

MB22/9-28/11



MEDIUM PRESSURE CENTRIFUGAL FAN WITH FORWARD IMPELLER

MANUFACTURING FEATURES:

- Rolling steel sheet housing.
- Completely joined or welded housing.
- Galvanised steel sheet simple inlet forward curved impeller.
- Polyester powder finishing coat.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230/400V 50Hz in three phase motors.

- Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
- The indicated codes correspond to the model in position LG270

APPLICATIONS:

- Designed for inline installation, they are suitable for:
- Industrial applications, extraction or injection of air.
 - Cooling of machines and parts.
 - Suitable for transporting totally clean air without dust.
 - Maximum working temperature: carried air: 130°C, environment 60°C.

UNDER REQUEST:

- Special voltages.
- 2 speed motors.
- Fan for air working temperatures up to 250°C.
- Fans provided with cooling disk for high temperature.
- Option with support for models where it is not included, and without support for models where it is included.

Accessories



AB



AC



AVR



AVS



BA-400



EI



FS



INT



JE 45



RA



RBS



SFC

Technical data

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
253210120	MB 22/9 T2 1,1kW	2800	4,05	2,33	1,10	1.480	55	24	1
253200106	MB 22/9 T2 2,2kW	2840	7,97	4,58	2,20	2.890	65	30	1
253280106	MB 25/10 T2 2,2kW	2840	7,97	4,58	2,20	2.540	62	32	1
253290106	MB 25/10 T2 3kW	2880	10,3	5,92	3,00	3.360	66	38	1
253360106	MB 28/11 T2 4kW	2880	13,3	7,63	4,00	3.600	70	46	1

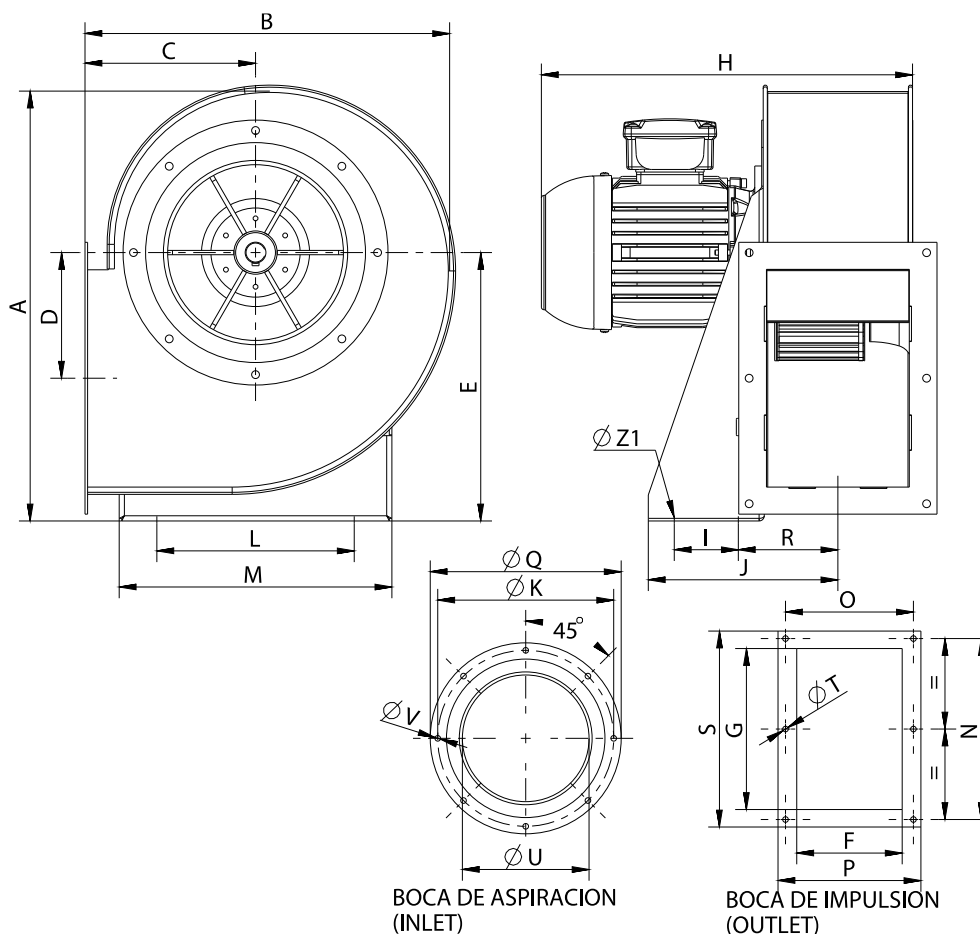
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
253260106	MB 22/9 T4 0,37kW	1370	1,86	1,07	0,37	1.830	59	21	1
253320106	MB 25/10 T4 0,75kW	1410	2,83	1,63	0,75	2.830	59	26	1
253410106	MB 28/11 T4 1,1kW	1450	4,33	2,49	1,10	3.580	65	32	1

