

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase Product code : 13985856

Frame	: 213/5T	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 105 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 31.0/17.3-15.5 A	Protection degree	: IP55
L. R. Amperes	: 164/91.7-82.1 A	Cooling method	: IC411 - TEFC
LRC	: 5.3x(Code G)	Mounting	: F-1
No load current	: 13.2/6.50-6.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1160 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight ³	: 66.0 kg
Rated torque	: 1.88 kgfm		
Locked rotor torque	: 155 %		
Breakdown torque	: 160 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0541 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	60.7	68.8	70.6	Max. traction	: 22 kgf
Power Factor	0.00	0.81	0.88	0.90	Max. compression	: 88 kgf

	Drive end	Non drive end
Bearing type	: 6308 ZZ	6206 ZZ
Sealing	: V'Ring	V'Ring
Lubrication interval	: 0 h	0 h
Lubricant amount	: 0 g	0 g
Lubricant type	: Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

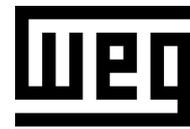
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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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LOAD PERFORMANCE CURVE

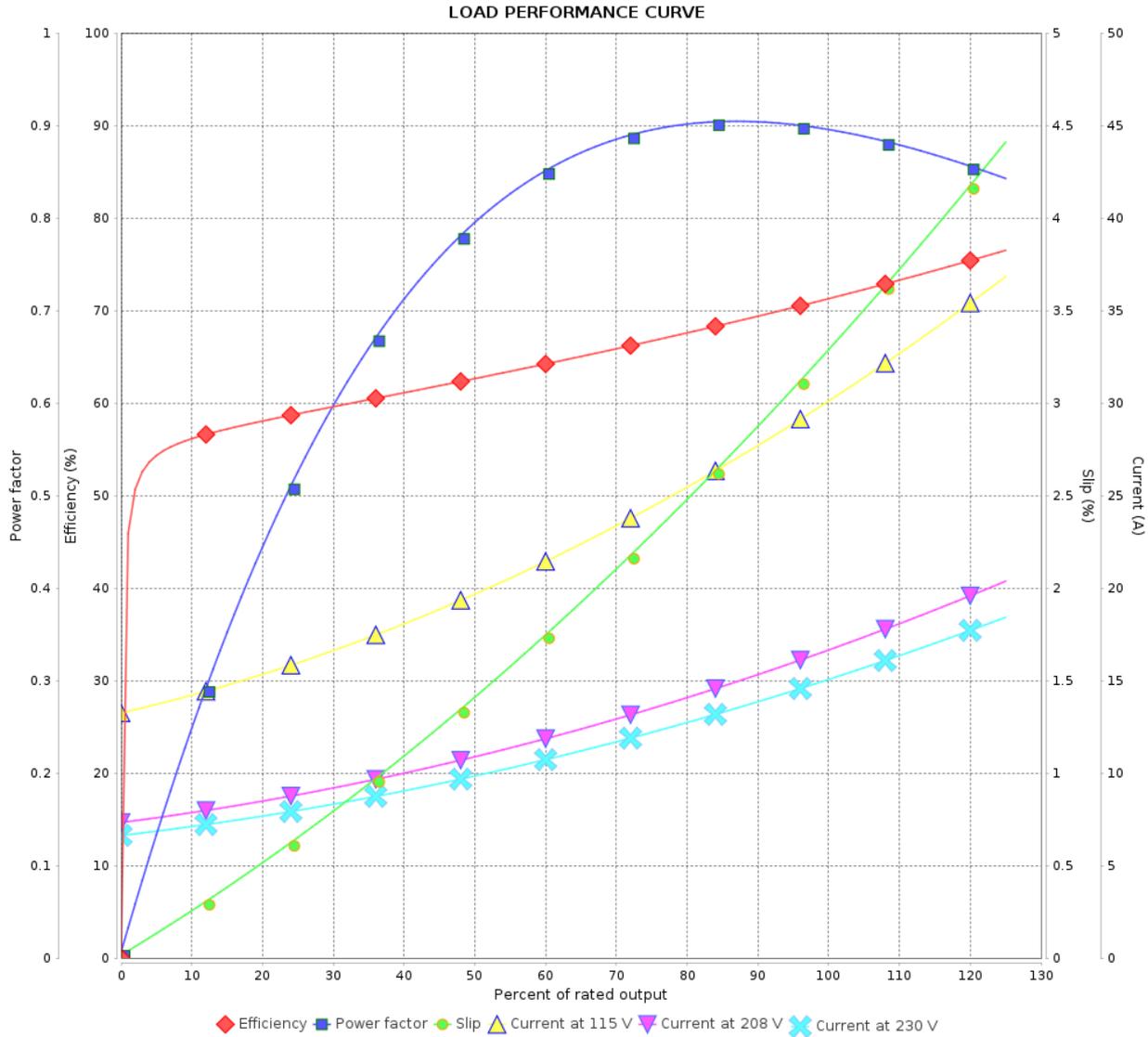
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 13985856



Performance : 115/208-230 V 60 Hz 6P

Rated current : 31.0/17.3-15.5 A
 LRC : 5.3
 Rated torque : 1.88 kgfm
 Locked rotor torque : 155 %
 Breakdown torque : 160 %
 Rated speed : 1160 rpm

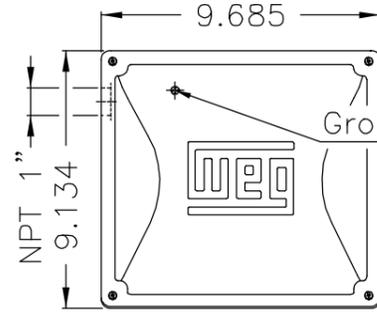
Moment of inertia (J) : 0.0541 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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Date	27/10/2024			

