

MB12/5-20/8



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: 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 air transport.
- Maximum working temperature: carried air: 130°C, environment single phase 50°C, three phase 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.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG 225, LG 315, RD 0, RD 45, RD 90, RD 135, RD 180, RD 225, RD 270, RD 315.

Accessories



AB



AC



BA-400



BAD



EI



INT



JE 45



RA



RBS



SFC

Technical data

Single-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
253100103	MB 14/5 M2 0,25kW	2800	1,87	0,25	840	58	7	1
253110103	MB 16/6 M2 0,37kW	2800	2,61	0,37	1.080	60	9,50	1
253170103	MB 18/7 M2 0,75kW	2800	4,93	0,75	1.470	63	15	1
253240103	MB 20/6 M2 0,37kW	2800	2,61	0,37	785	61	14	1
253190103	MB 20/8 M2 1,1kW	2820	6,71	1,1	1.960	65	19	1

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
253080103	MB 12/5 M4 0,08kW	1370	0,9	0,08	250	46	5	1
253090103	MB 14/5 M4 0,08kW	1370	0,9	0,08	414	46	6	1
253150103	MB 16/6 M4 0,08kW	1370	0,9	0,08	600	53	7,50	1

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					
253100106	MB 14/5 T2 0,25kW	2800	1,12	0,65	0,25	840	58	7	2
253110106	MB 16/6 T2 0,37kW	2800	1,58	0,91	0,37	1.080	60	9,50	2
253170106	MB 18/7 T2 0,75kW	2800	2,75	1,58	0,75	1.470	63	15	2
253240106	MB 20/6 T2 0,37kW	2800	1,58	0,91	0,37	785	61	14	2
253190106	MB 20/8 T2 1,1kW	2800	4,05	2,33	1,1	1.960	65	19	2

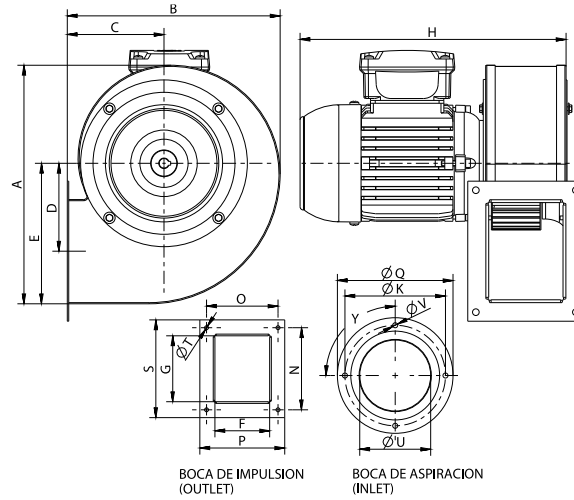
Three-phase motor / 4 poles

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					
253080106	MB 12/5 T4 0,08kW	1400	0,035	0,2	0,08	250	46	5	2
253090106	MB 14/5 T4 0,08kW	1400	0,035	0,2	0,08	414	46	6	2
253150106	MB 16/6 T4 0,08kW	1400	0,035	0,2	0,08	600	53	7,50	2

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	K
MB 12/5 M4 0,08kW	205,5	188	87	71,5	117	72	85	251	135
MB 12/5 T4 0,08kW	205,5	188	87	71,5	117	72	85	251	135
MB 14/5 M2 0,25kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 M4 0,08kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 T2 0,25kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 T4 0,08kW	250,5	224	102	93	147,5	82	106	278	162
MB 16/6 M2 0,37kW	295	266	119	108	171,5	100	120	325	180
MB 16/6 M4 0,08kW	295	266	119	108	171,5	100	120	298	180
MB 16/6 T2 0,37kW	295	266	119	108	171,5	100	120	325	180
MB 16/6 T4 0,08kW	295	266	119	108	171,5	100	120	298	180
MB 18/7 M2 0,75kW	350	305	130	133	205	115	140	358	214
MB 18/7 T2 0,75kW	350	305	130	133	205	115	140	358	214
MB 20/6 M2 0,37kW	347	302	132	150	202	105	100	329	230
MB 20/6 T2 0,37kW	347	302	132	150	202	105	100	329	230
MB 20/8 M2 1,1kW	374	320	138	139	221	130	160	372	230
MB 20/8 T2 1,1kW	374	320	138	139	221	130	160	372	230

Model	N	O	P	Q	S	TØ	UØ	VØ	Y
MB 12/5 M4 0,08kW	105	93	106	150	118	7	92,5	7	4x90º
MB 12/5 T4 0,08kW	105	93	106	150	118	7	92,5	7	4x90º
MB 14/5 M2 0,25kW	128	105	123	175	147	7	115	7	4x90º
MB 14/5 M4 0,08kW	128	105	123	175	147	7	115	7	4x90º
MB 14/5 T2 0,25kW	128	105	123	175	147	7	115	7	4x90º
MB 14/5 T4 0,08kW	128	105	123	175	147	7	115	7	4x90º
MB 16/6 M2 0,37kW	147	128	152	207	172	7	127	9	4x90º

CENTRIFUGAL FANS: MEDIUM PRESSURE

Model	N	O	P	Q	S	TØ	UØ	VØ	Y
MB 16/6 M4 0,08kW	147	128	152	207	172	7	127	9	4x90°
MB 16/6 T2 0,37kW	147	128	152	207	172	7	127	9	4x90°
MB 16/6 T4 0,08kW	147	128	152	207	172	7	127	9	4x90°
MB 18/7 M2 0,75kW	169	146	169	237	192	8	143	9	4x90°
MB 18/7 T2 0,75kW	169	146	169	237	192	8	143	9	4x90°
MB 20/6 M2 0,37kW	128	134	159	255	153	8	161	9	8x45°
MB 20/6 T2 0,37kW	128	134	159	255	153	8	161	9	8x45°
MB 20/8 M2 1,1kW	189	160	184	255	213	8	161	9	8x45°
MB 20/8 T2 1,1kW	189	160	184	255	213	8	161	9	8x45°

Wiring diagram

DIAGRAM Nº 1

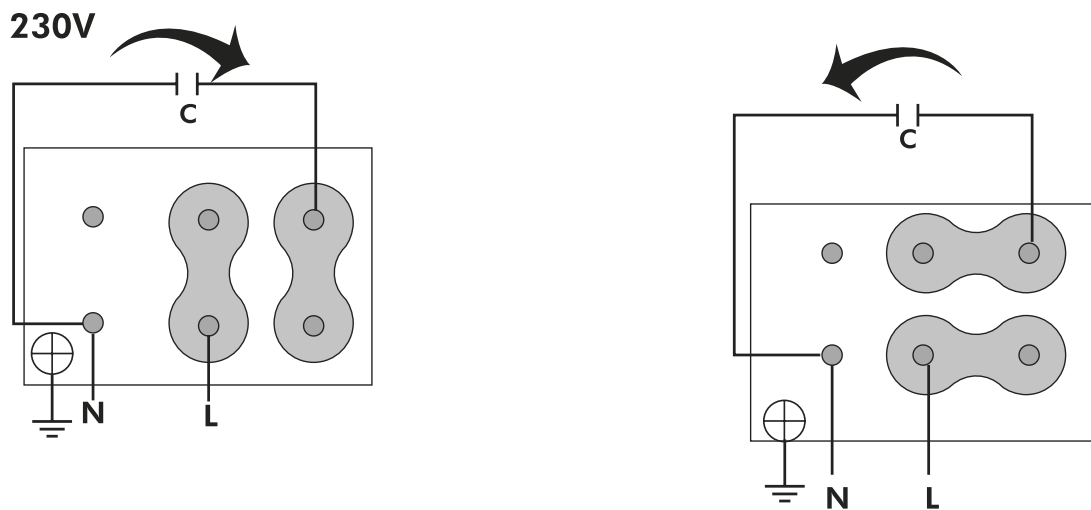
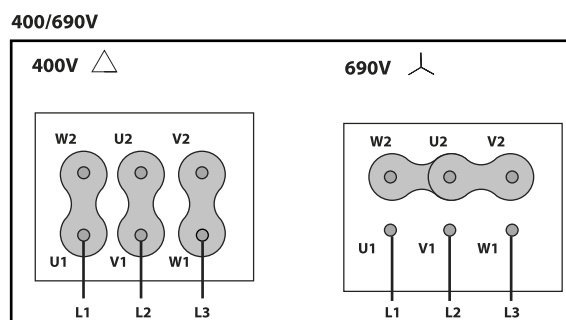
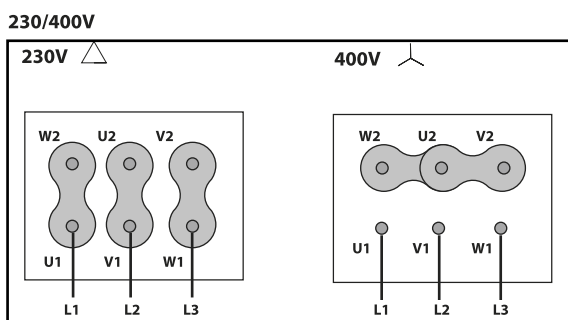