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	C	D	E	F	G	H	I
MB 22/9 T2 1,1kW	455	393,5	184	140	280	140	216	385,5	50
MB 22/9 T2 2,2kW	455	393,5	184	140	280	140	216	429	50
MB 22/9 T4 0,37kW	455	393,5	184	140	280	140	216	369,5	50
MB 25/10 T2 2,2kW	502,5	429	197	150,5	310	165	254	463	74
MB 25/10 T2 3kW	502,5	429	197	150,5	310	165	254	498	74
MB 25/10 T4 0,75kW	502,5	429	197	150,5	310	165	254	427	74
MB 28/11 T2 4kW	555	475	216	160	340	176	300	529,5	95
MB 28/11 T4 1,1kW	555	475	216	160	340	176	300	453,5	95

Model	J	K	L	M	N	O	P	Q	R
MB 22/9 T2 1,1kW	182.5	256	220	290	256	180	204	280	102
MB 22/9 T2 2,2kW	182.5	256	220	290	256	180	204	280	102
MB 22/9 T4 0,37kW	182.5	256	220	290	256	180	204	280	102
MB 25/10 T2 2,2kW	219	282	228	315	290	205	229	306	114,5
MB 25/10 T2 3kW	219	282	228	315	290	205	229	306	114,5

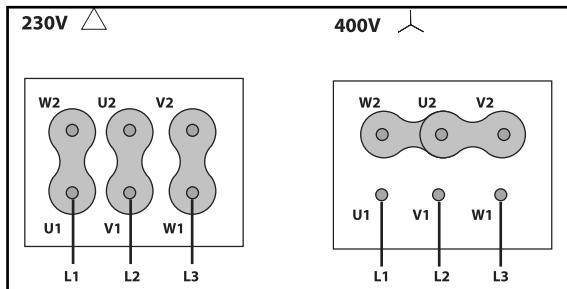
Model	J	K	L	M	N	O	P	Q	R
MB 25/10 T4 0,75kW	219	282	228	315	290	205	229	306	114,5
MB 28/11 T2 4kW	234.5	320	245	350	340	220	244	348	110
MB 28/11 T4 1,1kW	234.5	320	245	350	340	220	244	348	110

Model	S	TØ	UØ	VØ	Z1Ø
MB 22/9 T2 1,1kW	282	9	180	9	11
MB 22/9 T2 2,2kW	282	9	180	9	11
MB 22/9 T4 0,37kW	282	9	180	9	11
MB 25/10 T2 2,2kW	314	9	203	9	11
MB 25/10 T2 3kW	314	9	203	9	11
MB 25/10 T4 0,75kW	314	9	203	9	11
MB 28/11 T2 4kW	364	11	228	9	11
MB 28/11 T4 1,1kW	364	11	228	9	11