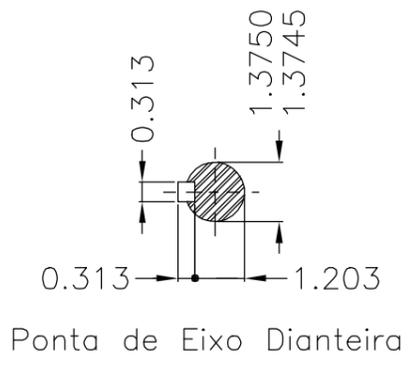
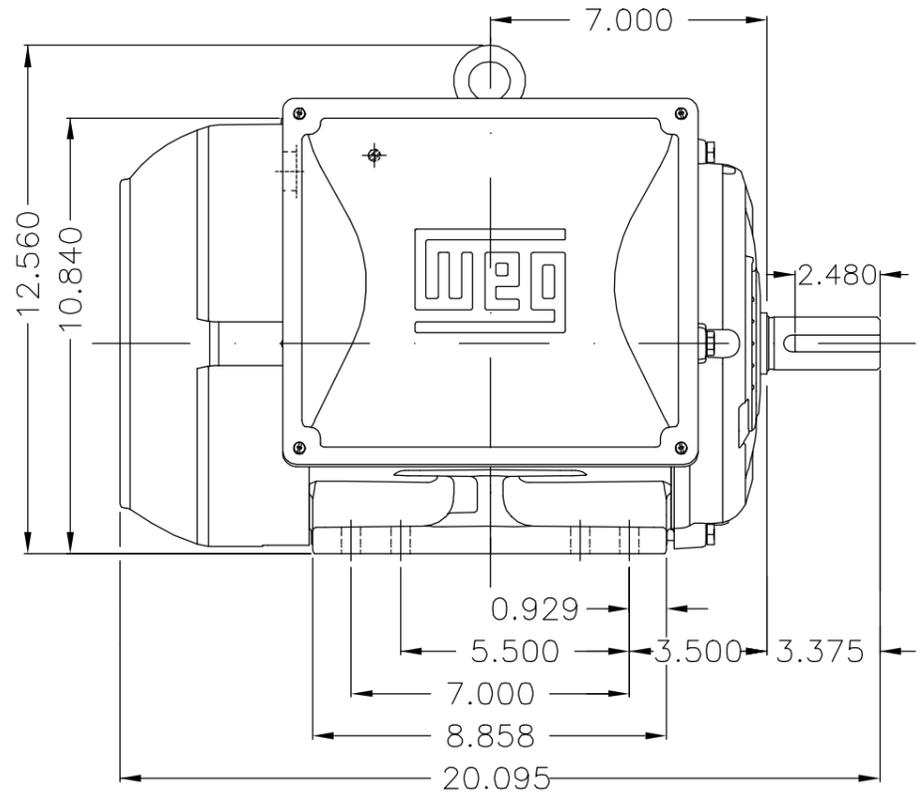
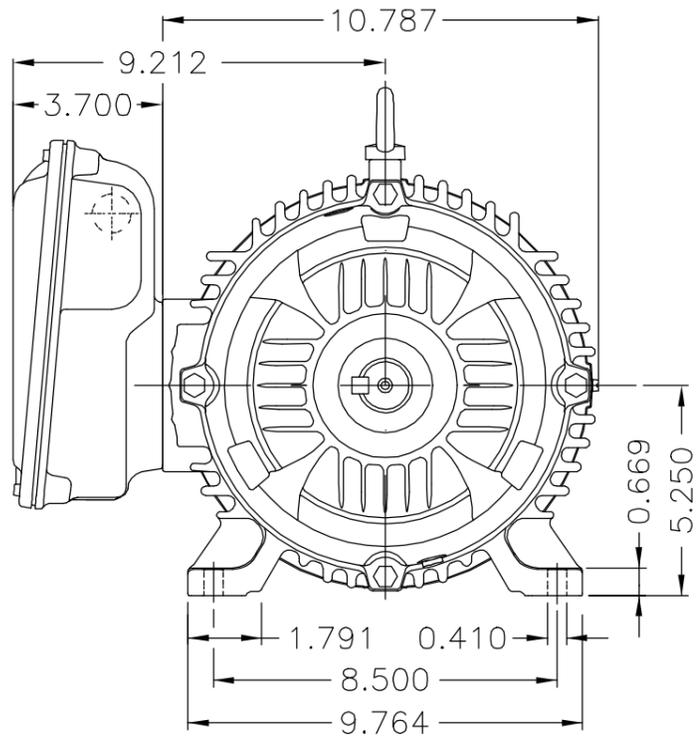
EIXO/SHAFT	
PADRÃO/STANDARD	X
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	

Dimensões em mm

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



Main terminal box



Forma construtiva B3D / Mounting B3R(D)						
WEG EQUIP.ELETS.S.A						
500001303463	DOCUMENTO NOVO	AKLOSOWSKI	EMERSONRH	25.04.2017	00	
ECM ECM	LOC LOC	RESUMO MODIFICAÇÃO SUMMARY OF MODIFICATIONS	EXECUTADO EXECUTED	VERIFICADO CHECKED	LIBERADO RELEASED	DATA DATE
EXEC. /EXECUTED	AKLOSOWSKI	SINGLE PHASE MOTOR W22 NEMA FRAME 213/5T IP55 TEFC	10004899110			
VERIF. /CHECKED			000	00		
LIBER. /RELEASED	EMERSONRH					
DATA LB /REL DT	25.04.2017	WMO Jaraguá do Sul	Product Engineering	FOLHA/SHEET	1 / 1	

3 HP 06 Poles 60Hz 414643216

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