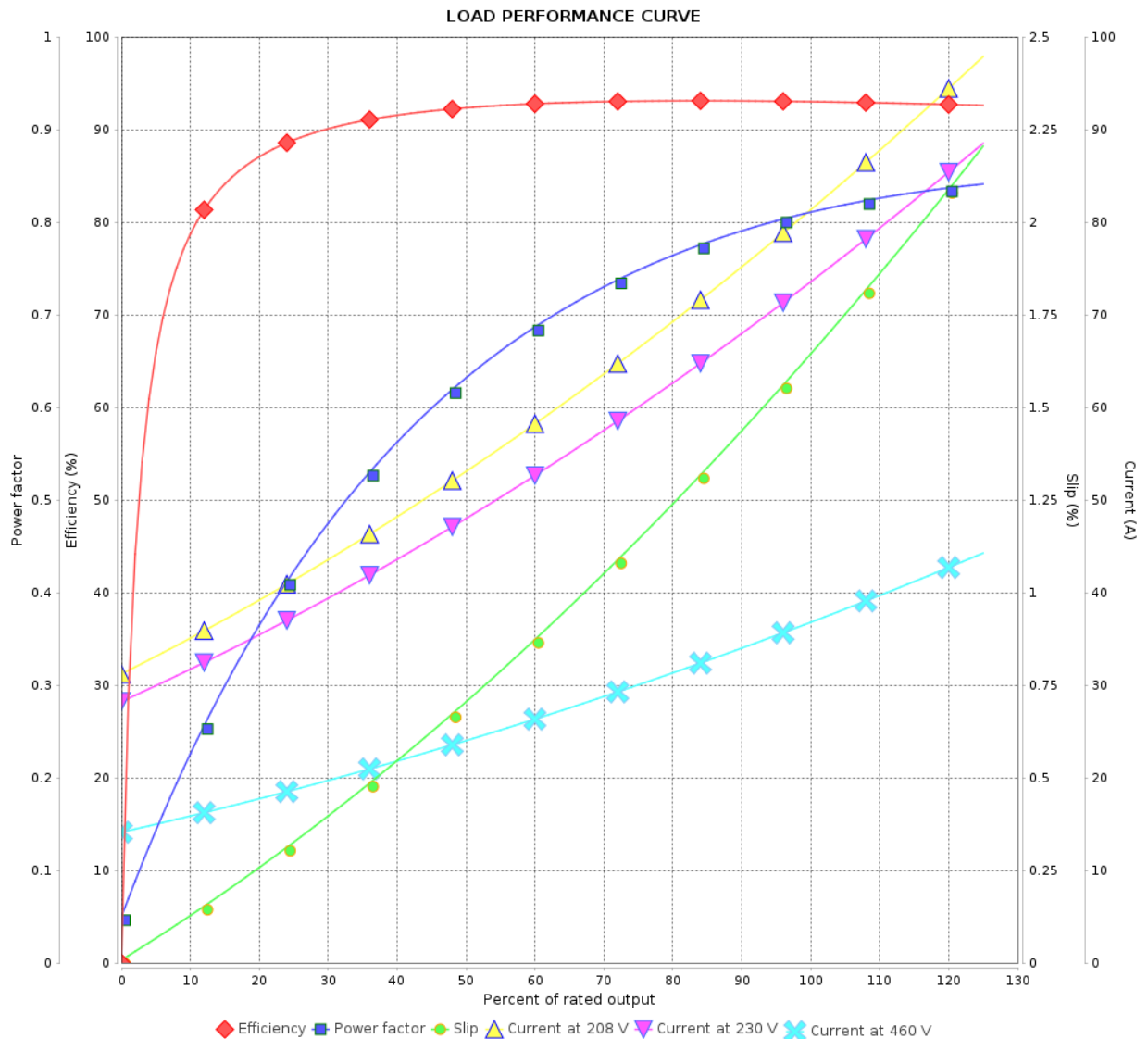
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11342406



Performance : 230/460 V 60 Hz 6P

Rated current : 73.4/36.7 A
LRC : 7.1
Rated torque : 18.5 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1180 rpm