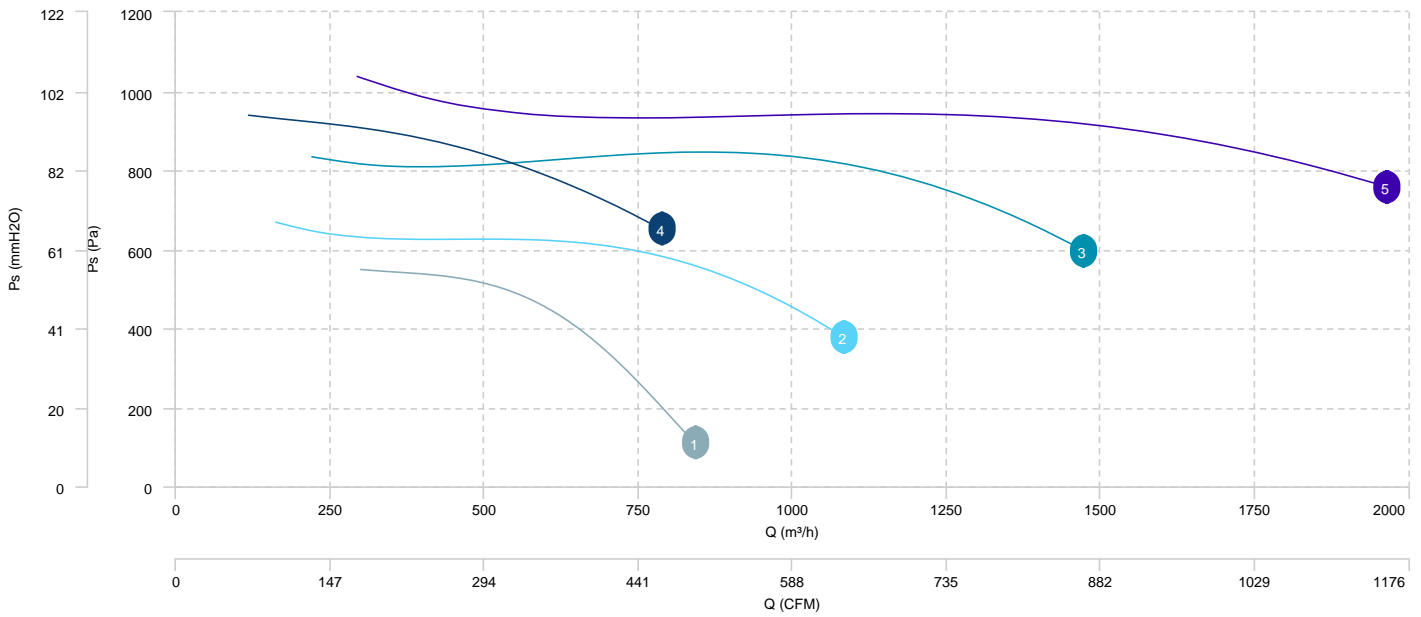
DIAGRAM Nº 2



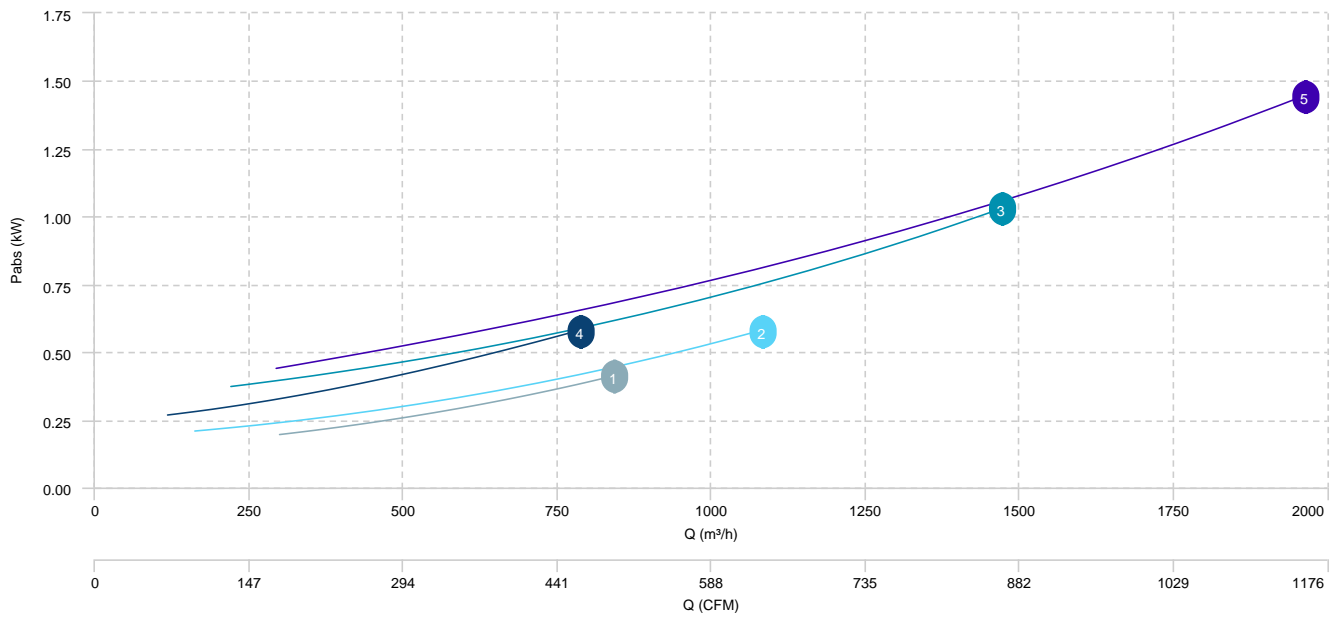
CHARACTERISTIC CURVE

- 1 MB 14/5 M2 0,25kW
- 2 MB 16/6 M2 0,37kW
- 3 MB 18/7 M2 0,75kW
- 4 MB 20/6 M2 0,37kW
- 5 MB 20/8 M2 1,1kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



