

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12678202
Catalog # :

Frame	: 182/4TCZ	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.2/7.11 A	Protection degree	: IP55
L. R. Amperes	: 135/67.5 A	Cooling method	: IC410 - TENV
LRC	: 9.5x(Code M)	Mounting	: F-1
No load current	: 8.60/4.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Starting method	: VFD
Slip	: 1.94 %	Approx. weight ³	: 110 lb
Rated torque	: 14.9 ft.lb		
Locked rotor torque	: 290 %		
Breakdown torque	: 450 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.4627 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	87.5	89.5	89.5	Max. traction	: 373 lb
Power Factor	0.00	0.51	0.64	0.73	Max. compression	: 483 lb

		Drive end	Non drive end
Bearing type	:	6207 ZZ C3	6207 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
Performed by		Page 1 / 2 Revision		
Checked by				
Date	06/03/2025			

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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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Date	06/03/2025			2 / 2	

1

2

3

4

5

6

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EIXO	
PADRÃO	
OPCIONAL	
ESPECIAL	X

Dimensões em polegadas

Dimensions in inches

PRELIMINARY DOCUMENT

Not to be used for installation purposes.

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

A

B

C

D

E

UNC 3/8"-16

ø5.875

90°

45°

NON DRIVE END

0.188

0.517

ø0.625

A4

1.772

9.343

ø6.496

ø4.500

0.156

1.750

4.500

5.500

6.969

13.766

16.569

1.969

ø8.500

ø8.875

2.625

0.250

2.750

8.740

7.559

UNC 1/2"-13

90°

45°

ø7.250

DRIVE END

0.394

4.500

1.594

0.406

7.500

8.661

NPT 1"

0.250

0.250

0.984

ø1.125

A4

Placa Tag 01 / Tag Plate

Termostato 155°C – Desconexión / Thermostats 155°C to trip							
Sin deflectora / Without fan cover							
Rodamiento esferas delantero ZZ-C3 / ZZ-C3 DE ball bearing							
Balanceo normal sin chaveta / Standard balancing without key							
Motor con paquete central, largo paquete especial							
Motor with centralized stack, special stack length							
Provenido sin chaveta / Supplied without key							
Sin ventilador / Without fan							
Categoria A / Design A							
Plan de pintura 207A / Painting plan 207A							
Forma constructiva NEMA F-1 / Mounting NEMA F-1							
Forma constructiva B34R(D) / Mounting B34R(D)							
WEG ELECTRIC CORPORATION – WEC							
500001952677		CONFORME A CLAIM 418290715	RESTELA	IRVINGI	IRVINGI	22.06.2021	03
500001587875		ACCORDING TO 415383210	PEREZA	MISAEEL	MISAEEL	23.04.2019	02
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE
EXECUTED	PNAVA			THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 182/4TCZ IP55		10002646819	
CHECKED	AZUE						
RELEASED	AZUE						
REL DT	03.01.2014	WMX	HUEHUETOCA	INGENIERA DEL PRODUCTO	SHEET	1 / 1	

1.- SPECIAL THERMAL PROTECTOR:
10018066 BIMETAL THERMAL PROT 155 NF 7AM/CD79

NOTES:

5 HP 04 Poles 60Hz 413285530

A