

MA 31 T2 2,2kW

GENERAL DATA



FORWARD ALLUMINIUM IMPELLER FAN, ALLUMINIUM CAST CASING

MANUFACTURING FEATURES:

- Cast aluminium housing.
- Cast aluminium impeller.
- Polyester powder finishing coat.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz in single phase motors and 230/400V 50Hz in three phase motors.
- Standard position LG 270.

APPLICATIONS:

Designed for inline installation, they are suitable for:

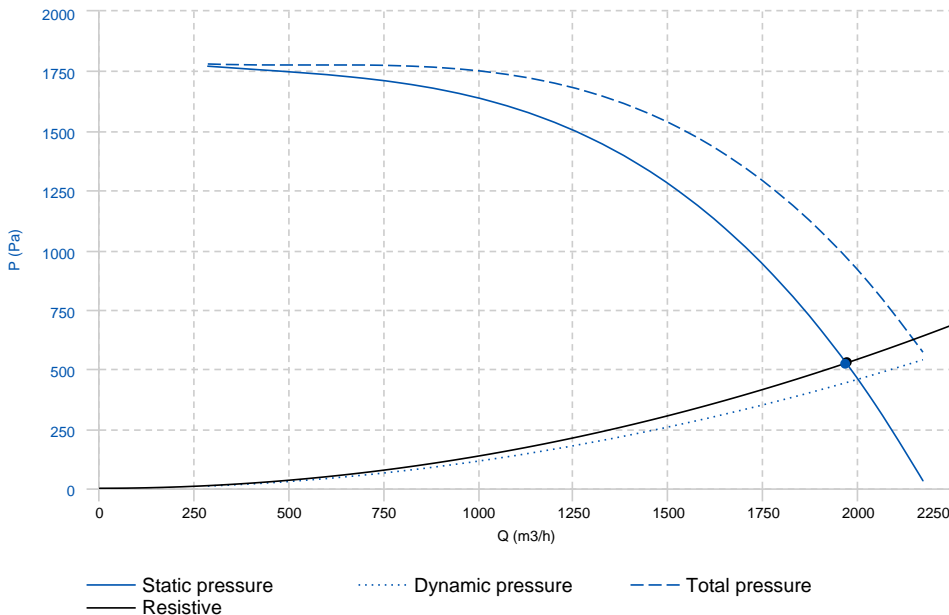
- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean and slightly dusty air transport.
- Maximum working temperature: carried air: 130°C, environment: 60°C for three phase motors and 50°C for single phase motors.

UNDER REQUEST:

- Special voltages.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG315.

PERFORMANCE CURVE

20°C 0m 1.2 Kg/m³



Design point	
Flow (m3/h)	1971.51
Pressure (Pa)	527.2
Service point	
T.max (°C)	130
Q (m3/h)	1967.66
Ps (Pa)	525.14
Pd (Pa)	443.26
Pt (Pa)	968.41
Speed (m/s)	27.18
Pabs (kW)	2.33

TECHNICAL DATA

Fan

RPM	2800	Approx. weight	30 kg	Max. Flow	2170 m3/h
-----	------	----------------	-------	-----------	-----------

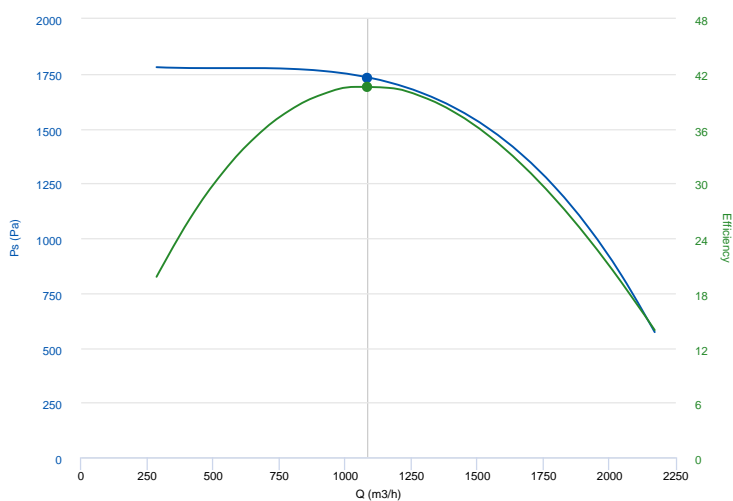
Motor

Power	2,2 kW	RPM	2840	I max. (230V)	7,97 A	I max. (400V)	4,58 A
Size	90L	Approx. weight	25 kg	Efficiency (%)	83.6 %	FP	0.83