Moment of inertia (J) : 0.5255 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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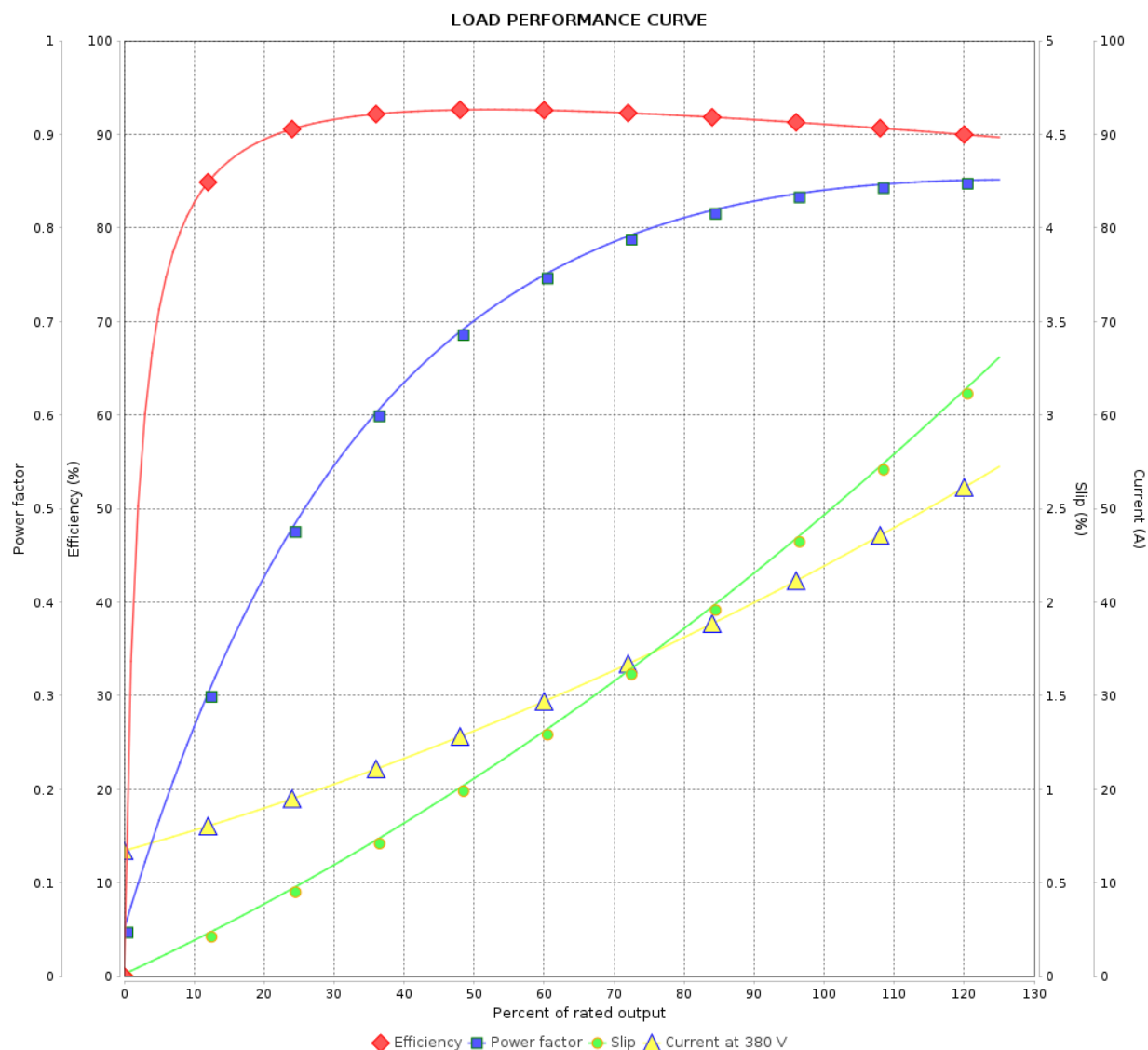
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11342406



Performance : 380 V 50 Hz 6P IE2

Rated current : 43.7 A
LRC : 5.7
Rated torque : 22.3 kgfm
Locked rotor torque : 180 %
Breakdown torque : 210 %
Rated speed : 975 rpm

