



• PROJECT: AVANTE 2200
 • SHIPYARD: NAVANTIA S.A.
 • SYSTEM: HVAC



ISO 9001
 ISO 14001
 OHSAS 18001
 BUREAU VERITAS
 Certification



DATA SHEET					
Customer		: WEG IBERIA INDUSTRIAL S.L.			
Product line		: W22 - IE1 Standard Efficiency Multitensão			
Frame	: 180M	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B3T		
Duty cycle	: S1	Direct of rotation ¹	: Both		
Ambient temperature	: -20 °C to +60 °C	Starting method	: Direct on line		
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 159 kg		
Degree of protection	: IP55	Moment of inertia (J)	: 0.1398 kgm ²		
Design	: N				
Output	21 kW	21 kW	18.5 kW		
Poles	4	4	4		
Frequency	60 Hz	60 Hz	60 Hz		
Rated voltage	440 V	460 V	460 V		
Rated current	35.8 A	35.0 A	31.5 A		
L. R. Amperes	258 A	270 A	268 A		
LRC (p.u.)	7.2 x Code H	7.7 x Code J	8.5 x Code K		
No load current	13.6 A	15.1 A	15.1 A		
Rated speed	1765 rpm	1770 rpm	1770 rpm		
Slip	1.94 %	1.67 %	1.67 %		
Rated torque	114 Nm	113 Nm	100 Nm		
Locked rotor torque	240 %	280 %	310 %		
Breakdown torque	280 %	320 %	350 %		
Service factor	1.00	1.00	1.00		
Temperature rise ⁴	85 K (SF 1.00)	85 K (SF 1.00)	85 K (SF 1.00)		
Noise level ²	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)		
Locked rotor time	12 s (hot)	12 s (hot)	12 s (hot)		
	22 s (cold)	22 s (cold)	22 s (cold)		
Efficiency (%)	50%	89.0	88.5	88.5	
	75%	90.3	90.0	90.0	
	100%	90.6	90.8	90.9	
Power factor	Start	0.45	0.45	0.45	
	50%	0.71	0.67	0.63	
	75%	0.80	0.78	0.74	
	100%	0.85	0.83	0.81	
Bearing type	Drive end 6311-ZZ-C3	Non drive end 6211-ZZ-C3	Foundation loads		
Lubrication interval	-	-	Maximum traction : 4909 N		
Lubricant amount	-	-	Maximum compression : 6469 N		
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					
Checked by					
Date	19/07/2019				