

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14212886

Frame	: 80M/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 5 HP (3.7 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	: 14.7-13.3/6.65 A	Protection degree	: IP54
L. R. Amperes	: 118-106/53.2 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3R(D)
No load current	: 6.35-5.74/2.87 A	Rotation ¹	: CW
Rated speed	: 3470 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 3.61 %	Starting method	: Direct On Line
Rated torque	: 1.05 kgfm	Approx. weight ³	: 45.9 kg
Locked rotor torque	: 340 %		
Breakdown torque	: 409 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0041 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.5	85.0	Max. traction	: 67 kgf
Power Factor	0.66	0.77	0.82	Max. compression	: 113 kgf

	Drive end	Non drive end
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		
Checked by				
Date	28/10/2024			

LOAD PERFORMANCE CURVE

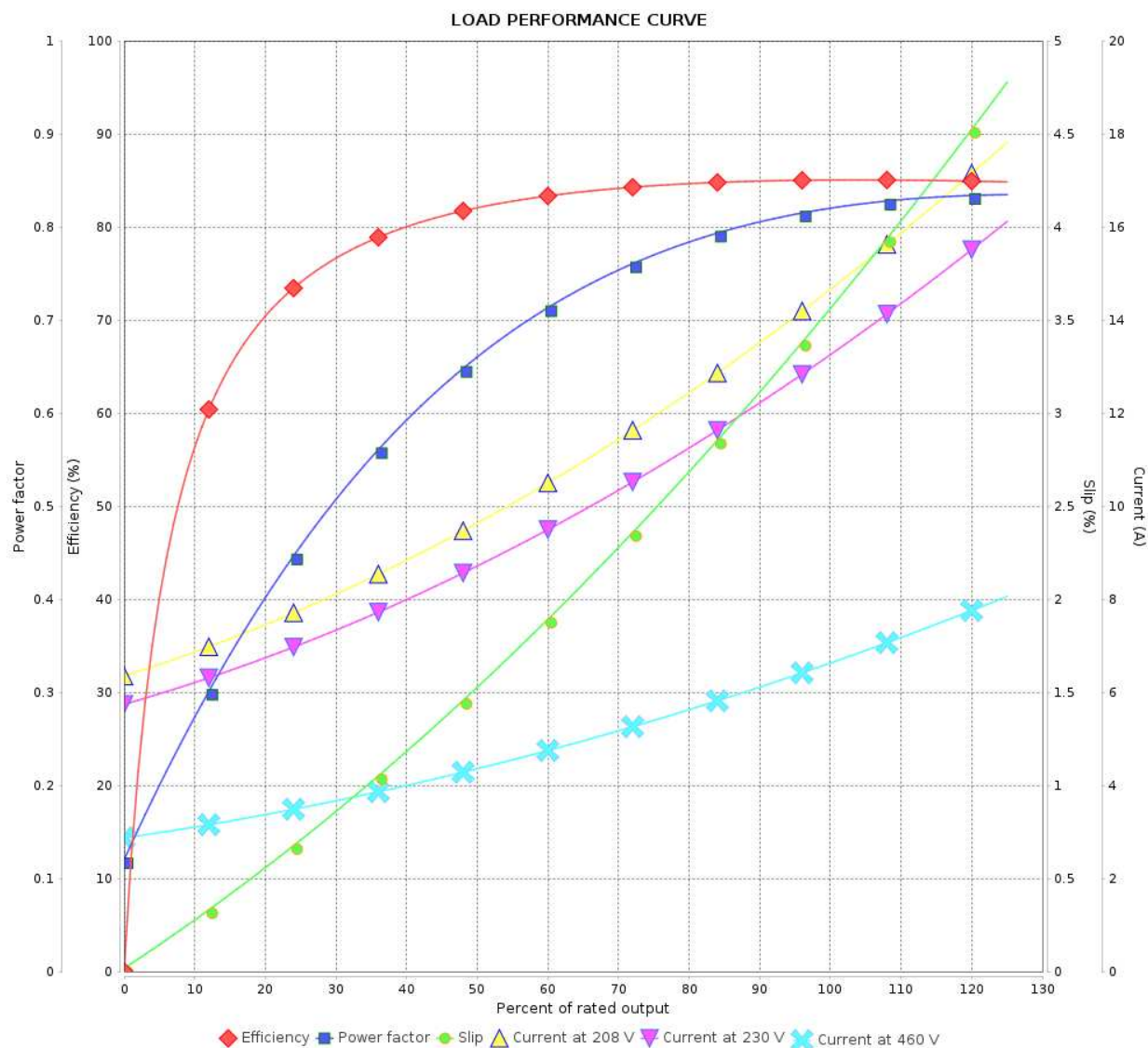
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Efficiency Three-Phase

Product code : 14212886

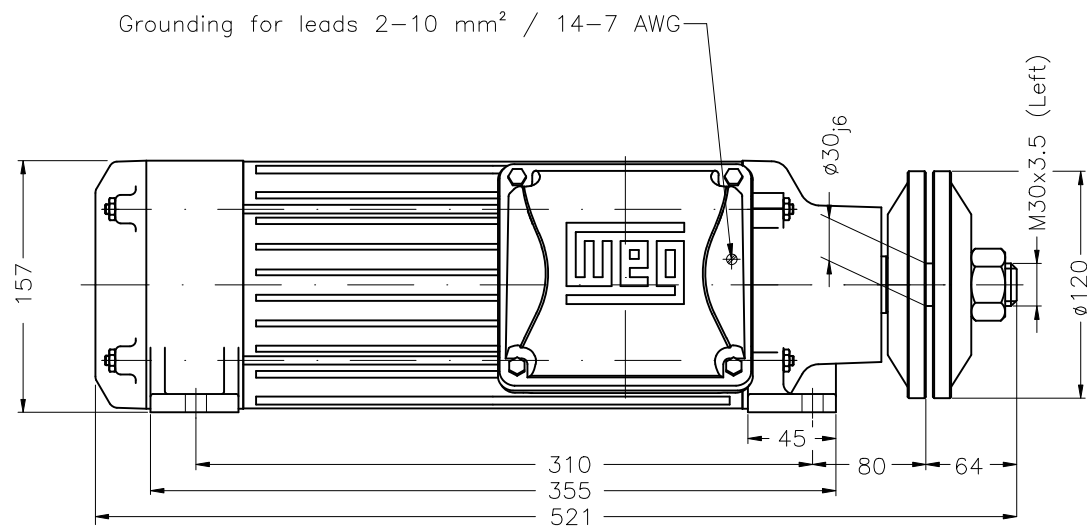


Performance : 208-230/460 V 60 Hz 2P

Rated current : 14.7-13.3/6.65 A
LRC : 8.0
Rated torque : 1.05 kgfm
Locked rotor torque : 340 %
Breakdown torque : 409 %
Rated speed : 3470 rpm

Moment of inertia (J) : 0.0041 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date					



5 HP 02 Poles 60 Hz										A
					HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER		THREE PH. MOTOR SAW ARBOR MOTOR FRAME 80M/MS IP54 TEFC			PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				

Dimensions in mm

XME A3

	Color RAL 7022
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Painting plan 207A

Mounting B3R(D)

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