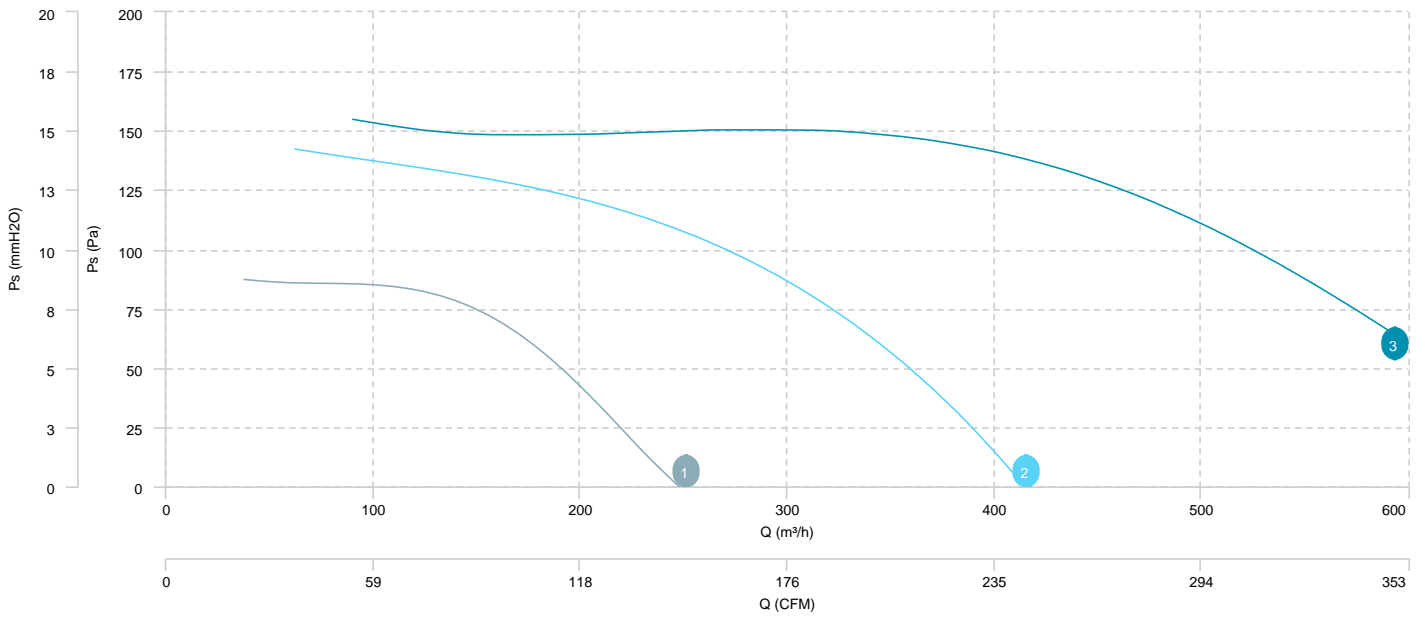
CENTRIFUGAL FANS: MEDIUM PRESSURE

1 MB 12/5 M4 0,08kW

2 MB 14/5 M4 0,08kW

3 MB 16/6 M4 0,08kW

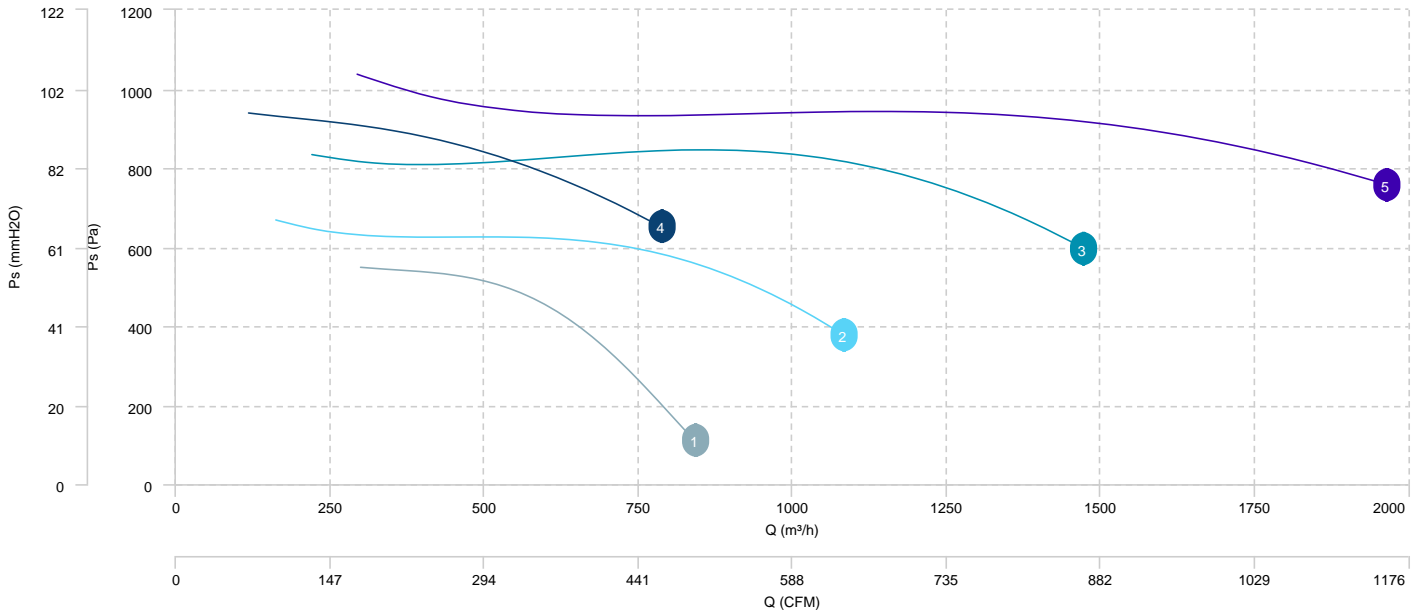
AIR FLOW - PRESSURE



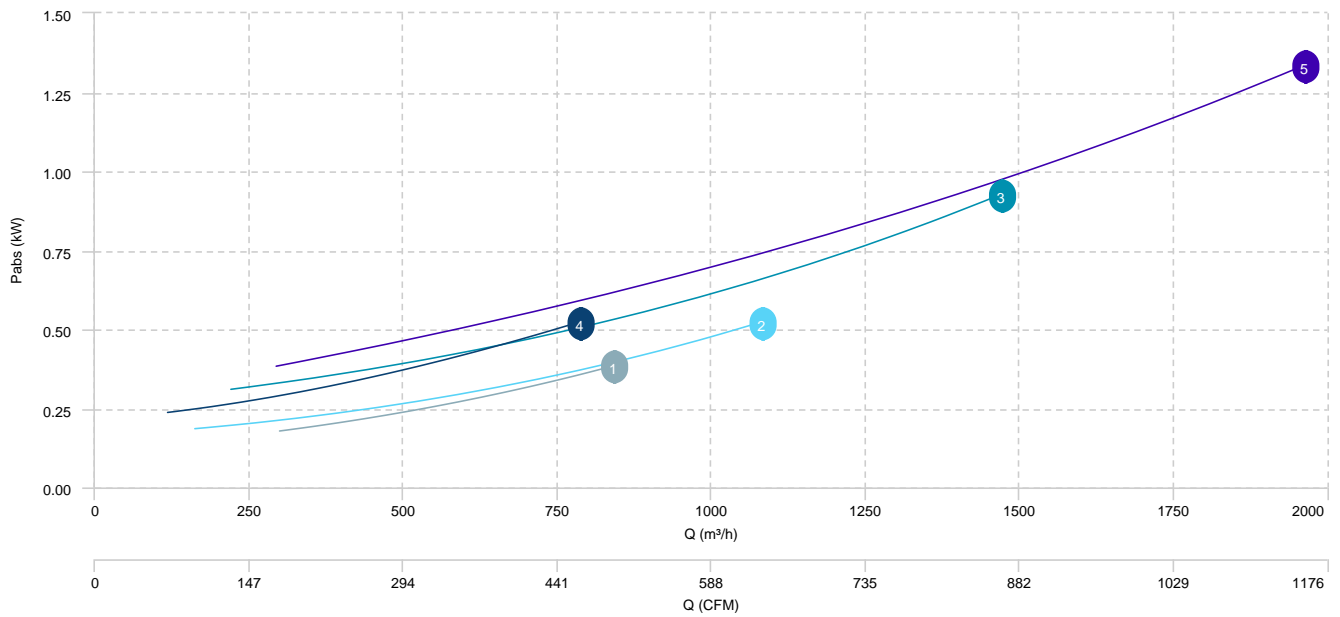
CENTRIFUGAL FANS: MEDIUM PRESSURE

- 1 MB 14/5 T2 0,25kW
- 2 MB 16/6 T2 0,37kW
- 3 MB 18/7 T2 0,75kW
- 4 MB 20/6 T2 0,37kW
- 5 MB 20/8 T2 1,1kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



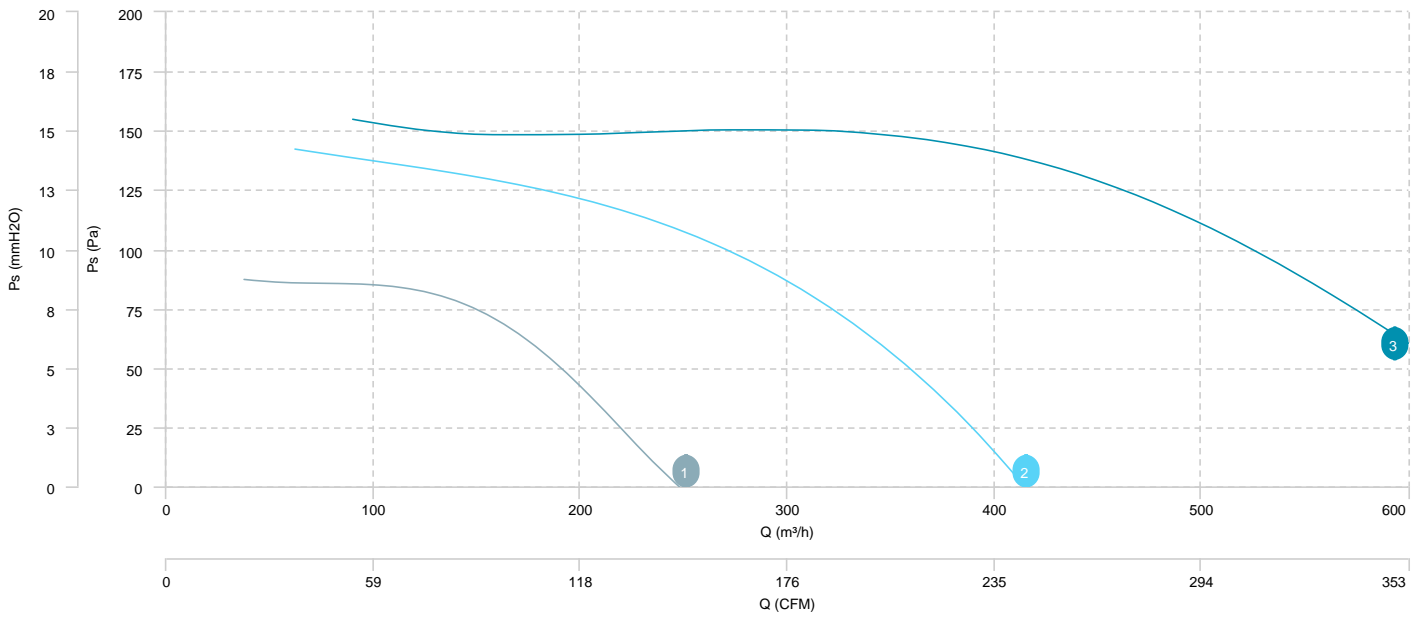
CENTRIFUGAL FANS: MEDIUM PRESSURE

1 MB 12/5 T4 0,08kW

2 MB 14/5 T4 0,08kW

3 MB 16/6 T4 0,08kW

AIR FLOW - PRESSURE



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 14/5 M2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MB 14/5 T2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MB 16/6 M2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MB 16/6 T2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MB 18/7 M2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MB 18/7 T2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MB 20/6 M2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MB 20/6 T2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MB 20/8 M2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91
MB 20/8 T2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91

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 12/5 M4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 12/5 T4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 14/5 M4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 14/5 T4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 16/6 M4 0,08kW	Inlet	49	62	68	69	74	75	71	68	79
MB 16/6 T4 0,08kW	Inlet	49	62	68	69	74	75	71	68	79

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 (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 14/5 M2 0,25kW	0,25	37,73	47,33	617,12	671,30	0,30	2800	1,00
MB 14/5 T2 0,25kW	0,25	40,62	50,44	612,14	672,24	0,28	2800	1,00
MB 16/6 M2 0,37kW	0,37	41,56	49,96	890,25	787,11	0,47	2800	1,00
MB 16/6 T2 0,37kW	0,37	46,55	55,30	878,63	787,31	0,41	2800	1,00
MB 18/7 M2 0,75kW	0,75	41,61	48,42	1.216,32	1.031,18	0,84	2800	1,00
MB 18/7 T2 0,75kW	0,75	47,11	54,34	1.179,73	1.031,87	0,72	2800	1,00
MB 20/6 M2 0,37kW	0,37	34,31	42,16	777,77	912,99	0,58	2800	1,00
MB 20/6 T2 0,37kW	0,37	38,10	46,34	742,86	919,35	0,50	2800	1,00
MB 20/8 M2 1,1kW	1,1	45,21	50,97	1.705,45	1.172,26	1,23	2820	1,00
MB 20/8 T2 1,1kW	1,1	48,95	54,94	1.698,07	1.171,90	1,13	2800	1,00

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.
- 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 air transport.
 - 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.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG 225, LG 315, RD 0, RD 45, RD 90, RD 135, RD 180, RD 225, RD 270, RD 315.

Accessories



AB



AC



AVR



AVS



BA-400



BAD



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	1,1	1.480	55	24	1
253200106	MB 22/9 T2 2,2kW	2800	7,97	4,58	2,2	2.890	65	30	1
253280106	MB 25/10 T2 2,2kW	2800	7,97	4,58	2,2	2.540	62	32	1
253290106	MB 25/10 T2 3kW	2870	10,3	5,92	3,00	3.360	66	38	1
253360106	MB 28/11 T2 4kW	2890	13,3	7,63	4,00	3.600	70	46	1

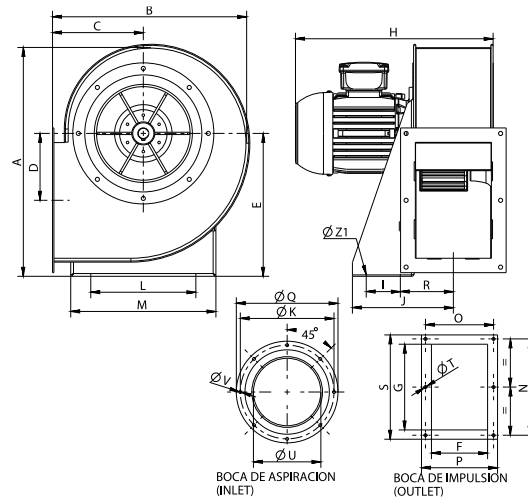
Three-phase motor / 4 poles

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	1400	1,86	1,07	0,37	1.830	59	21	1
253320106	MB 25/10 T4 0,75kW	1390	2,83	1,63	0,75	2.830	59	26	1
253410106	MB 28/11 T4 1,1kW	1400	4,33	2,49	1,1	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	447	382	181	134	280	140	216	403	50
MB 22/9 T2 2,2kW	447	382	181	134	280	140	216	439	50
MB 22/9 T4 0,37kW	447	382	181	134	280	140	216	403	50
MB 25/10 T2 2,2kW	496	420	197	142	310	165	254	463	74
MB 25/10 T2 3kW	496	420	197	142	310	165	254	498	74
MB 25/10 T4 0,75kW	496	420	197	142	310	165	254	427	74
MB 28/11 T2 4kW	549	468	216	154	340	180	300	529,5	95
MB 28/11 T4 1,1kW	549	468	216	154	340	180	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	202	282	228	315	290	205	229	306	114,5
MB 25/10 T2 3kW	202	282	228	315	290	205	229	306	114,5
MB 25/10 T4 0,75kW	202	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

