

## FAN-VEN01008:

### CMR-731-2T 60HZ



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

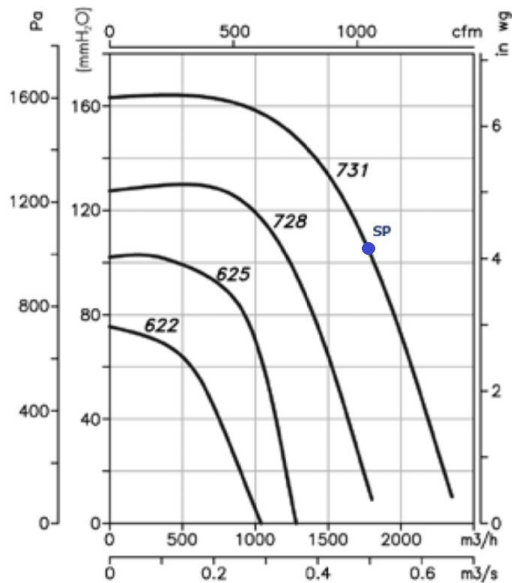
Fan:

- 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 AND ACOUSTICS AT 1.2KG/M<sup>3</sup>



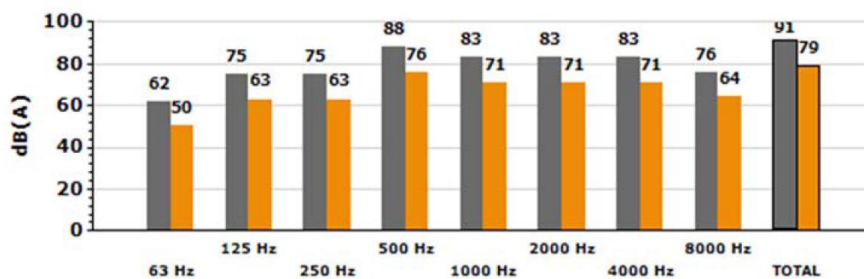
#### Design Point

Q (m <sup>3</sup> /h)	1779
Ps (Pa)	1020

#### Service Point (SP)

Q (m <sup>3</sup> /h)	1779.00
Ps (Pa)	1020.00
Pd (Pa)	72.64
Pt (Pa)	1092.64

Acoustics: Inlet, 1.50 (m), 1 plane



Band	Lw dB(A)	Lp dB(A)
63 Hz	62	50
125 Hz	75	63
250 Hz	75	63
500 Hz	88	76
1000 Hz	83	71
2000 Hz	83	71
4000 Hz	83	71
8000 Hz	76	64
TOTAL	91	79

## DATA SHEET



### Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : Standard Alumínio Multimontagem Multitensão (Centro 6100)		Product code : 14980523			
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 : B14T	Direct of rotation <sup>1</sup> : Both	Starting method : Direct On Line	Approx. weight <sup>3</sup> : 14.8 kg		
Moment of inertia (J) : 0.0017 kgm <sup>2</sup>					
Output	1.8 kW	1.8 kW	1.5 kW		
Poles	2	2	2		
Frequency	60 Hz	60 Hz	60 Hz		
Rated voltage	440 V	460 V	460 V		
Rated current	3.44 A	3.36 A	2.91 A		
L. R. Amperes	21.7 A	21.2 A	21.0 A		
LRC (p.u.)	6.3 x Code H	6.3 x Code H	7.2 x Code K		
No load current	1.55 A	1.85 A	1.85 A		
Rated speed	3410 rpm	3430 rpm	3465 rpm		
Slip	5.28 %	4.72 %	3.75 %		
Rated torque	5.04 Nm	5.01 Nm	4.14 Nm		
Locked rotor torque	220 %	250 %	300 %		
Breakdown torque	200 %	240 %	290 %		
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	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)		
Efficiency (%)	50%	76.0	74.5		
	75%	78.0	77.9		
	100%	78.0	79.0		
Power factor	Start	0.69	0.69		
	50%	0.74	0.63		
	75%	0.83	0.75		
	100%	0.88	0.82		
Bearing type	Drive end 6205-ZZ	Non drive end 6204-ZZ	Foundation loads		
Lubrication interval	-	-	Maximum traction : 329 N		
Lubricant amount	-	-	Maximum compression : 474 N		
Lubricant type	MOBIL POLYREX EM				
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	Date
Performed by			182633/2020-T		
Checked by					
Date					