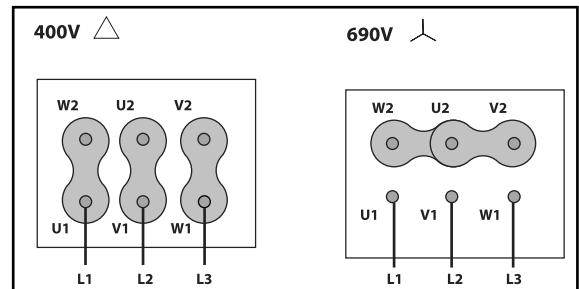
Wiring diagram

Wiring diagram N° 1

230/400V



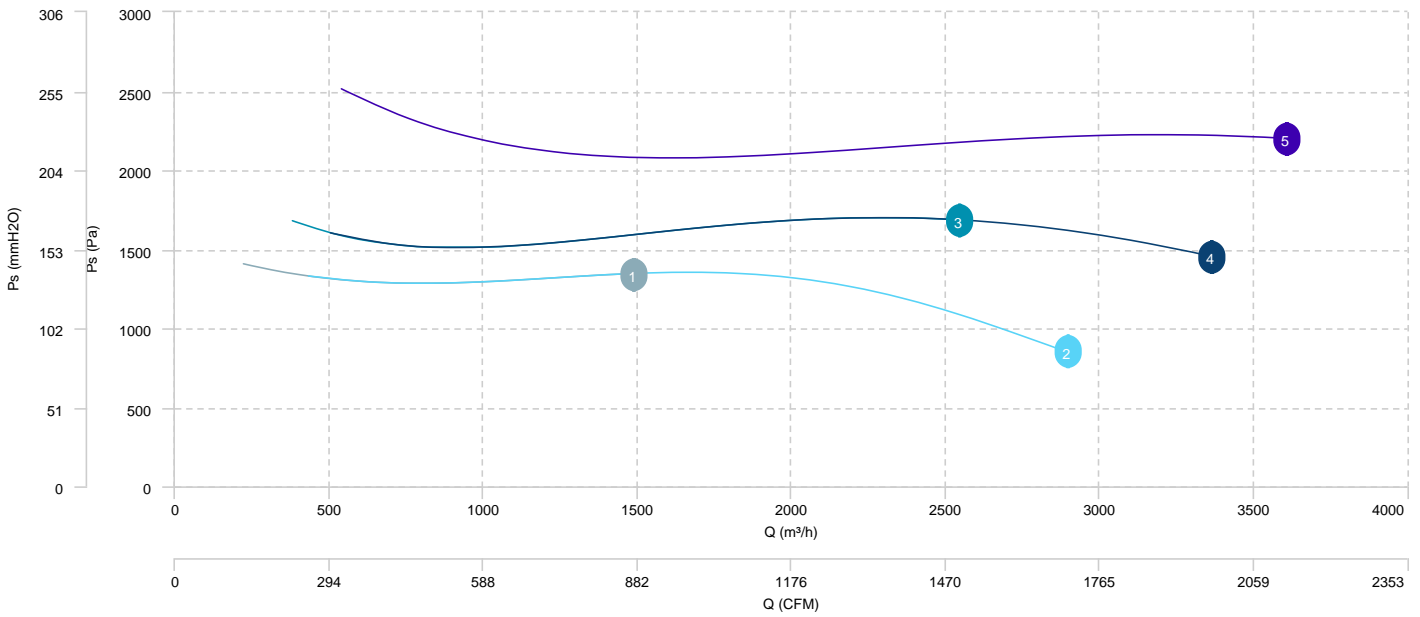
400/690V



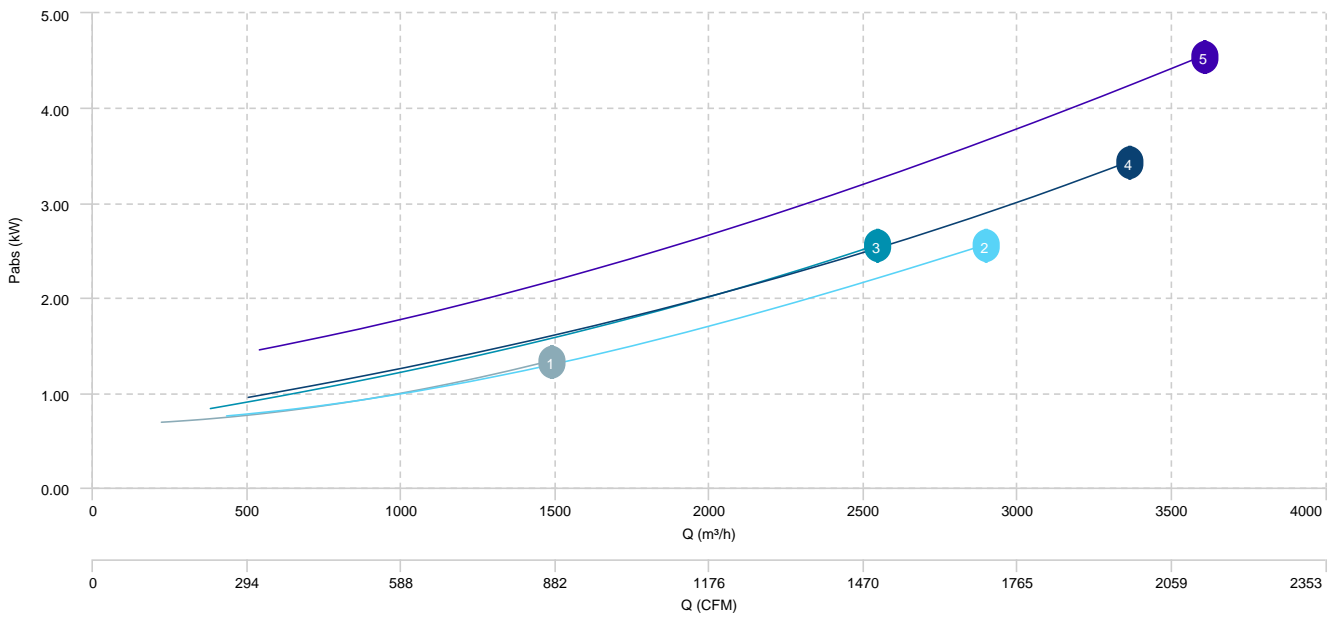
CHARACTERISTIC CURVE

- 1 MB 22/9 T2 1,1kW
- 2 MB 22/9 T2 2,2kW
- 3 MB 25/10 T2 2,2kW
- 4 MB 25/10 T2 3kW
- 5 MB 28/11 T2 4kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER

