

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14212919

Frame	: 80L/MS	Locked rotor time	: 9s (cold) 5s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 21.6-19.5/9.76 A	Protection degree	: IP54
L. R. Amperes	: 199-180/89.8 A	Cooling method	: IC411 - TEFC
LRC	: 9.2	Mounting	: B3R(D)
No load current	: 9.73-8.80/4.40 A	Rotation ¹	: CCW
Rated speed	: 3490 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.56 kgfm	Approx. weight ³	: 55.5 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 459 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0061 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.2	87.0	87.4	Max. traction	: 123 kgf
Power Factor	0.64	0.75	0.81	Max. compression	: 178 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 ZZ	6207 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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		Page Revision 1 / 2		
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Date	27/10/2024			

LOAD PERFORMANCE CURVE

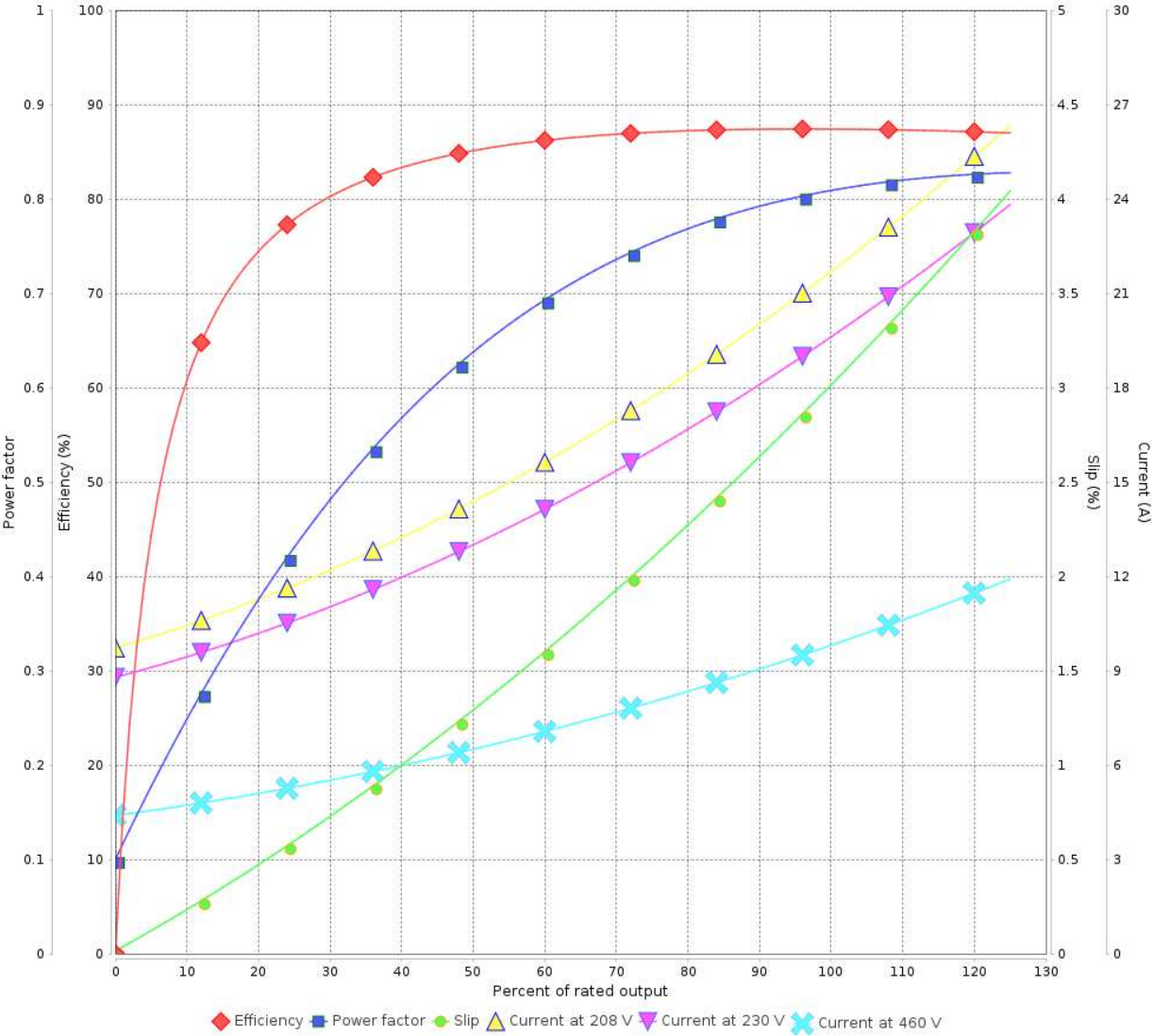
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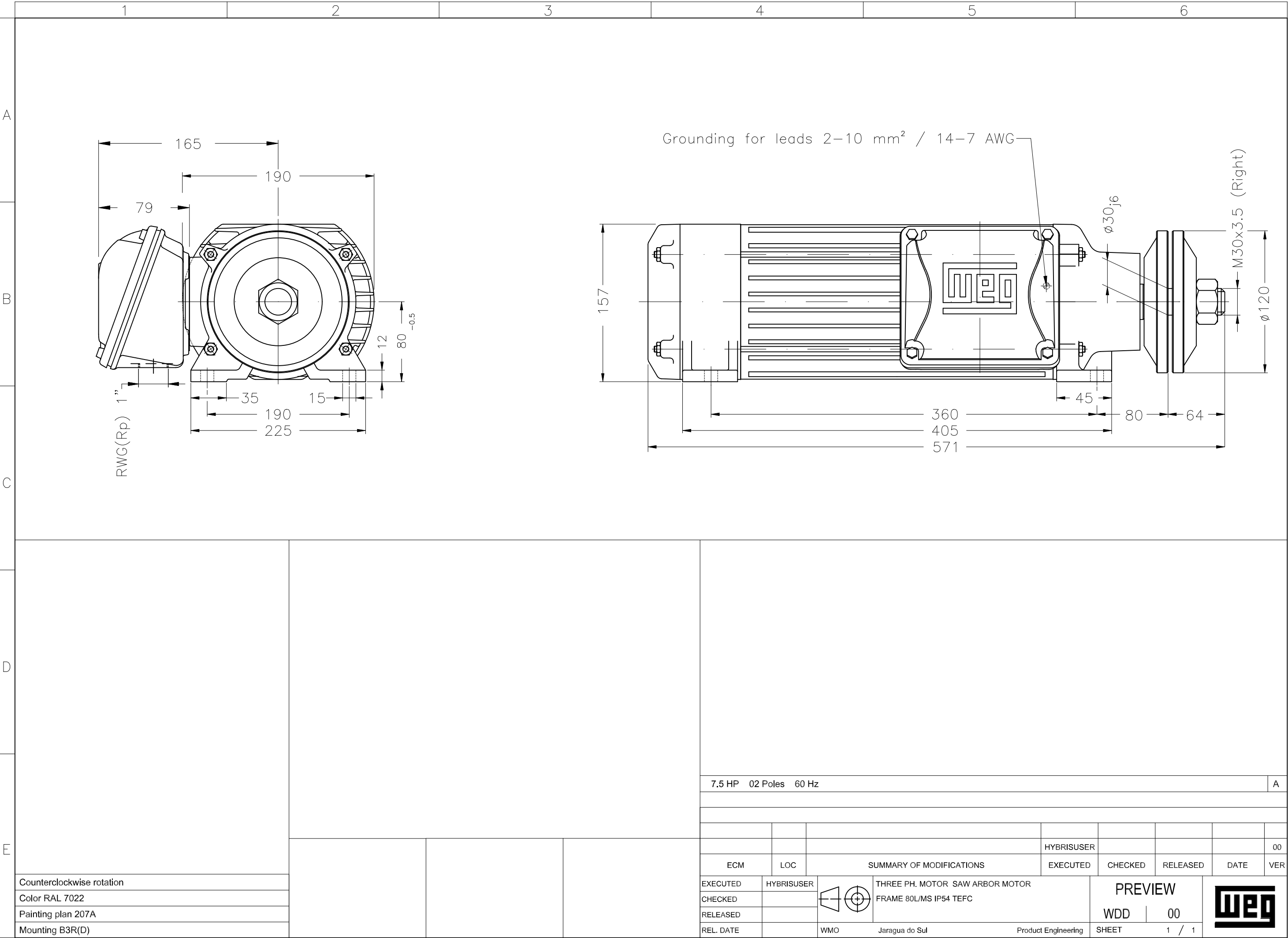
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LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P			
Rated current	: 21.6-19.5/9.76 A	Moment of inertia (J)	: 0.0061 kgm²
LRC	: 9.2	Duty cycle	: S6
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.15
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: N

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