Moment of inertia (J) : 0.5255 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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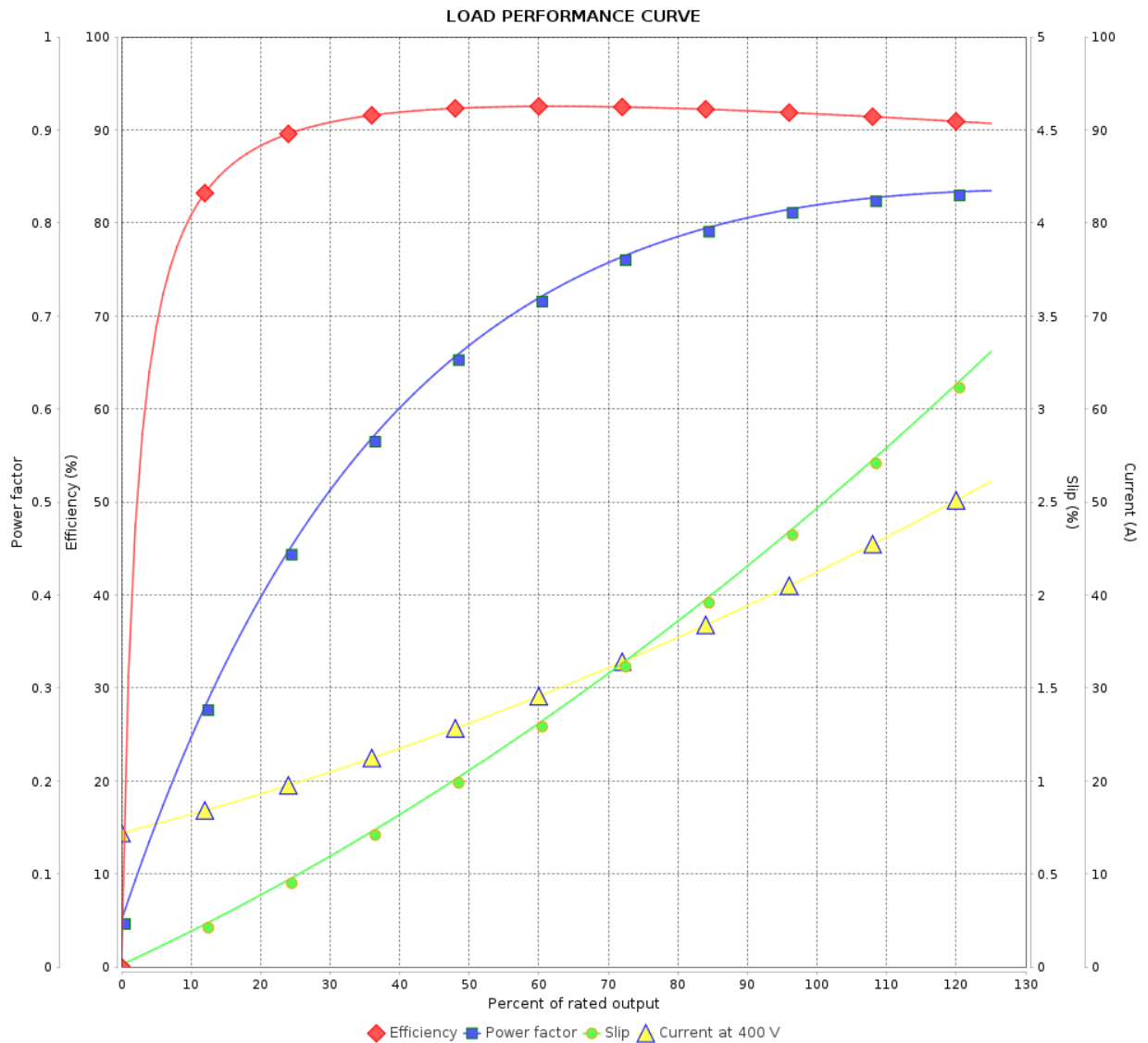
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11342406