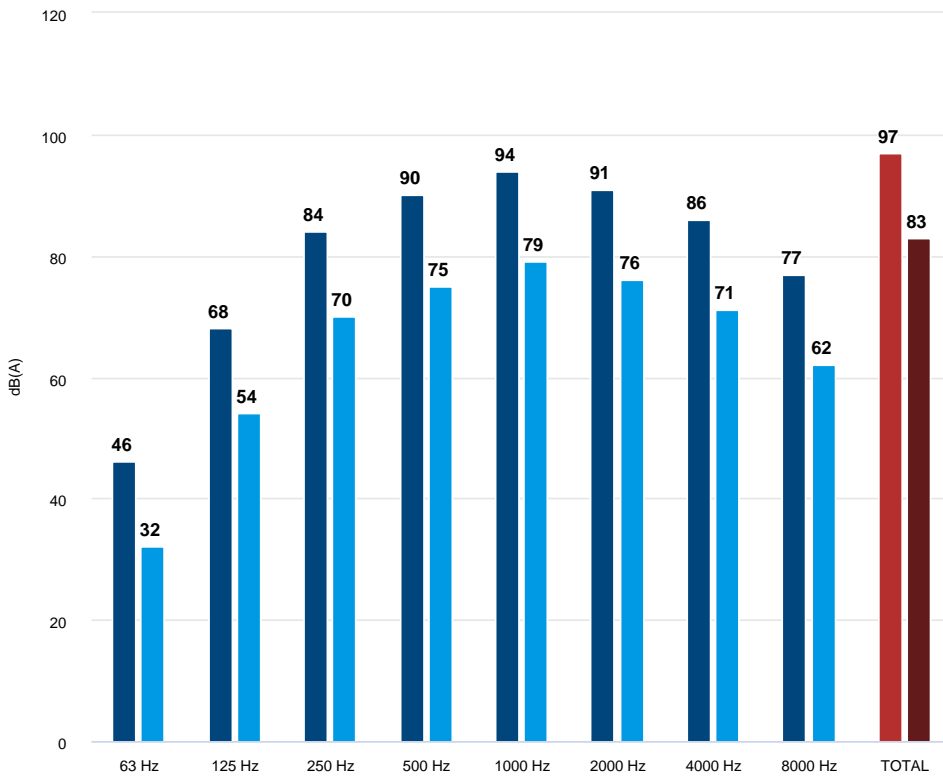
ERP DATA

Fan data sheet

Fan type	Centrifugal fan radial or forward blades	
Installation category	B: Inlet free, Ducted outlet	
Efficiency category	Total	
The fan has to be installed with VF	No	
Motor power (kW)	2.2	
	Fan values	ERP Requirements 2015
Max. efficiency (%)	40.62	43.4
Efficiency grade (N)	46.22	49
Pabs (kW)	1.307	
reports.flow (m3/h)	1085.59	
Total pressure (Pa)	1733.55	
Speed (m/s)	2800	
Specific ratio	1.00	