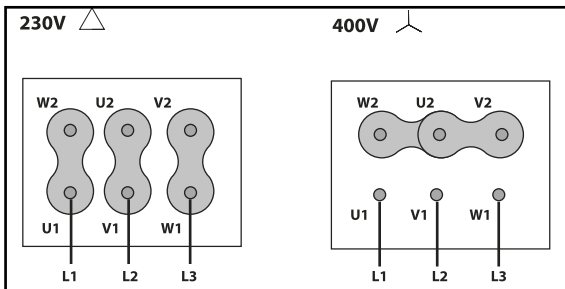
Model	S	TØ	UØ	VØ	Z1Ø
MB 22/9 T2 1,1kW	282	9	180	9	11
MB 22/9 T2 2,2kW	282	9	180	9	11
MB 22/9 T4 0,37kW	282	9	180	9	11
MB 25/10 T2 2,2kW	314	9	203	9	13
MB 25/10 T2 3kW	314	9	203	9	13

Model	S	TØ	UØ	VØ	Z1Ø
MB 25/10 T4 0,75kW	314	9	203	9	13
MB 28/11 T2 4kW	364	9	228	9	13
MB 28/11 T4 1,1kW	364	9	228	9	13

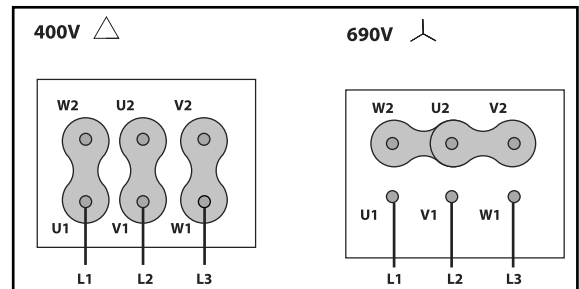
Wiring diagram

DIAGRAM N° 1

230/400V



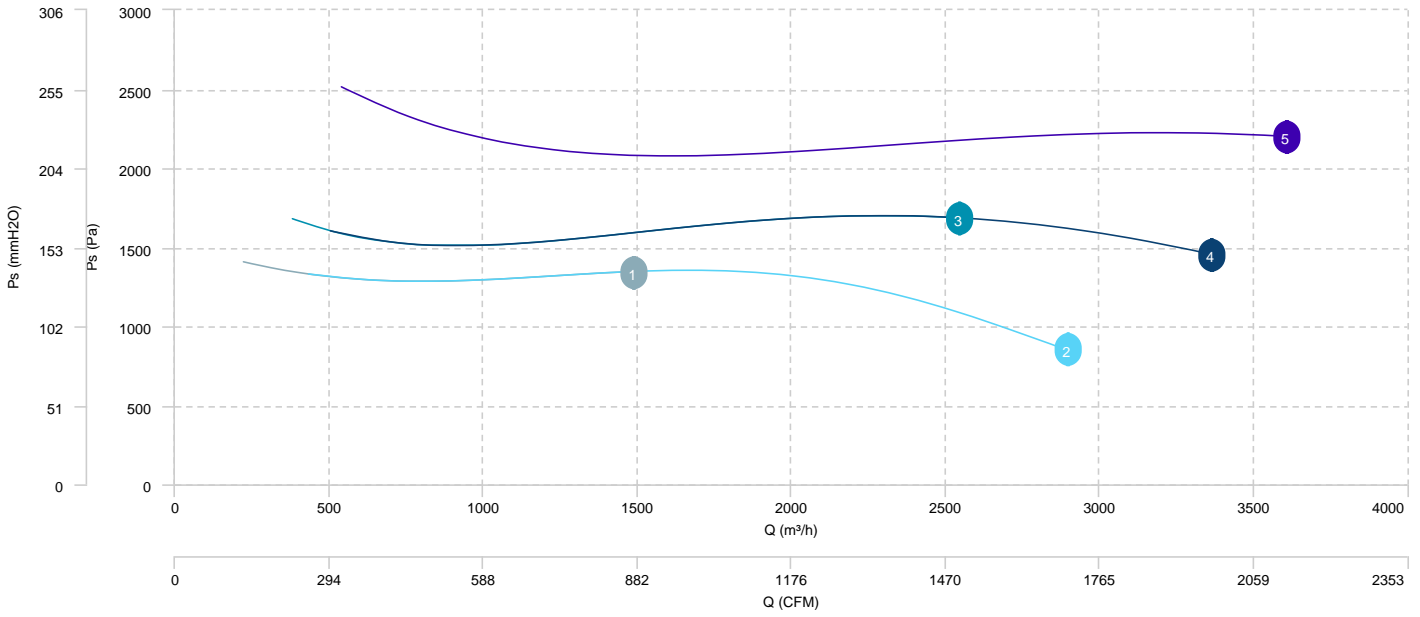
400/690V



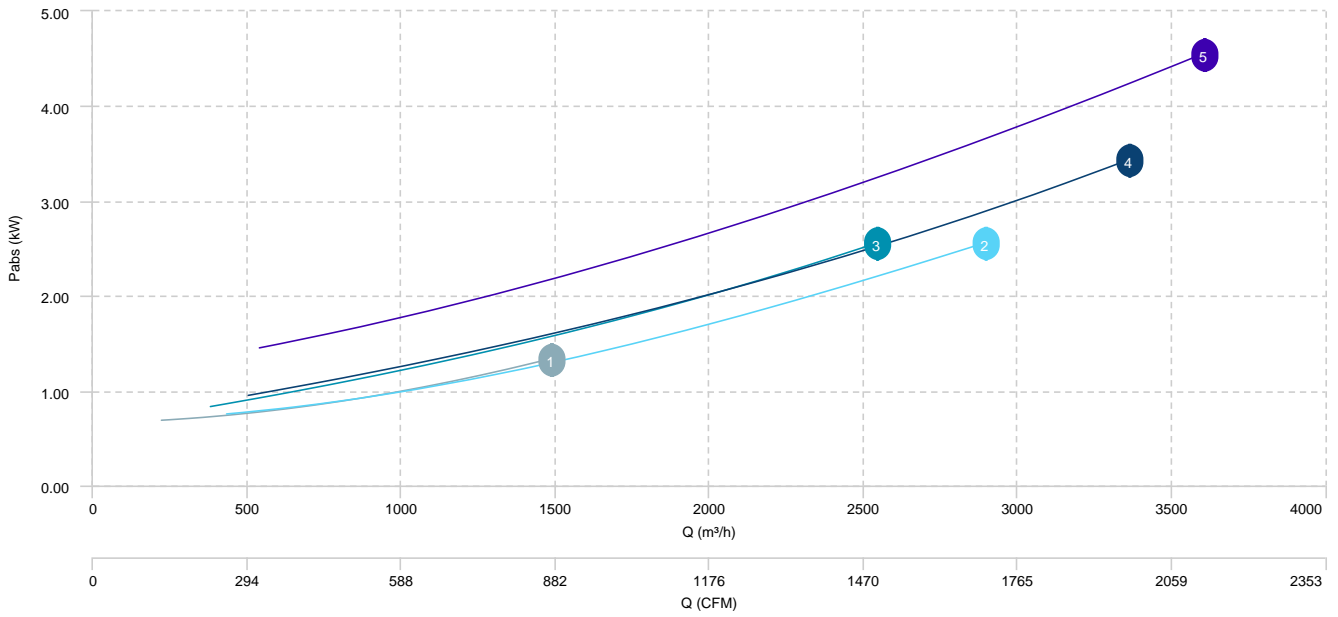
CHARACTERISTIC CURVE

- 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

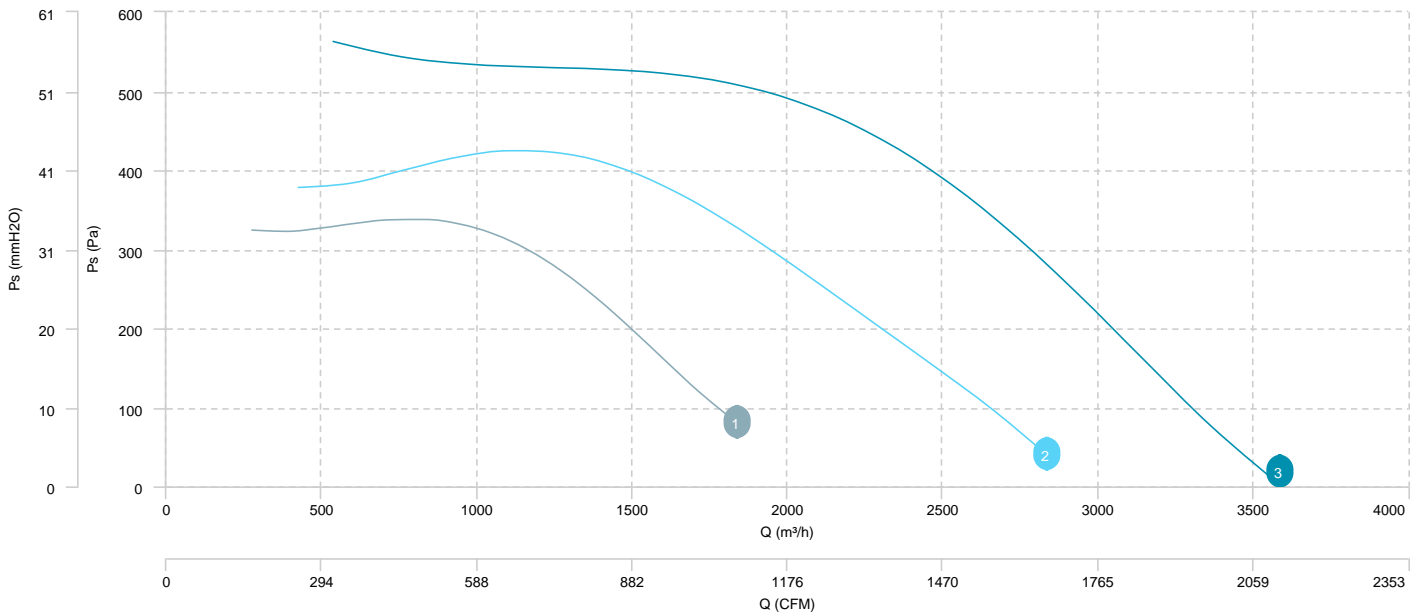


1 MB 22/9 T4 0,37kW

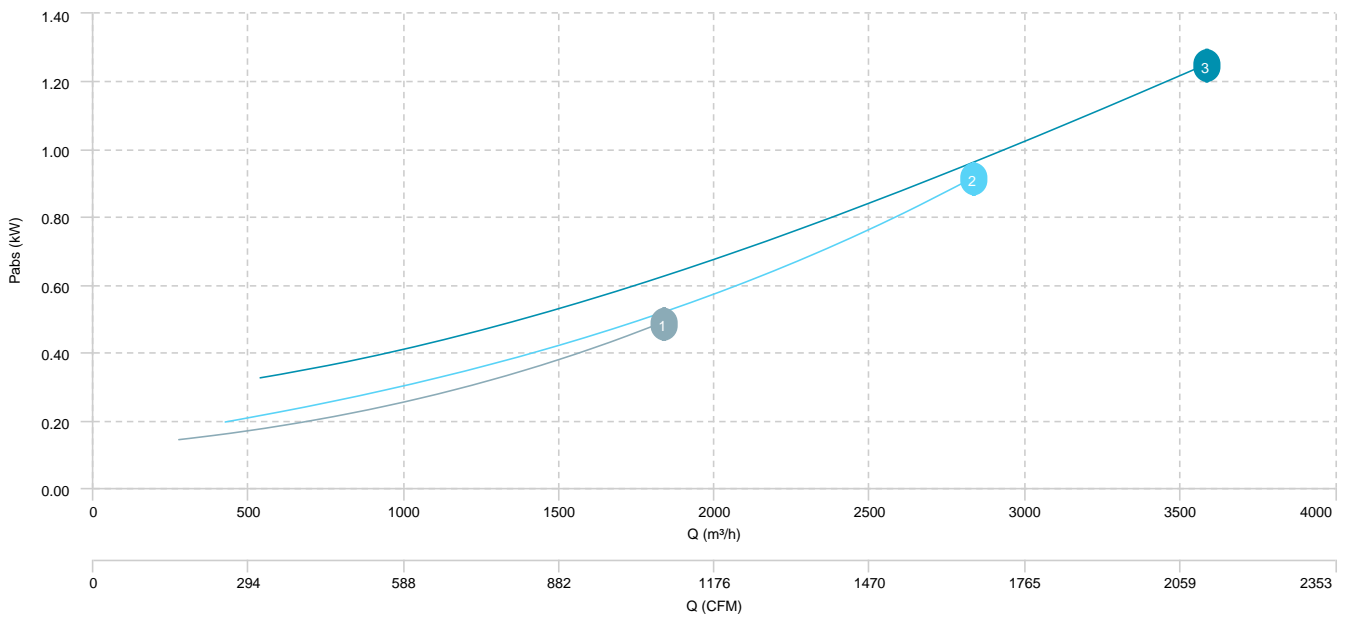
2 MB 25/10 T4 0,75kW

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 (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T2 1,1kW	1,1	45,04	50,58	1.480	1.457,24	1,33	2800	1,00
MB 22/9 T2 2,2kW	2,2	49,46	54,34	1.989,11	1.523,26	1,69	2800	1,00
MB 25/10 T2 2,2kW	2,2	51,60	55,36	2.540	1.862,44	2,55	2800	1,00
MB 25/10 T2 3kW	3	52,28	55,97	2.641,09	1.863,35	2,62	2870	1,00
MB 28/11 T2 4kW	4	53,20	55,38	3.600	2.408,58	4,55	2890	1,00

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T4 0,37kW	0,37	40,57	50,51	1.065,72	375,18	0,27	1400	1,00
MB 25/10 T4 0,75kW	0,75	44,72	53,64	1.376,11	464,94	0,39	1390	1,00
MB 28/11 T4 1,1kW	1,1	45,41	53,12	1.769,84	563,29	0,61	1400	1,00

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.
- 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 air transport.
- 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.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG 225, LG 315, RD 0, RD 45, RD 90, RD 135, RD 180, RD 225, RD 270, RD 315.

