

FAN-VEN02017 (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.

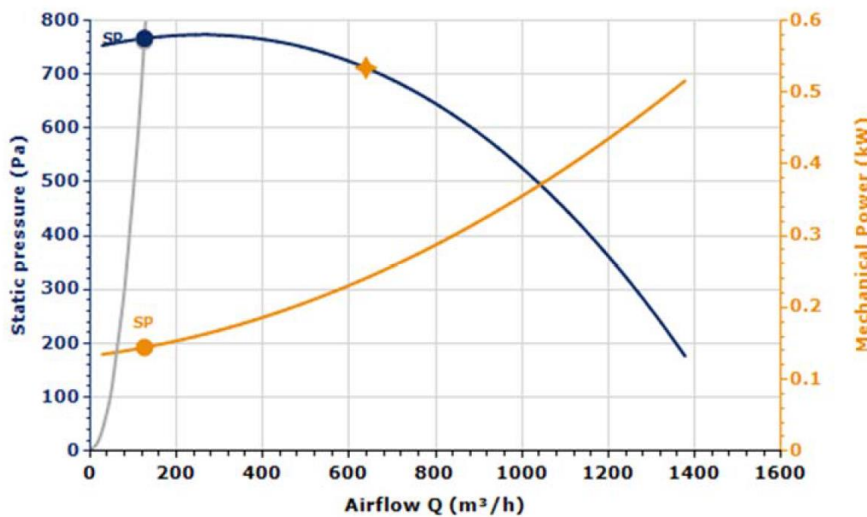
Fan:

- 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/M³



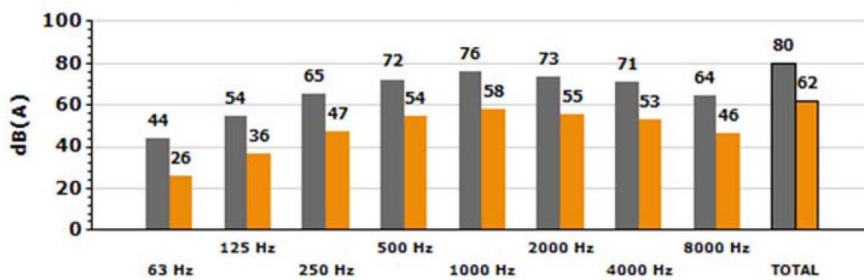
Design Point

Q (m³/h)	126
Ps (Pa)	762

Service Point (SP)

Q (m³/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



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 ⁴	: 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 ¹	: Both			
Rated speed	: 3400 rpm	Noise level ²	: 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 ³	: 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 ²	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					