

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 12423616

Frame	: 504/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 199 A	Protection degree	: IP55
L. R. Amperes	: 1554 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code J)	Mounting	: F-1
No load current	: 100 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1190 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 122 kgfm	Approx. weight ³	: 1218 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 5.63 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.4	95.8	Max. traction	: 2080 kgf
Power Factor	0.60	0.73	0.79	Max. compression	: 3297 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Seal
Lubrication interval	:	11094 h	12823 h
Lubricant amount	:	45 g	34 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

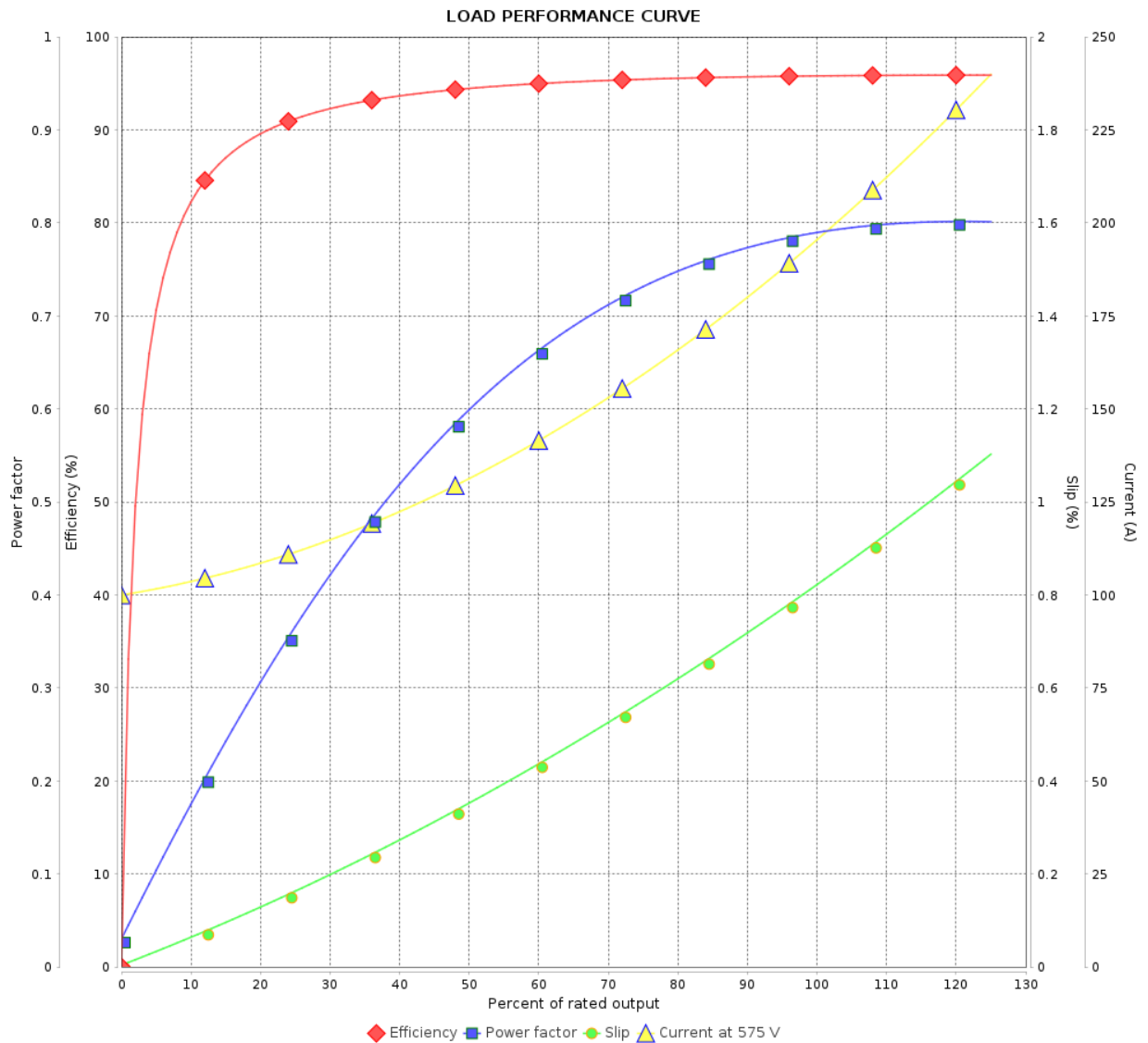
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12423616