Accessories



AB



AC



AVR



AVS



BA-400



BAD



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	1,1	1.480	55	24	1
253200106	MB 22/9 T2 2,2kW	2800	7,97	4,58	2,2	2.890	65	30	1
253280106	MB 25/10 T2 2,2kW	2800	7,97	4,58	2,2	2.540	62	32	1
253290106	MB 25/10 T2 3kW	2870	10,3	5,92	3,00	3.360	66	38	1
253360106	MB 28/11 T2 4kW	2890	13,3	7,63	4,00	3.600	70	46	1

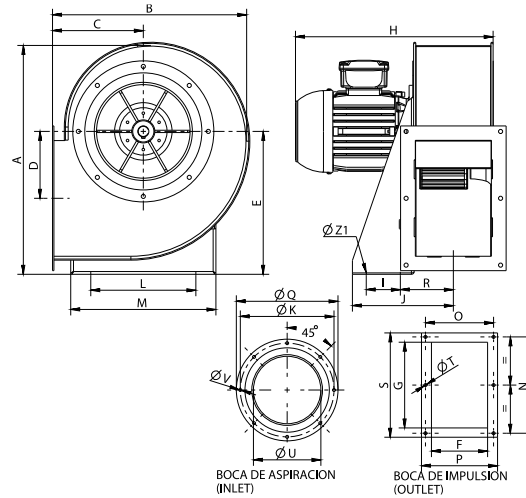
Three-phase motor / 4 poles

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	1400	1,86	1,07	0,37	1.830	59	21	1
253320106	MB 25/10 T4 0,75kW	1390	2,83	1,63	0,75	2.830	59	26	1
253410106	MB 28/11 T4 1,1kW	1400	4,33	2,49	1,1	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	447	382	181	134	280	140	216	403	50
MB 22/9 T2 2,2kW	447	382	181	134	280	140	216	439	50
MB 22/9 T4 0,37kW	447	382	181	134	280	140	216	403	50
MB 25/10 T2 2,2kW	496	420	197	142	310	165	254	463	74
MB 25/10 T2 3kW	496	420	197	142	310	165	254	498	74
MB 25/10 T4 0,75kW	496	420	197	142	310	165	254	427	74
MB 28/11 T2 4kW	549	468	216	154	340	180	300	529,5	95
MB 28/11 T4 1,1kW	549	468	216	154	340	180	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	202	282	228	315	290	205	229	306	114,5
MB 25/10 T2 3kW	202	282	228	315	290	205	229	306	114,5
MB 25/10 T4 0,75kW	202	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

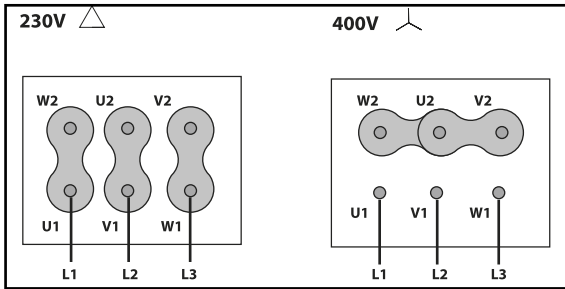
Model	S	TØ	UØ	VØ	Z1Ø
MB 22/9 T2 1,1kW	282	9	180	9	11
MB 22/9 T2 2,2kW	282	9	180	9	11
MB 22/9 T4 0,37kW	282	9	180	9	11
MB 25/10 T2 2,2kW	314	9	203	9	13
MB 25/10 T2 3kW	314	9	203	9	13

Model	S	TØ	UØ	VØ	Z1Ø
MB 25/10 T4 0,75kW	314	9	203	9	13
MB 28/11 T2 4kW	364	9	228	9	13
MB 28/11 T4 1,1kW	364	9	228	9	13