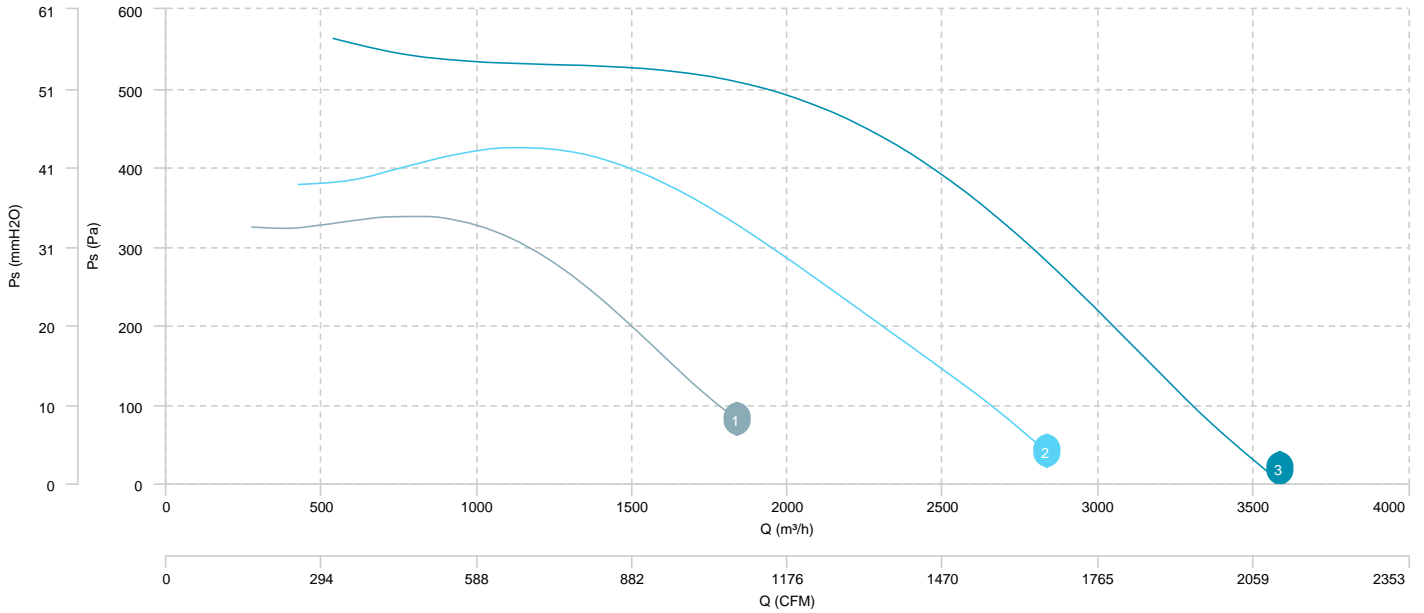


1 MB 22/9 T4 0,37kW

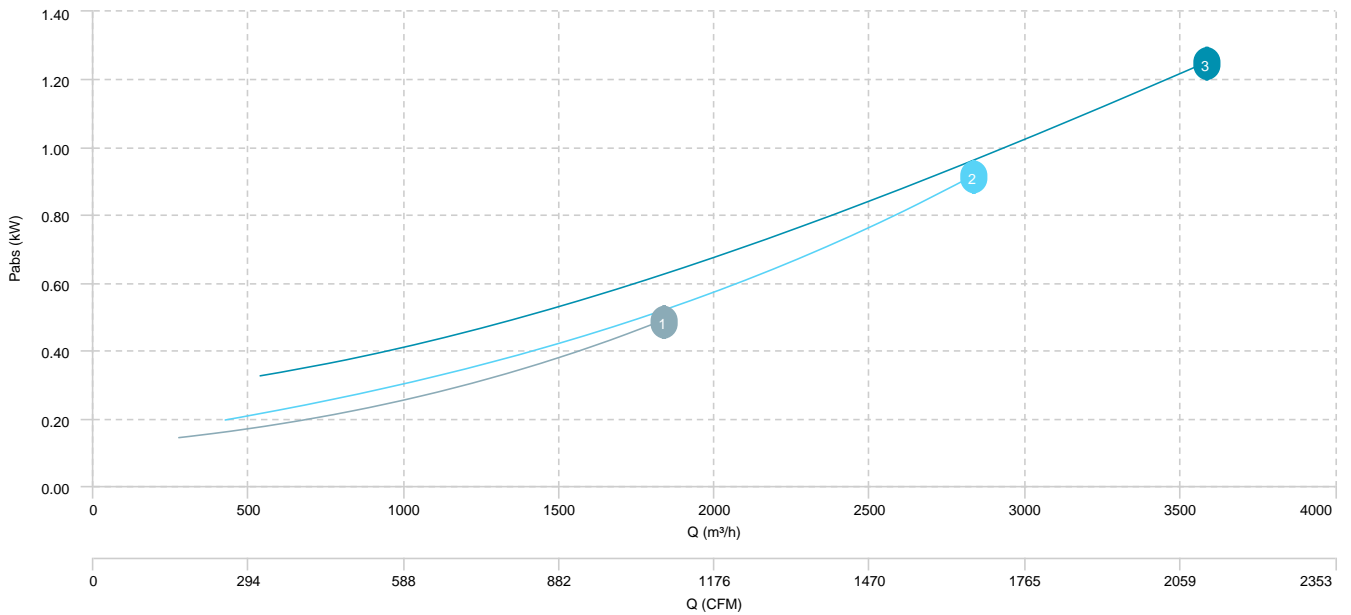
2 MB 25/10 T4 0,75kW

3 MB 28/11 T4 1,1kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MB 22/9 T2 1,1kW	Inlet	46	57	68	71	73	77	73	71	81
MB 22/9 T2 2,2kW	Inlet	56	67	78	81	83	87	83	81	91
MB 25/10 T2 2,2kW	Inlet	53	64	75	78	80	84	80	78	88
MB 25/10 T2 3kW	Inlet	57	68	79	83	85	88	84	82	92
MB 28/11 T2 4kW	Inlet	61	72	83	86	88	92	88	86	96

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MB 22/9 T4 0,37kW	Inlet	54	66	73	74	79	80	76	72	85
MB 25/10 T4 0,75kW	Inlet	54	67	73	74	79	80	76	73	85
MB 28/11 T4 1,1kW	Inlet	60	73	79	80	85	86	82	79	91

erp data

ERP	
Fan type	Centrifugal fan radial or forward blades
Installation category	B
Efficiency category	Total
The fan has to be installed with FSC	No

ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m ³ /h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T2 1,1kW	1,10	45,04	50,58	1.480	1.457,24	1,33	2800	1,00
MB 22/9 T2 2,2kW	2,20	49,46	54,34	1.989,11	1.523,26	1,69	2840	1,00
MB 25/10 T2 2,2kW	2,20	51,44	55,21	2.540	1.856,96	2,55	2840	1,00
MB 25/10 T2 3kW	3	52,11	55,81	2.633,49	1.857,53	2,61	2880	1,00
MB 28/11 T2 4kW	4	53,20	55,38	3.600	2.408,58	4,55	2880	1,00

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m ³ /h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T4 0,37kW	0,37	40,57	50,51	1.065,73	375,19	0,27	1370	1,00
MB 25/10 T4 0,75kW	0,75	44,56	53,49	1.369,87	463,51	0,39	1410	1,00
MB 28/11 T4 1,1kW	1,10	45,41	53,12	1.769,84	563,29	0,61	1450	1,00