

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 16957356

Frame	: 364/5LP	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 54.2 A	Protection degree	: IP55
L. R. Amperes	: 352 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 12.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3552 rpm	Noise level ²	: 85.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 12.3 kgfm	Approx. weight ³	: 465 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4198 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	92.4	93.0	93.6	Max. traction : 0 kgf
Power Factor	0.00	0.83	0.88	0.89	Max. compression : 0 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.3	4.6	4.2	3.3	1.7	1.1	0.6

	Drive end	Non drive end
Bearing type	: 6314	7311BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 1802 h	1621 h
Lubricant amount	: 27 g	18 g
Lubricant type	Mobil Polyrex EM	

Notes

IN LINE EXTRA NEMA Premium Efficiency

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				
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LOAD PERFORMANCE CURVE

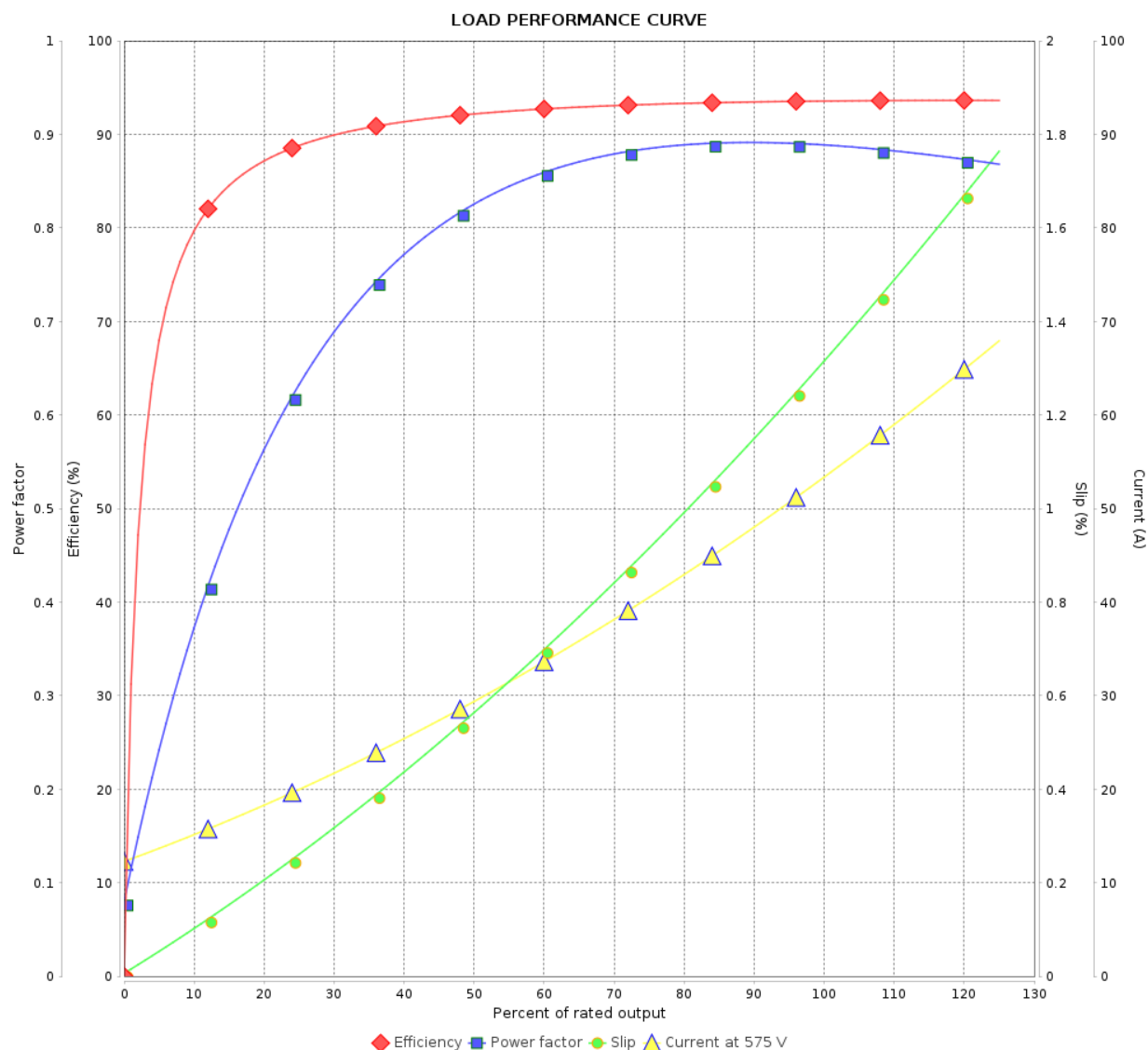
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA
Premium Efficiency Three-Phase

Product code : 16957356



Performance : 575 V 60 Hz 2P

Rated current : 54.2 A
LRC : 6.5
Rated torque : 12.3 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 3552 rpm

Moment of inertia (J) : 0.4198 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
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Date	20/07/2026				

ATENÇÃO/ATTENTION

MOTOR DEVE SER LIGADO APENAS NA
POSIÇÃO VERTICAL

MOTOR MUST BE ENERGIZED ONLY IN THE
VERTICAL POSITION

21.417

16.693

0.689

14.750

45°

NPT 3"

39.803

0.025mm
0.001in

0.125mm
0.005in

0.10mm
0.004in

0.025mm
0.001in

0.250

4.500

13.500

16.500

0.025mm
0.001in

0.125mm
0.005in

0.10mm
0.004in

0.025mm
0.001in

Aterramento 25-50 mm² / 3-1 AWG

Aterramento 25-50 mm² / 3-1 AWG

3.150

R0.030

1.750

0.375

0.040x45°

0.750

4.500

Ponta de eixo Dianteira

0.500

2.1250

0.500

1.845

DUNC 5/8"-11 WEG WPR-7339

60 HP 02 Polos 60 Hz

A

V.J. PAMENSKY CANADA INC.

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INITIAL ISSUE

CLEITONGS

CLEITONGS

KITZBERGER

08.11.2022

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ECM

LOC

RESUMO MODIFICAÇÃO

EXECUTADO

VERIFICADO

LIBERADO

DATA

VER

EXECUTOR

CLEITONGS

VERIFICADOR

CLEITONGS

LIBERADOR

KITZBERGER

DATA LB.

08.11.2022

WMO

Jaragua do Sul

Engenharia de Produto

FOLHA

1 / 1

MOTOR TRIFÁSICO IN LINE EXTRA THRUST

CARCAÇA 364/5LP IP55 TEFC

10010254849

000 | 00

Placa de identificação com marcação TEMP. CODE T3

Forma construtiva NEMA W-6

Forma construtiva V1

Propriedade da WEG. Proibida reprodução sem autorização prévia.

CÓPIA SEM CONTROLE

Dimensões em polegadas

LIBERADO

A3