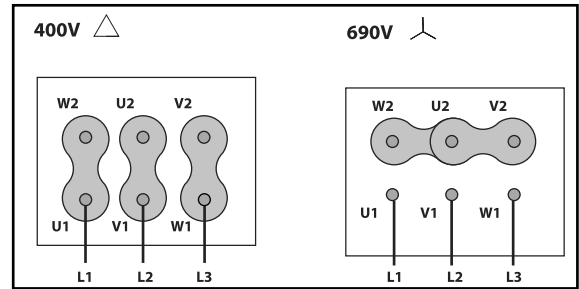
Wiring diagram

DIAGRAM N° 1

230/400V



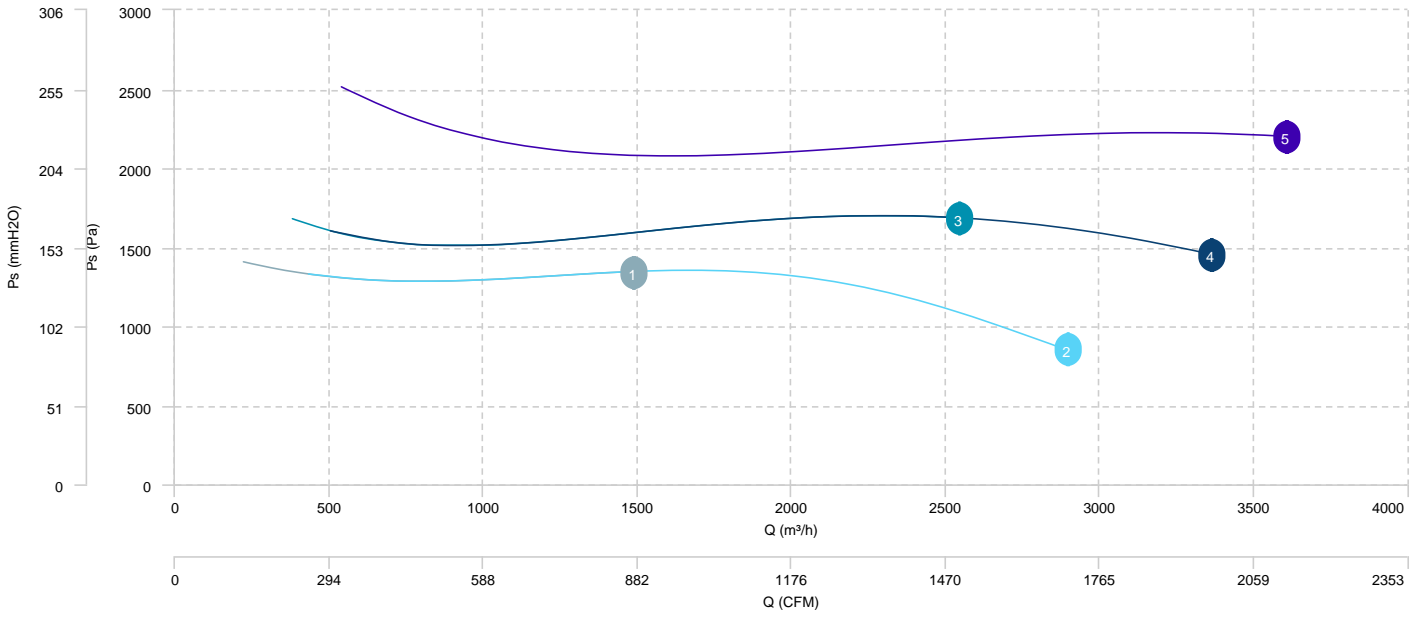
400/690V



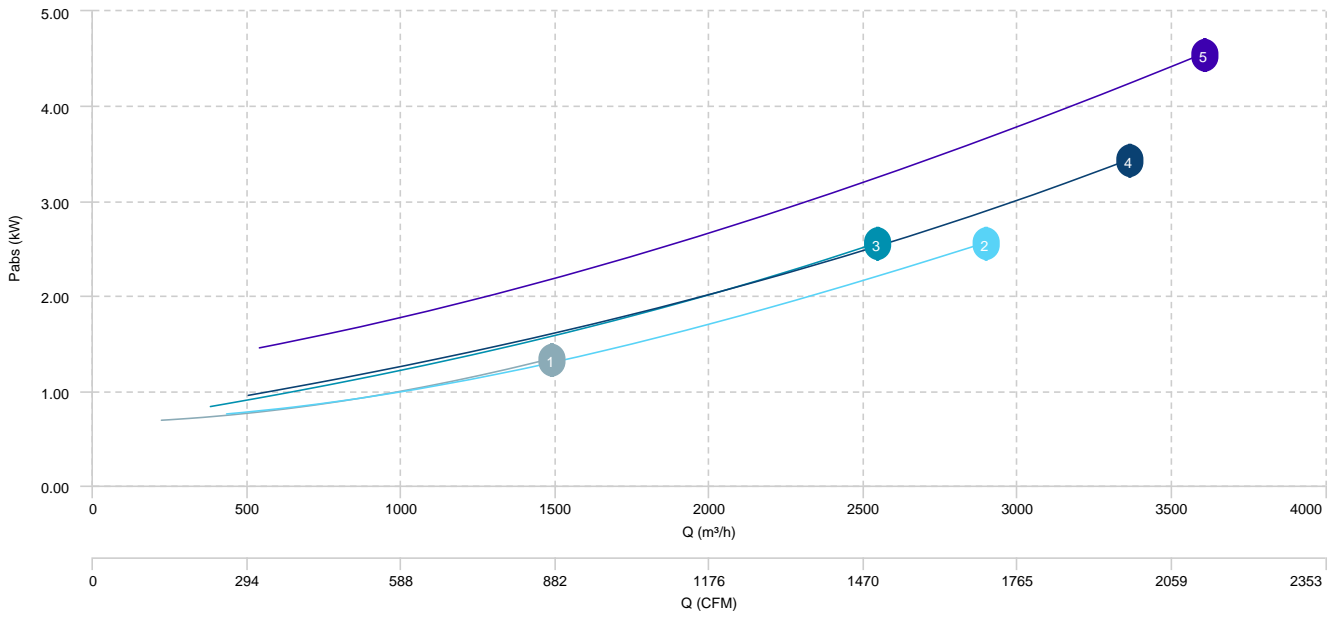
CHARACTERISTIC CURVE

- 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

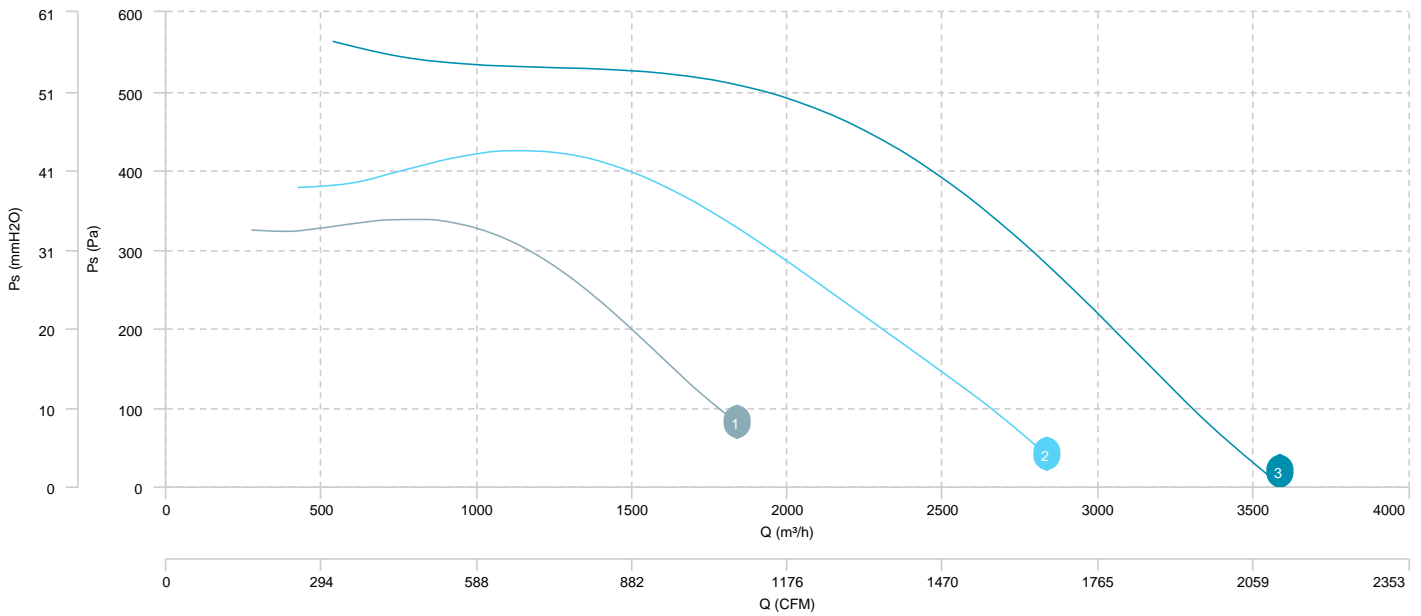


1 MB 22/9 T4 0,37kW

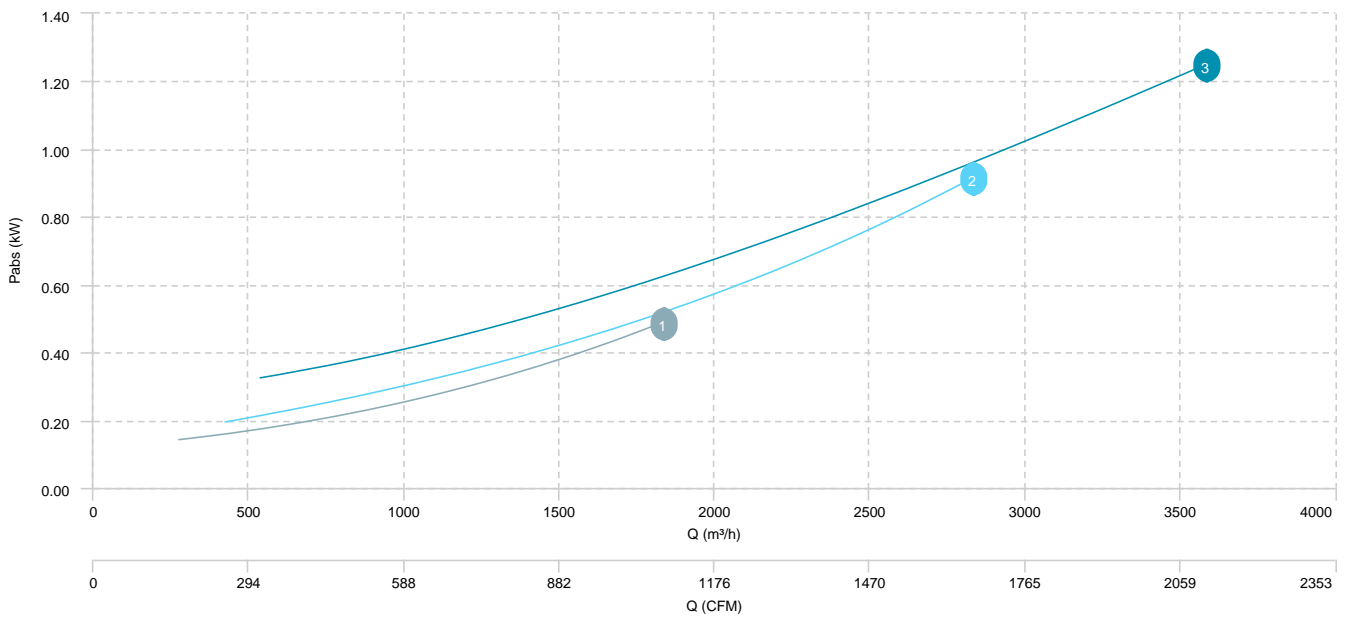
2 MB 25/10 T4 0,75kW

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 (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T2 1,1kW	1,1	45,04	50,58	1.480	1.457,24	1,33	2800	1,00
MB 22/9 T2 2,2kW	2,2	49,46	54,34	1.989,11	1.523,26	1,69	2800	1,00
MB 25/10 T2 2,2kW	2,2	51,60	55,36	2.540	1.862,44	2,55	2800	1,00
MB 25/10 T2 3kW	3	52,28	55,97	2.641,09	1.863,35	2,62	2870	1,00
MB 28/11 T2 4kW	4	53,20	55,38	3.600	2.408,58	4,55	2890	1,00

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 22/9 T4 0,37kW	0,37	40,57	50,51	1.065,72	375,18	0,27	1400	1,00
MB 25/10 T4 0,75kW	0,75	44,72	53,64	1.376,11	464,94	0,39	1390	1,00
MB 28/11 T4 1,1kW	1,1	45,41	53,12	1.769,84	563,29	0,61	1400	1,00

MB31/12-45/18



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.
- 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 air transport.
- 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.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG 225, LG 315, RD 0, RD 45, RD 90, RD 135, RD 180, RD 225, RD 270, RD 315.