Performance : 400 V 50 Hz 6P IE2

Rated current : 42.2 A
LRC : 6.3
Rated torque : 22.3 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 975 rpm

Moment of inertia (J) : 0.5255 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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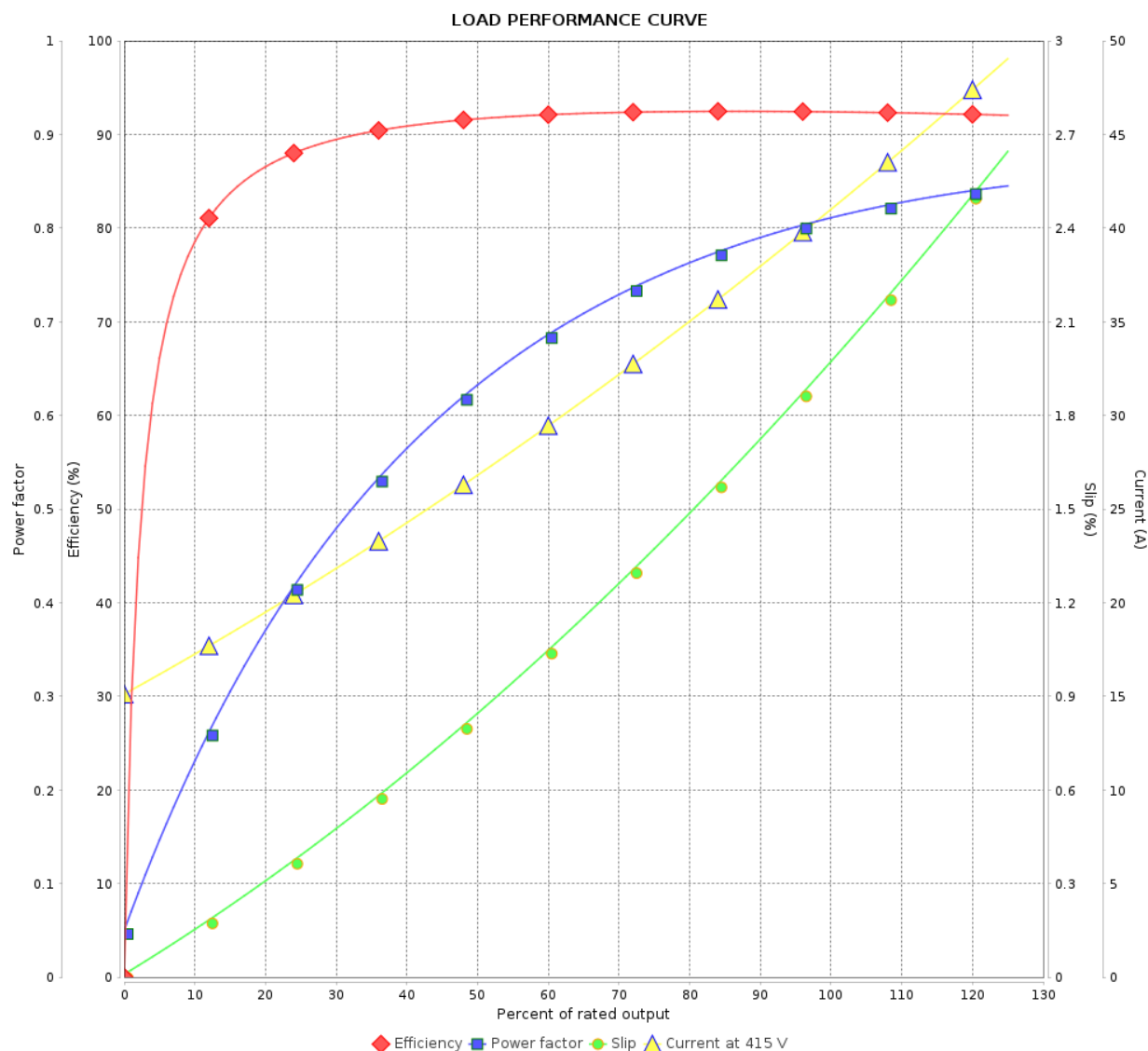
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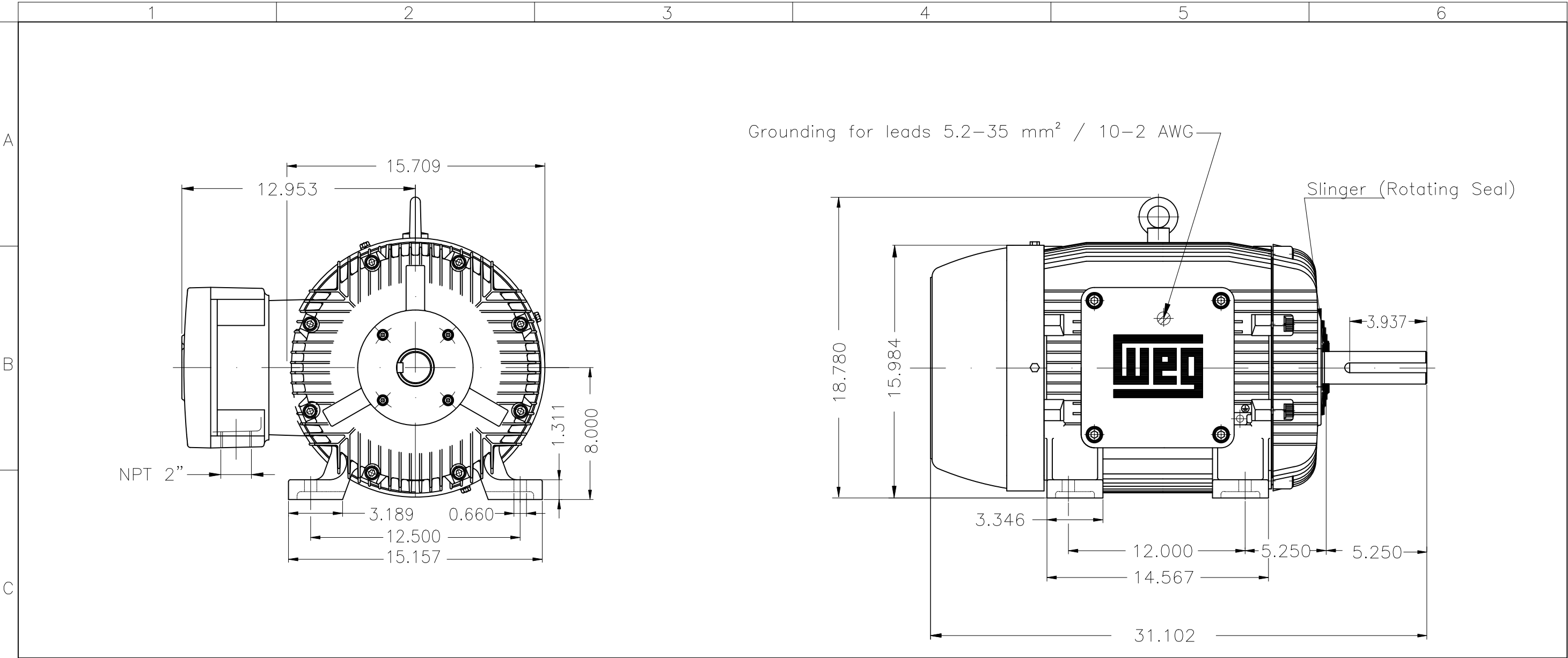


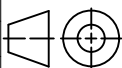

Performance : 415 V 50 Hz 6P IE3

Rated current : 40.9 A
LRC : 6.7
Rated torque : 22.2 kgfm
Locked rotor torque : 229 %
Breakdown torque : 250 %
Rated speed : 980 rpm

Moment of inertia (J) : 0.5255 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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D					30 HP 06 Poles 60 Hz										A			
												HYBRISUSER					00	
E					ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER		
					EXECUTED	HYBRISUSER		THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF. FRAME 326T IP55 TEFC					PREVIEW					
					CHECKED								WDD					00
					RELEASED													
					REL. DATE		WMO	Jaragua do Sul					Product Engineering	SHEET	1 / 1			

Color RAL 5009

Painting plan 202P

Mounting B3R(D)

DE Shaft End

