

## FAN-VEN02005:

### CMR-1031-2T-3 60HZ



Extremely robust medium pressure, single inlet centrifugal fans fitted with a backward-curved impeller.

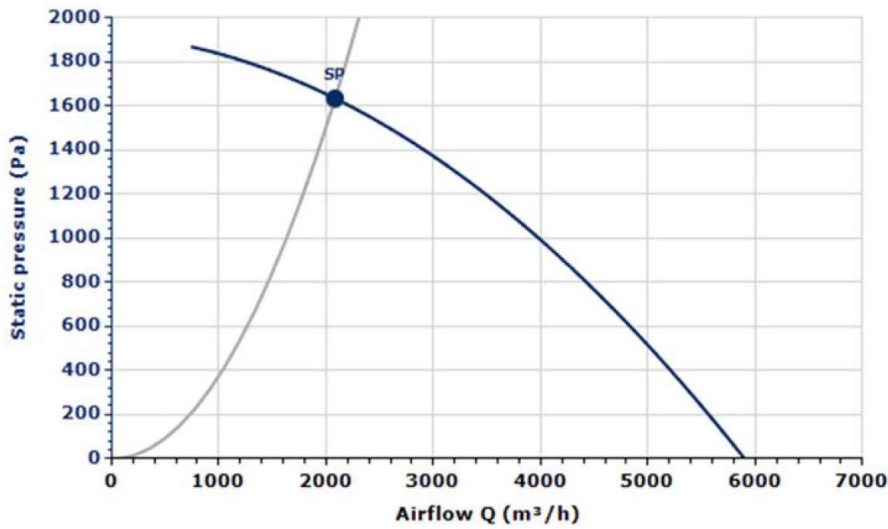
Fan:

- Sheet steel casing.
- Impeller with reaction blades in extremely robust sheet steel.

Finish:

- Anticorrosive finish of polyester resin polymerised at 190 °C. previously degreased with phosphate-free nanotechnological treatment.

#### CHARACTERISTIC CURVE AT 1.2KG/M<sup>3</sup>

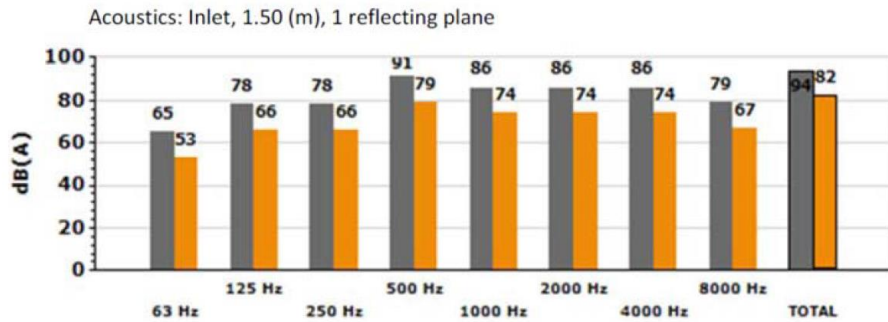


#### Design Point

Q (m <sup>3</sup> /h)	2079
Ps (Pa)	1628

#### Service Point (SP)

Q (m <sup>3</sup> /h)	2082.52
Ps (Pa)	1633.52
Pd (Pa)	32.38
Pt (Pa)	1665.89



Band	Lw dB(A)	Lp dB(A)
63 Hz	65	53
125 Hz	78	66
250 Hz	78	66
500 Hz	91	79
1000 Hz	86	74
2000 Hz	86	74
4000 Hz	86	74
8000 Hz	79	67
TOTAL	94	82



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



ISO 9001  
 ISO 14001  
 OHSAS 18001  
 BUREAU VERITAS  
 Certification



## DATA SHEET



### Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Standard Alumínio Multimontagem Multitensão (Centro 6100)		Product code : 15052241	
Frame	: 90S/L	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	Approx. weight <sup>3</sup>	: 18.5 kg		
Degree of protection	: IP55	Moment of inertia (J)	: 0.0022 kgm <sup>2</sup>		
Design	: N				
Output	2.6 kW	2.6 kW	2.2 kW		
Poles	2	2	2		
Frequency	60 Hz	60 Hz	60 Hz		
Rated voltage	440 V	460 V	460 V		
Rated current	4.76 A	4.62 A	4.13 A		
L. R. Amperes	32.3 A	31.4 A	31.4 A		
LRC (p.u.)	6.8 x Code H	6.8 x Code H	7.6 x Code K		
No load current	1.85 A	2.10 A	2.10 A		
Rated speed	3370 rpm	3390 rpm	3430 rpm		
Slip	6.39 %	5.83 %	4.72 %		
Rated torque	7.37 Nm	7.33 Nm	6.13 Nm		
Locked rotor torque	240 %	270 %	320 %		
Breakdown torque	260 %	290 %	350 %		
Service factor	1.00	1.00	1.15		
Temperature rise <sup>4</sup>	100 K	100 K	100 K		
Noise level <sup>2</sup>	68.0 dB(A)	68.0 dB(A)	68.0 dB(A)		
Locked rotor time	9 s (hot)	9 s (hot)	9 s (hot)		
	16 s (cold)	16 s (cold)	16 s (cold)		
Efficiency (%)	50%	77.0	77.0	75.6	
	75%	80.0	80.0	78.8	
	100%	81.5	81.5	80.6	
Power factor	Start	0.70	0.70	0.70	
	50%	0.73	0.68	0.63	
	75%	0.83	0.80	0.75	
	100%	0.88	0.86	0.83	
Bearing type	Drive end 6205-ZZ	Non drive end 6204-ZZ	Foundation loads		
Lubrication interval	-	-	Maximum traction : 569 N		
Lubricant amount	-	-	Maximum compression : 751 N		
Lubricant type	MOBIL POLYREX EM				
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					182635/2020-T
Checked by					
Date					