Accessories



AB



AC



AVR



AVS



BA-400



BAD



EI



FS



INT



JE 45



RA



RBS



SFC

Technical data

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					
253420106	MB 31/12 T4 2,2kW	1430	8,07	4,64	2,2	5.400	63	54	1
253480106	MB 35/14 T4 3kW	1430	10,7	6,17	3,00	5.870	65	63	1
253490106	MB 35/14 T4 4kW	1440	14,5	8,32	4,00	8.020	64	69	1
253510121	MB 40/16 T4 5,5kW	1440	-	10,5	5,5	8.340	68	101	1
253510106	MB 40/16 T4 7,5kW	1440	-	14,1	7,5	10.570	72	110	1
253530120	MB 45/18 T4 7,5kW	1440	-	14,1	7,5	9.160	75	119	1
253530121	MB 45/18 T4 11kW	1460	-	21,2	11,00	12.500	76	190	1

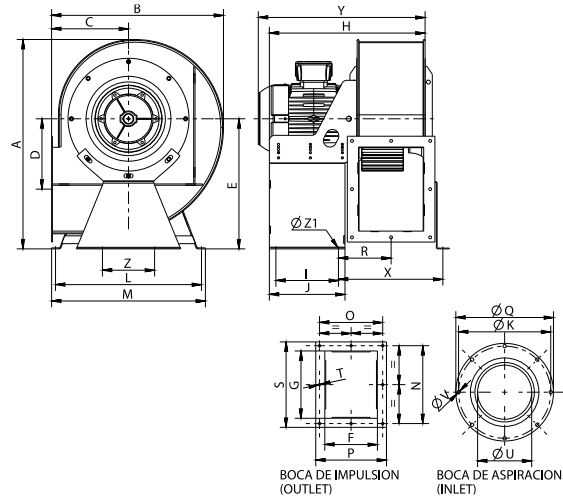
Three-phase motor / 6 poles

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					
253500106	MB 35/14 T6 1,1kW	910	4,83	2,78	1,1	5.200	58	53	1
253520106	MB 40/16 T6 1,5kW	940	6,45	3,71	1,5	5.650	59	94	1
253540106	MB 40/16 T6 2,2kW	940	10,3	5,94	2,2	7.530	59	94	1
253560106	MB 45/18 T6 2,2kW	940	10,3	5,94	2,2	6.060	64	112	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

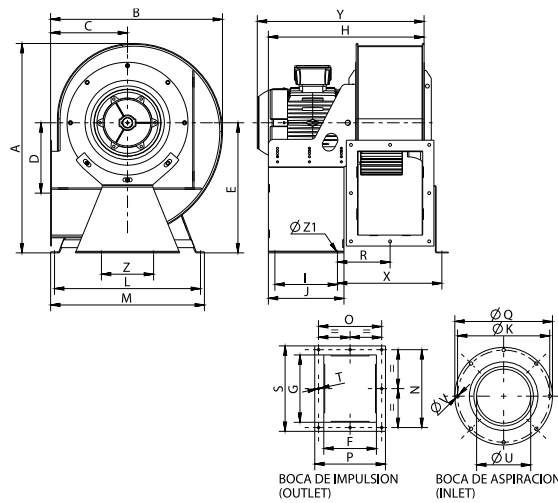


Model	A	B	C	D	E	F	G	H	I
MB 31/12 T4 2,2kW	640	531	249	180	406	198	319	538	240
MB 35/14 T4 3kW	715	587	270	242	451	224	280	564	240
MB 35/14 T4 4kW	715	587	270	242	451	224	280	564	240
MB 35/14 T6 1,1kW	715	587	270	242	451	224	280	564	240
MB 40/16 T4 5,5kW	796	652	295	271	499	250	320	595	240
MB 40/16 T4 7,5kW	796	652	295	271	499	250	320	595	240
MB 40/16 T6 1,5kW	796	652	295	271	499	250	320	595	240
MB 45/18 T4 7,5kW	887	730	329	305	553	280	360	791	250
MB 45/18 T4 11kW	887	730	329	305	553	280	360	791	400
MB 45/18 T6 2,2kW	887	730	329	305	553	280	360	791	250

Model	J	K	L	M	N	O	P	Q	R
MB 31/12 T4 2,2kW	290	354,5	457	482	360	240	274	382	171
MB 35/14 T4 3kW	290	394,5	449	474	318	266	300	422	184
MB 35/14 T4 4kW	290	394,5	449	474	318	266	300	422	184
MB 35/14 T6 1,1kW	290	394,5	449	474	318	266	300	422	184
MB 40/16 T4 5,5kW	290	438	560	590	370	300	336	464	202
MB 40/16 T4 7,5kW	290	438	560	590	370	300	336	464	202
MB 40/16 T6 1,5kW	290	438	560	590	370	300	336	464	202
MB 45/18 T4 7,5kW	300	485	602	632	404	328	356	515	207
MB 45/18 T4 11kW	300	485	602	632	404	328	356	515	207
MB 45/18 T6 2,2kW	300	485	602	632	404	328	356	515	207

Model	S	TØ	UØ	VØ	X	Y	Z	Z1
MB 31/12 T4 2,2kW	395	11	203	11	-	539,5	-	13

Model	S	TØ	UØ	VØ	X	Y	Z	Z1
MB 35/14 T4 3kW	356	11	228	11	-	565,75	-	13
MB 35/14 T4 4kW	356	11	228	11	-	600	-	13
MB 35/14 T6 1,1kW	356	11	228	11	-	540	-	13
MB 40/16 T4 5,5kW	406	11	257	11	400	667,75	200	13
MB 40/16 T4 7,5kW	406	11	257	11	400	707,75	200	13
MB 40/16 T6 1,5kW	406	11	257	11	400	612,75	200	13
MB 45/18 T4 7,5kW	436	11	289	11	415	726,75	200	13
MB 45/18 T4 11kW	436	11	289	11	438	802,75	200	13
MB 45/18 T6 2,2kW	436	11	289	11	415	631,75	200	13



Model	A	B	C	D	E	F	G	H	I
MB 40/16 T6 2,2kW	796	652	295	271	499	250	320	595	240

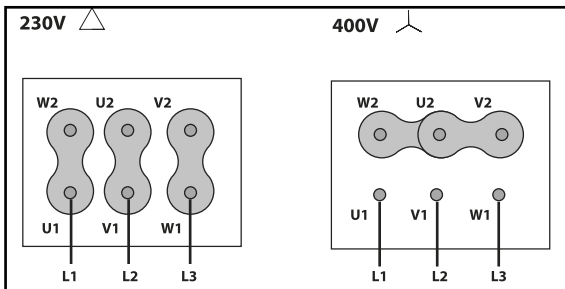
Model	J	K	L	M	N	O	P	Q	R
MB 40/16 T6 2,2kW	290	438	560	590	370	300	336	464	202

