

## FAN-VEN02031 (ATEX ZONE 2):

# CMP/ATEX

Centrifugal medium-pressure fans fitted with multi-blade impeller with ATEX certification

## CMP-616-2T 60HZ



Centrifugal single-inlet, medium-pressure fans with casing and sheet steel impeller to work in explosive atmospheres.

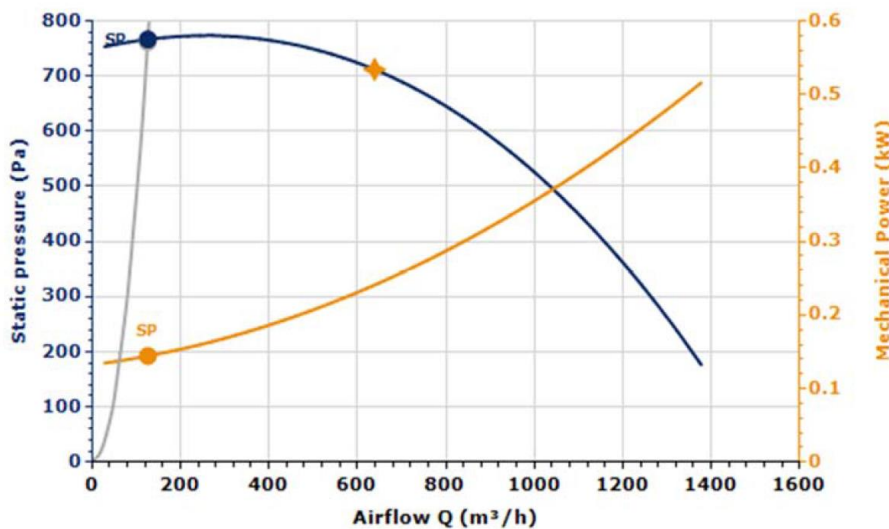
**Fan:**

- Steel sheet casing
- Impeller with forward-facing blades made from galvanised sheet steel
- Spark-proof inlet ring in copper or aluminium
- Max. air temperature to transport: -20°C+ 80°C

**Finish:**

- Rust retardant finish with ATEX paint, containing no ferrous components, in polyester resin polymerised at 190°C, after phosphate free pre-treatment

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



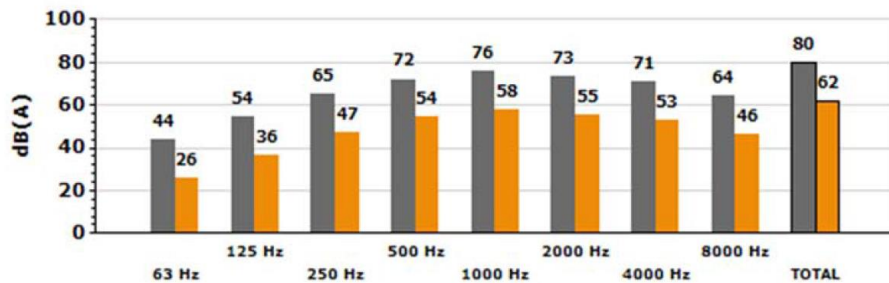
**Design Point**

Q (m <sup>3</sup> /h)	126
Ps (Pa)	762

**Service Point (SP)**

Q (m <sup>3</sup> /h)	126.41
Ps (Pa)	766.92
Pd (Pa)	4.3772
Pt (Pa)	771.30

Acoustics: Inlet, 3 (m), 1 reflecting plane



Band	Lw dB(A)	Lp dB(A)
63 Hz	44	26
125 Hz	54	36
250 Hz	65	47
500 Hz	72	54
1000 Hz	76	58
2000 Hz	73	55
4000 Hz	71	53
8000 Hz	64	46
TOTAL	80	62



• 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 : W22Xec Increased Safety - Standard Efficiency IE1 Product code : 14994627					
Frame	: 71	Locked rotor time	: 7 s (hot) 13 s (cold)		
Output	: 0.55 kW	Temperature rise <sup>4</sup>	: 80 K		
Poles	: 2	Duty cycle	: S1		
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +45 °C		
Rated voltage	: 440 V	Altitude	: 1000 m.a.s.l		
Rated current	: 1.18 A	Degree of protection	: IP55		
L. R. Amperes	: 6.61 A	Cooling method	: IC411 - TEFC		
LRC (p.u.)	: 5.6	Mounting	: B34T		
No load current	: 0.780 A	Direct of rotation <sup>1</sup>	: Both		
Rated speed	: 3400 rpm	Noise level <sup>2</sup>	: 60.0 dB(A)		
Slip	: 5.56 %	Vibration class	: A		
Rated torque	: 1.55 Nm	Starting method	: Direct On Line		
Locked rotor torque	: 230 %	Coupling	: Direct		
Pull up torque	: 195 %	Approx. weight <sup>3</sup>	: 10.1 kg		
Breakdown torque	: 240 %	Painting plan	: 205P		
Insulation class	: F	Color	: RAL 5009		
Service factor	: 1.00	Efficiency level	: IE1		
Moment of inertia (J)	: 0.0004 kgm <sup>2</sup>	Design	: N		
Output	Start	50%	75%	100%	
Efficiency (%)	-	71.0	71.5	72.0	
Power factor	0.86	0.64	0.77	0.85	
	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads		
Bearing type	6202-ZZ	6202-ZZ	Maximum traction	: 83 N	
Lubrication interval	-	-	Maximum compression	: 182 N	
Lubricant amount	-	-			
Lubricant type	MOBIL POLYREX EM				
Notes:					
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	16/08/2019				