

# DATA SHEET W21



## AL71-02 Three Phase Induction Motor - Squirrel Cage

Customer :  
Customer reference :

Product line : IP55 Standard Alumínio Multimontagem Multitensão (Centro 6100)

Frame : 71	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B3T
Duty cycle : S1	Direct of rotation <sup>1</sup> : Both
Ambient temperature : -20 °C to +45 °C	Starting method : Direct on line
Altitude : 1000 m.a.s.l	Weight <sup>3</sup> : 10.2 kg
Degree of protection : IP55	Moment of inertia (J) : 0.0003 kgm <sup>2</sup>
Design : N	

Output	0.62 kW		0.62 kW
Poles	2		2
Frequency	60 Hz		60 Hz
Rated voltage	440 V		460 V
Rated current	1.38 A		1.34 A
L. R. Amperes	6.90 A		6.70 A
LRC (p.u.)	5.0 x Code G		5.0 x Code G
No load current	0.800 A		0.900 A
Rated speed	3365 rpm		3395 rpm
Slip	6.53 %		5.69 %
Rated torque	1.76 Nm		1.74 Nm
Locked rotor torque	240 %		270 %
Breakdown torque	240 %		260 %
Service factor	1.00		1.00
Temperature rise <sup>4</sup>	100 K		100 K
Noise level <sup>2</sup>	60.0 dB(A)		60.0 dB(A)
Locked rotor time	10 s (hot)		10 s (hot)
	18 s (cold)		18 s (cold)
Efficiency (%)	50%	65.4	64.0
	75%	70.0	70.5
	100%	69.5	71.0
Power factor	Start	0.83	0.83
	50%	0.63	0.58
	75%	0.75	0.72
	100%	0.85	0.82

Bearing type	Drive end	Non drive end	Foundation loads	
	6203-ZZ	6202-ZZ		Maximum traction : 131 N
	Lubrication interval	-		Maximum compression : 231 N
	Lubricant amount	-		
Lubricant type	MOBIL POLYREX EM			

Standards	Specification : IEC 60034-1	Vibration : IEC 60034-14
	Tests : IEC 60034-2	Tolerance : IEC 60034-1
	Noise : IEC 60034-9	

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

(1) When viewed from the drive end.  
 (2) Measured at 1m and with tolerance of +3dB(A).  
 (3) Approximate weight subject to changes after manufacturing process.  
 (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Summary of changes	Performed	Checked	Date
Performed by	noelf			029765/2017-T
Checked by				Page Revision
Date	16/02/2017			1/1 0