Model	S	TØ	UØ	VØ	X	Y	Z	Z1
MB 40/16 T6 2,2kW	406	11	257	11	400	612,75	200	13

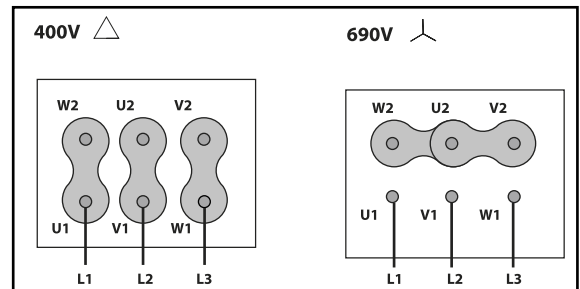
Wiring diagram

DIAGRAM N° 1

230/400V



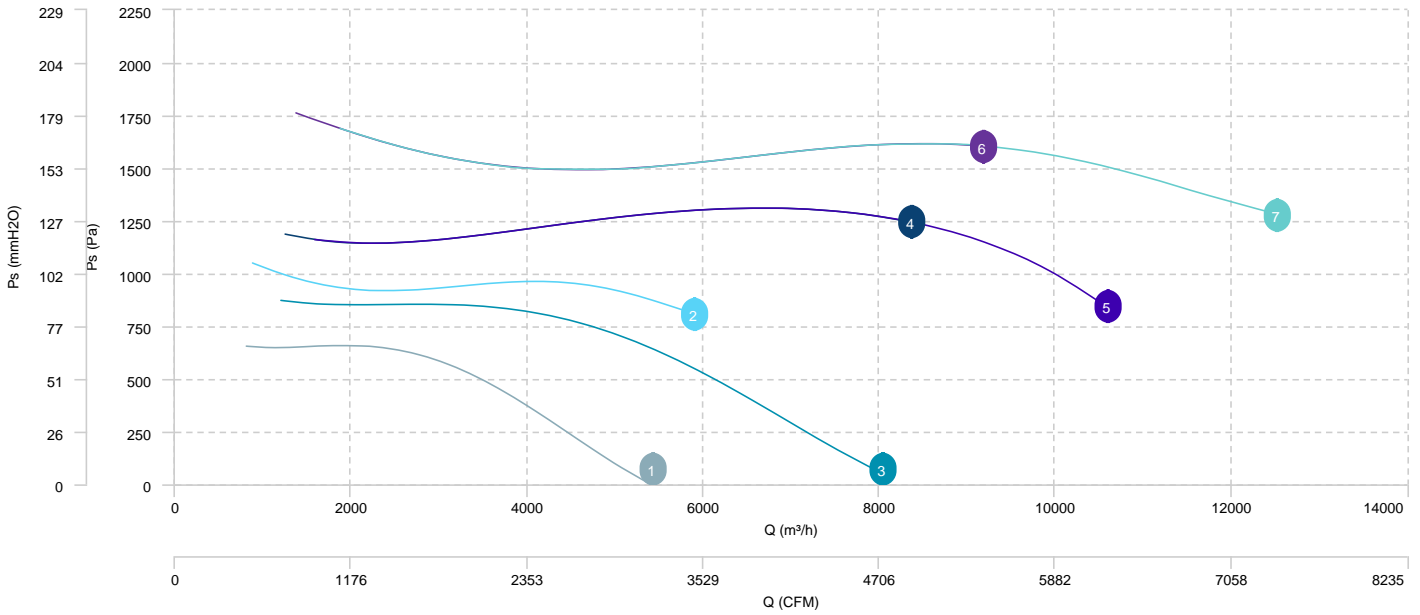
400/690V



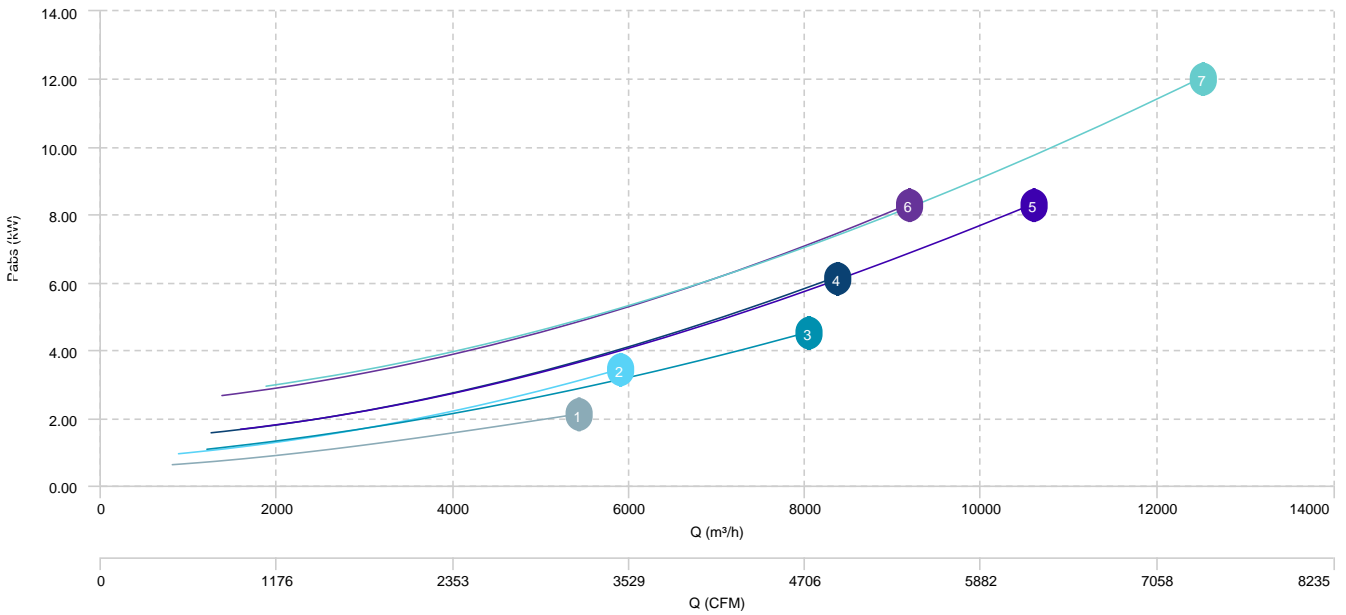
CHARACTERISTIC CURVE

1	MB 31/12 T4 2,2kW	2	MB 35/14 T4 3kW	3	MB 35/14 T4 4kW	4	MB 40/16 T4 5,5kW
5	MB 40/16 T4 7,5kW	6	MB 45/18 T4 7,5kW	7	MB 45/18 T4 11kW		

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



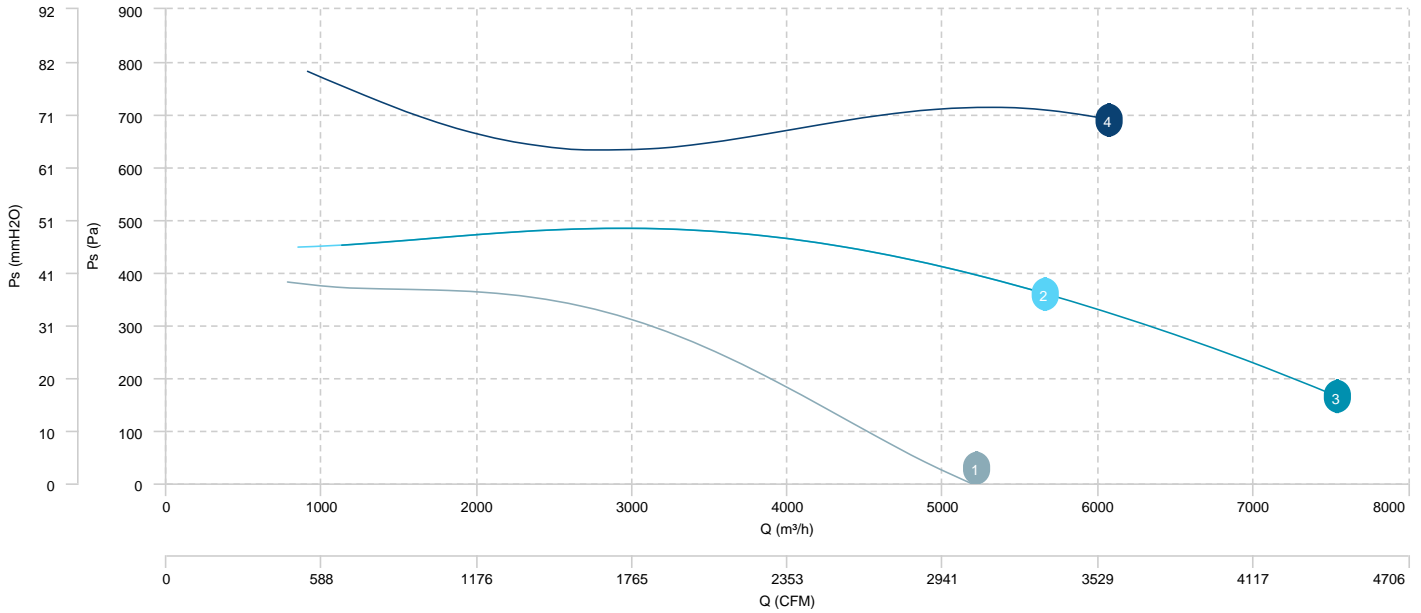
1 MB 35/14 T6 1,1kW

2 MB 40/16 T6 1,5kW

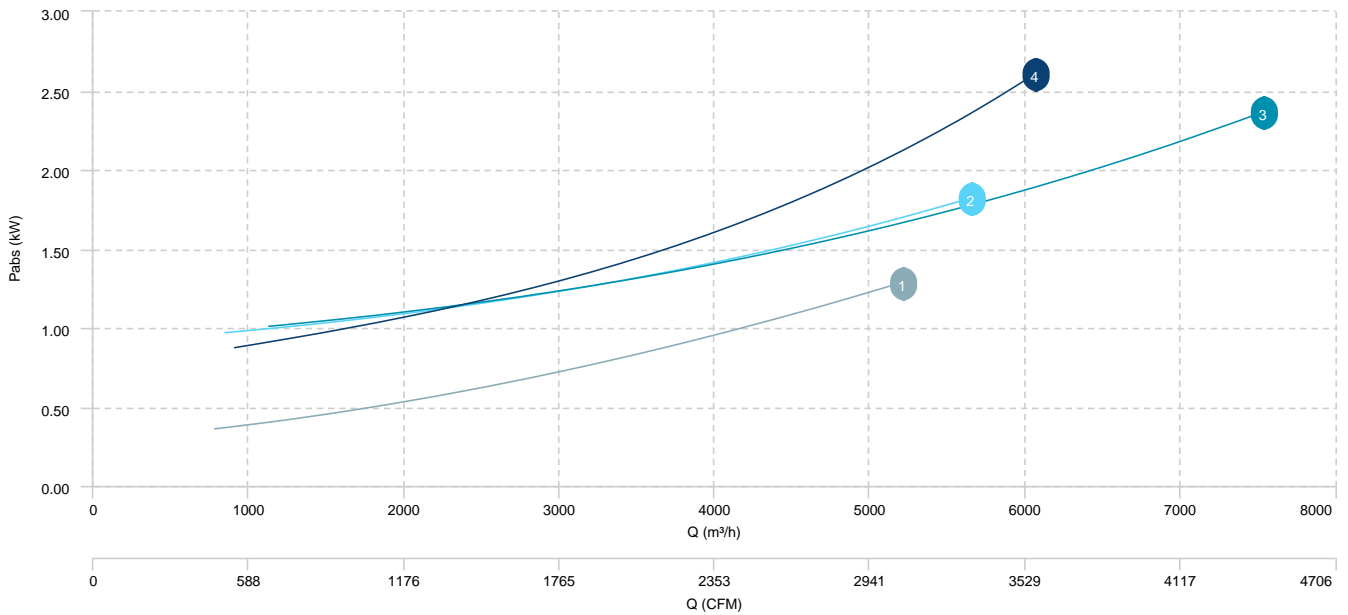
3 MB 40/16 T6 2,2kW

4 MB 45/18 T6 2,2kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

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 31/12 T4 2,2kW	Inlet	58	71	77	78	83	84	80	77	89
MB 35/14 T4 3kW	Inlet	60	73	79	80	85	86	82	79	91
MB 35/14 T4 4kW	Inlet	59	72	78	79	84	85	81	78	90
MB 40/16 T4 5,5kW	Inlet	63	76	82	83	88	89	85	82	94
MB 40/16 T4 7,5kW	Inlet	67	80	86	87	92	93	89	86	98
MB 45/18 T4 7,5kW	Inlet	70	83	89	90	95	96	92	89	101
MB 45/18 T4 11kW	Inlet	71	84	90	91	96	97	93	90	102

Sound / 6 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 35/14 T6 1,1kW	Inlet	53	66	72	73	78	79	75	72	84
MB 40/16 T6 1,5kW	Inlet	56	68	71	79	79	80	76	72	85
MB 40/16 T6 2,2kW	Inlet	56	68	71	79	79	80	76	72	85
MB 45/18 T6 2,2kW	Inlet	60	73	76	84	84	85	80	76	90

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 / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 31/12 T4 2,2kW	2,2	47,46	53,53	2.705,56	707,01	1,10	1430	1,00
MB 35/14 T4 3kW	3	60,09	63,60	4.988,18	1.215,55	2,80	1430	1,00
MB 35/14 T4 4kW	4	52,76	56,68	4.584,62	1.015,10	2,41	1440	1,00
MB 40/16 T4 5,5kW	5,5	66,21	67,73	7.948,60	1.731,90	5,77	1440	1,00
MB 40/16 T4 7,5kW	7,5	67,29	68,97	7.684,01	1.715,96	5,45	1440	1,00
MB 45/18 T4 7,5kW	7,5	61,59	62,13	9.160	1.988,41	8,29	1440	1,00
MB 45/18 T4 11kW	11	61,57	61,90	9.848,68	2.012,84	8,92	1460	1,00

ERP / 6 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 35/14 T6 1,1kW	1,1	47,21	54,49	2.931,66	417,92	0,71	910	1,00
MB 40/16 T6 1,5kW	1,5	50,94	55,70	5.484,56	592,39	1,77	940	1,00
MB 40/16 T6 2,2kW	2,2	53,14	57,65	6.266,46	589,07	1,95	940	1,00
MB 45/18 T6 2,2kW	2,2	56,78	60,83	5.546,04	851,70	2,30	940	1,00