

FAN-VEN01014 (ATEX ZONE 1):

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.

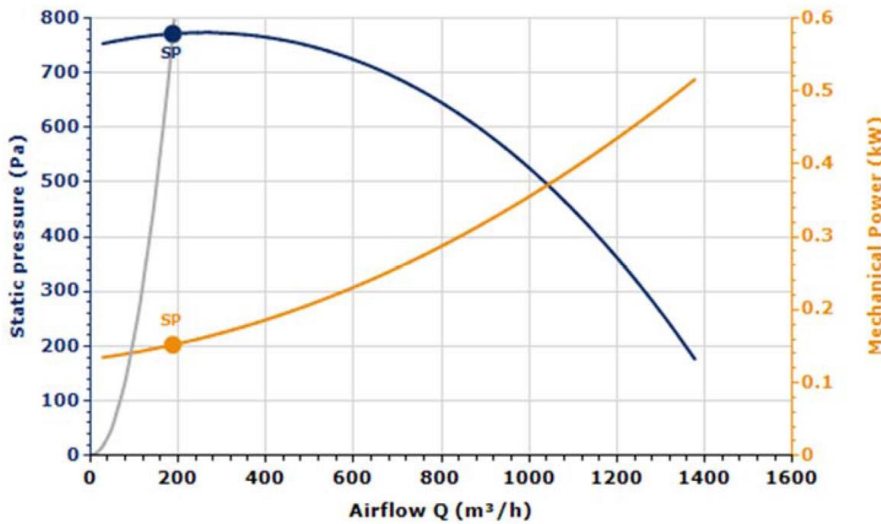
Fan:

- 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



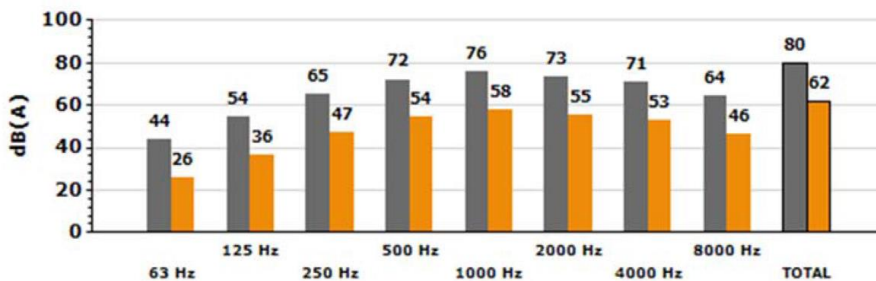
Design Point

| | |
|-----------------------|-----|
| Q (m ³ /h) | 188 |
| Ps (Pa) | 770 |

Service Point (SP)

| | |
|-----------------------|--------|
| Q (m ³ /h) | 188.21 |
| Ps (Pa) | 771.74 |
| Pd (Pa) | 9.70 |
| Pt (Pa) | 781.45 |

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 | : W22Xdb Flameproof - Standard Efficiency IE1 | | | | |
| Frame | : 71 | Locked rotor time | : 7 s (hot) 13 s (cold) | | |
| Output | : 0.55 kW | Temperature rise ⁴ | : 75 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 | : IP56 | | |
| L. R. Amperes | : 6.80 A | Cooling method | : TEFC-XP | | |
| 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 | : 18.4 kg | | |
| Breakdown torque | : 240 % | Painting plan | : 205P | | |
| Insulation class | : F | Color | : RAL 5009 | | |
| Service factor | : 1.00 | Design | : N | | |
| Moment of inertia (J) | : 0.0004 kgm ² | | | | |
| Output | Start | 50% | 75% | 100% | Load type: - |
| Efficiency (%) | - | 64.0 | 68.5 | 70.0 | Load torque: - |
| Power factor | 0.86 | 0.64 | 0.77 | 0.85 | Load inertia (J=GD ² /4): - |
| Bearing type | | <u>Drive end</u> | <u>Non drive end</u> | Foundation loads | |
| Lubrication interval | | 6202-ZZ | 6202-ZZ | Maximum traction | : 42 N |
| Lubricant amount | | - | - | Maximum compression | : 223 N |
| 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. | | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1. | | |
| (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. | | | | | |
| Rev. | Summary of changes | | | Performed | Checked |
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | | |
| Date | | | | | |