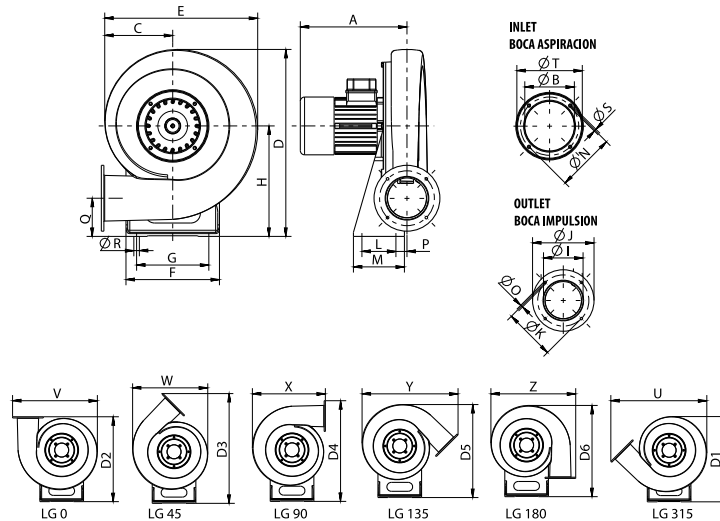
ACOUSTIC DATA



Sound power	
63 Hz	46
125 Hz	68
250 Hz	84
500 Hz	90
1000 Hz	94
2000 Hz	91
4000 Hz	86
8000 Hz	77
TOTAL	97

Sound pressure 1.5m (in)	
63 Hz	32
125 Hz	54
250 Hz	70
500 Hz	75
1000 Hz	79
2000 Hz	76
4000 Hz	71
8000 Hz	62
TOTAL	83

DIMENSIONS



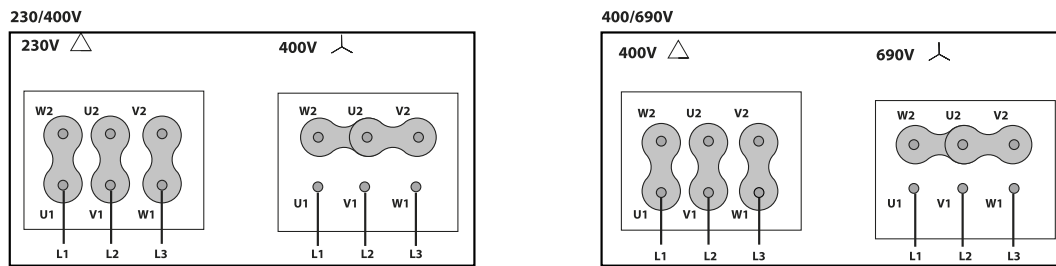
Dimensions (mm)

A	320	BØ	160	C	193	D	530	D1	518
D2	513	D3	668	D4	620	D5	568	D6	555
E	428	F	240	G	190	H	323	I	140
J	200	K	175	L	120	M	160	NØ	180
OØ	10,2	P	18,5	Q	122	RØ	13	SØ	M6


Dimensions (mm)


TØ	215	U	570	V	510	W	445	X	428
Y	570	Z	510						


WIRING DIAGRAM





ACCESSORIES


- 


**SAFETY SWITCH
INT 25 3P A**
REF: INT253PA
- 

**ANTI-VIBRATING FLANGE 400º/2H
BA-400 15/16**
REF: 960002067
- 

**CONNECTION FLANGE
AC 150**
REF: 960003204
- 

**CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE
BAD 4**
REF: 960003454
- 

**INLET PROTECTION GUARD FOR CENTRIFUGAL FANS
RA 16/6**
REF: 253111901
- 

**ANTI-VIBRATION JOINT
JE 45**
REF: 300719201
- 

**OUTLET PROTECTION GUARD
RBS 31**
REF: 960000383
- 

**FREQUENCY SPEED CONTROLLER
SFC 230 I 10A ***
REF: SFC230I0010



FREQUENCY SPEED CONTROLLER
SFC 400 III 5A *
REF: SFC400III5



ANTI-VIBRATION RUBBER BLOCK
AVR (GENERIC)



ANTI-VIBRATION SPRING BLOCK
AVS (GENERIC)

SPARE PARTS

	Code	Model	RPM	Degrees
1	153603651	1 x TURBINE MA31 LG	-	-
2	721001052	1 x MOTOR 2,2kW T2 B14 230/400V IEC90	-	-
3	153601771S	1 x CASING MA31	-	-
4	153601751S	1 x BASE SUPPORT MOTOR MA31	-	-