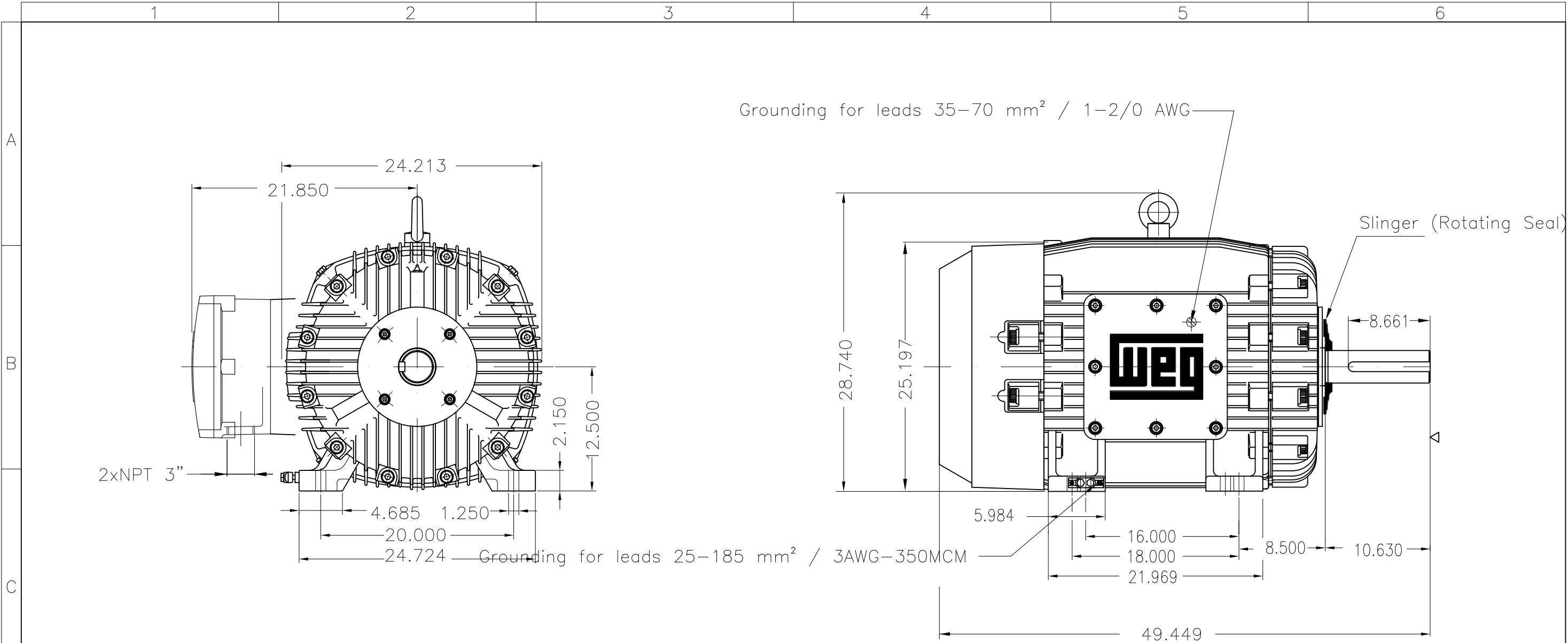


Performance : 575 V 60 Hz 6P

Rated current : 199 A
LRC : 7.8
Rated torque : 122 kgfm
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1190 rpm

Moment of inertia (J) : 5.63 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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D															A
E	<div><div>DE Shaft End</div></div>													00	
				ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
				EXECUTED	HYBRISUSER		THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF. FRAME 504/5T IP55 TEFC				PREVIEW				
				CHECKED							WDD	00			
				RELEASED											
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1									