

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10793852

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 27.2-24.6/12.3 A	Protection degree	: IP54
L. R. Amperes	: 236-214/107 A	Cooling method	: IC411 - TEFC
LRC	: 8.7	Mounting	: B3R(D)
No load current	: 9.94-8.99/4.50 A	Rotation ¹	: CCW
Rated speed	: 3480 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight ³	: 76.1 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.5	85.0	Max. traction	: 180 kgf
Power Factor	0.77	0.86	0.90	Max. compression	: 257 kgf

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 6208 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
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Date	26/10/2024			

LOAD PERFORMANCE CURVE

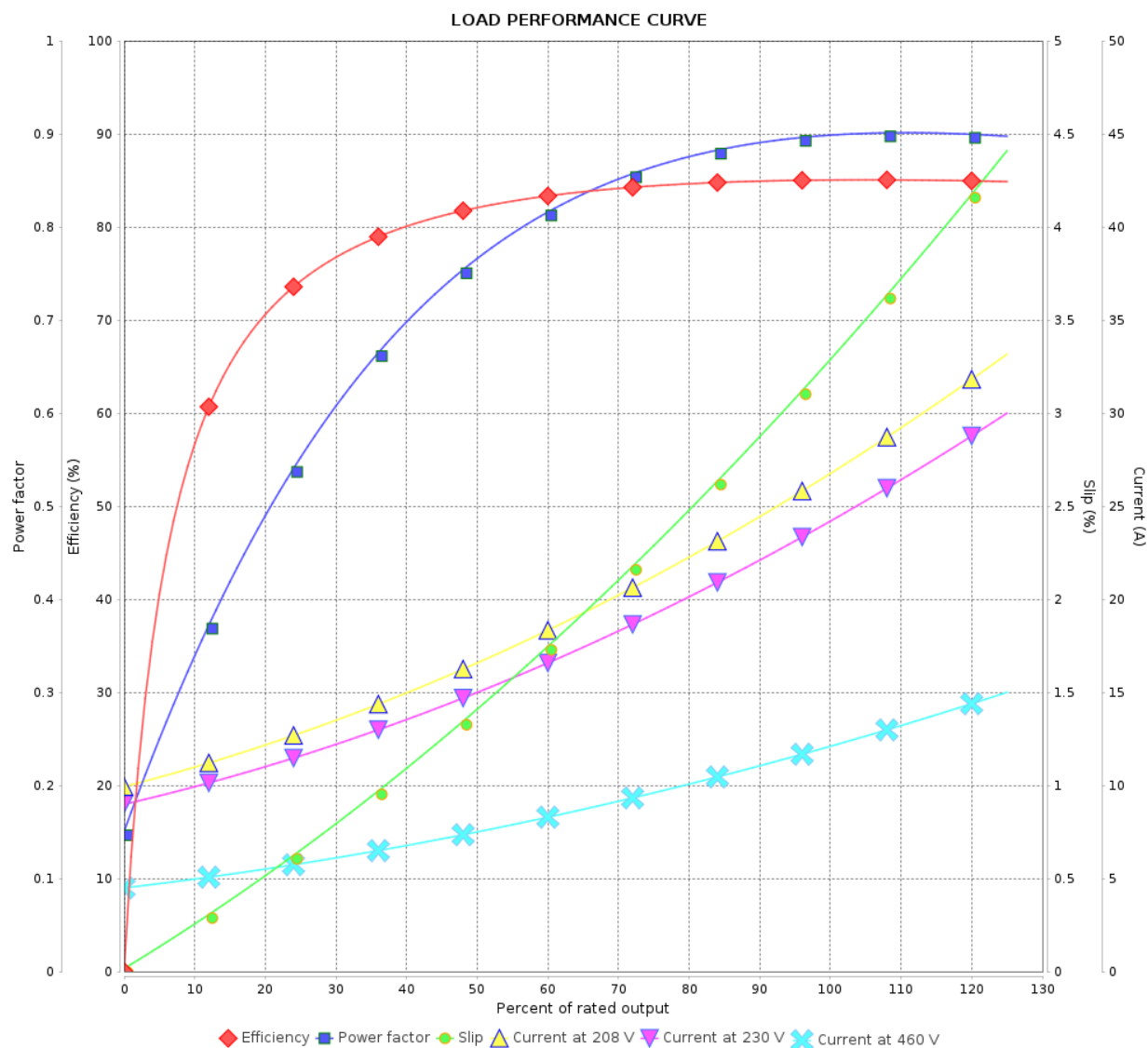
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 10793852



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

Rated current : 27.2-24.6/12.3 A
LRC : 8.7
Rated torque : 2.09 kgfm
Locked rotor torque : 400 %
Breakdown torque : 420 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0140 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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WEG Motores

EIXO

PADRÃO

X

OPCIONAL

ESPECIAL

Dimensões em mm

Dimensions in mm

2

179

208

79

12

90

63

160

197

15

-0.5

140

133

1

RWG(Rp)

Grounding for leads 2–10 mm² / 14–7 AWG

177

510

543

672

62

80

64

ø30_{j6}

M30x3.5 (Direita/Right)

ø160

3

4

5

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE
MUST BE DISREGARDED.

6

A

B

C

D

E

7.5 HP 4 POLE 60 Hz

10 HP 2 POLE 60 Hz

B

A

Executed

Checked

Released

Rel DT

ADRIANAP

RUDMAR

21.09.2008

WMO

JARAGUA DO SUL

ENGENHARIA DE PRODUTO

THREE PHASE SAW ARBOR MOTOR
FRAME 90L/MS IP54

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03

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