

## FAN-VEN02006:

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



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

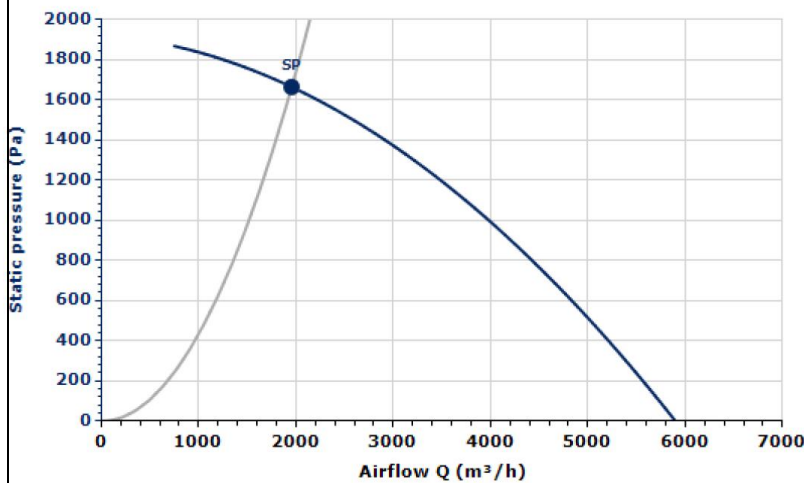
Fan:

- 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>



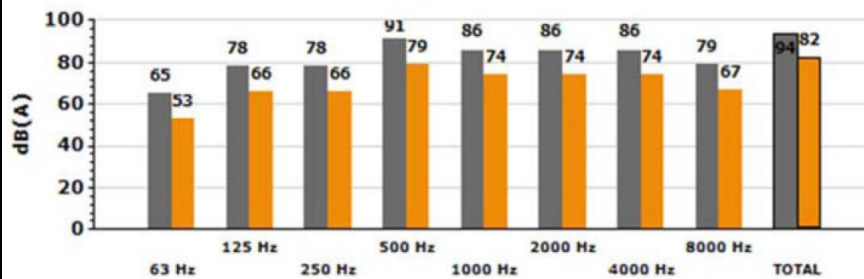
#### Design Point

Q (m <sup>3</sup> /h)	1955
Ps (Pa)	1663

#### Service Point (SP)

Q (m <sup>3</sup> /h)	1955.21
Ps (Pa)	1663.35
Pd (Pa)	28.54
Pt (Pa)	1691.89
Impeller (rpm)	3480
Max. Temp. (°C)	250
Outlet air speed (m/s)	6.90

Acoustics: Inlet, 1.50 (m), 1 reflecting plane



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



DATA SHEET			
Customer :			
Product line : Standard Alumínio Multimontagem Multitensão (Centro 6100)		Product code : 15052241	
Frame : 90S/L	Insulation class : F	Duty cycle : S1	Ambient temperature : -20 °C to +45 °C
Altitude : 1000 m.a.s.l	Degree of protection : IP55	Design : N	Cooling method : IC411 - TEFC
Mounting : B3T	Direct of rotation <sup>1</sup> : Both	Starting method : Direct On Line	Approx. weight <sup>3</sup> : 18.5 kg
Moment of inertia (J) : 0.0022 kgm <sup>2</sup>			
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) 16 s (cold)	9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	77.0	75.6
	75%	80.0	78.8
	100%	81.5	80.6
Power factor	Start	0.70	0.70
	50%	0.73	0.68
	75%	0.83	0.75
	100%	0.88	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			