



Range of direct-driven low pressure double inlet forward curve centrifugal fans. Casing and impeller manufactured from galvanized sheet steel. All models incorporate speed controllable external rotor motor, fitted with thermal protection and ball bearings.

Motors

IP44, Class F (models 7/7 and 7/9).

IP55, Class F (models 9/7 to 12/12).

IP54, Class F (models 12/12 1100W and 15/15 2200W).

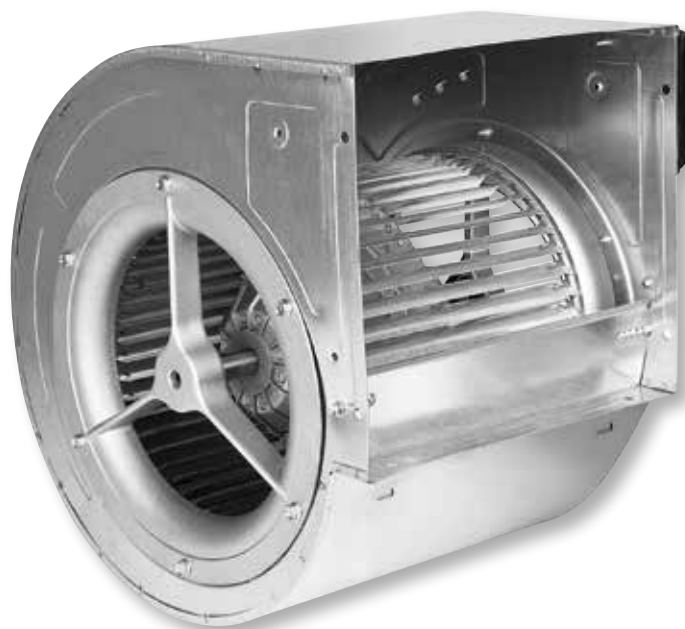
4 or 6 pole depending on version.

Electrical supply:

Single phase 230V-50Hz, suitable for speed control by voltage.

Three phase 230/400V-50Hz, suitable for speed control by tension and frequency inverter.

(See characteristics chart).



Impeller dynamically balanced

Impeller dynamically balanced, according to ISO 1940 standard, providing vibration free operation.



Anti-vibration mounts

All motors are fitted with support including rubber antivibration mounts reducing the noise transmitted to the installation.

LOW PRESSURE CENTRIFUGAL FANS WITH EXTERNAL ROTOR MOTOR

CBM-RE Series



TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Poles	Motor power (W)	Equivalence (mm)	Capacitor (µF/V)	Maximum absorbed current (A)	Maximum airflow (m³/h)	Sound pressure level * (dB(A))	Weight (kg)	Speed controller	
									REB	RMB

SINGLE PHASE MOTORS

CBM-7/7 72W 6P RE VR	6	72	180/180	2,5/450	0,6	1.440	56	6,5	1	1,5
CBM-7/7 147W 4P RE VR	4	147	180/180	7/450	1,3	1.650	59	6,9	2,5	1,5
CBM-7/7 300W 4P RE VR	4	300	180/180	8/450	2,1	2.380	66	7,2	2,5	3,5
CBM-7/9 72W 6P RE VR	6	72	180/240	2/450	0,9	1.850	60	6,5	1	1,5
CBM-7/9 300W 4P RE VR	4	300	180/240	7/450	2,2	2.600	67	9,8	2,5	3,5
CBM-9/7 200W 6P RE VR	6	200	240/180	5/450	1,4	2.090	63	13,5	2,5	1,5
CBM-9/7 245W 6P RE VR	6	245	240/180	7/450	1,7	2.430	63	13,5	2,5	3,5
CBM-9/7 300W 4P RE VR	4	300	240/180	20/450	2,7	2.270	64	14,5	5	3,5
CBM-9/7 420W 4P RE VR	4	420	240/180	15/450	3,2	2.600	68	14,5	5	3,5
CBM-9/9 200W 6P RE VR	6	200	240/240	5/450	1,7	2.570	62	14	2,5	3,5
CBM-9/9 245W 6P RE VR	6	245	240/240	4/450	2,2	2.850	64	14,1	2,5	3,5
CBM-9/9 300W 4P RE VR	4	300	240/240	15/450	2,8	2.480	64	16,7	5	3,5
CBM-9/9 550W 4P RE VR	4	550	240/240	20/450	4,3	3.470	71	17,7	5	8
CBM-10/8 245W 6P RE VR	6	245	270/200	9/450	2,8	3.000	64	14,9	5	3,5
CBM-10/8 515W 6P RE VR	6	515	270/200	18/450	3,7	4.060	73	19,5	5	8
CBM-10/8 550W 4P RE VR	4	550	270/200	20/450	4,2	2.900	68	18,6	5	8
CBM-10/10 245W 6P RE VR	6	245	270/270	9/450	2,8	3.370	64	16	5	3,5
CBM-10/10 515W 6P RE VR	6	515	270/270	18/450	3,6	4.450	69	17,5	5	8
CBM-10/10 600W 4P RE VR	4	600	270/270	20/450	4,6	3.300	68	20,8	5	8
CBM-12/9 515W 6P RE VR	6	515	320/240	18/450	4,1	4.195	65	21,5	5	8
CBM-12/12 515W 6P RE VR	6	515	320/240	18/450	4,2	4.540	66	22	5	8

Model	Poles	Motor power (W)	Equivalence (mm)	Maximum absorbed current (m³/h)		Max. airflow (m³/h)	Maximum temperature air (°C)	Sound pressure level * (dB(A))	Weight (kg)	Speed controller RMT	Inverter controller VFTM	
											Power supply	
				230V	400V						1/230V	3/400V

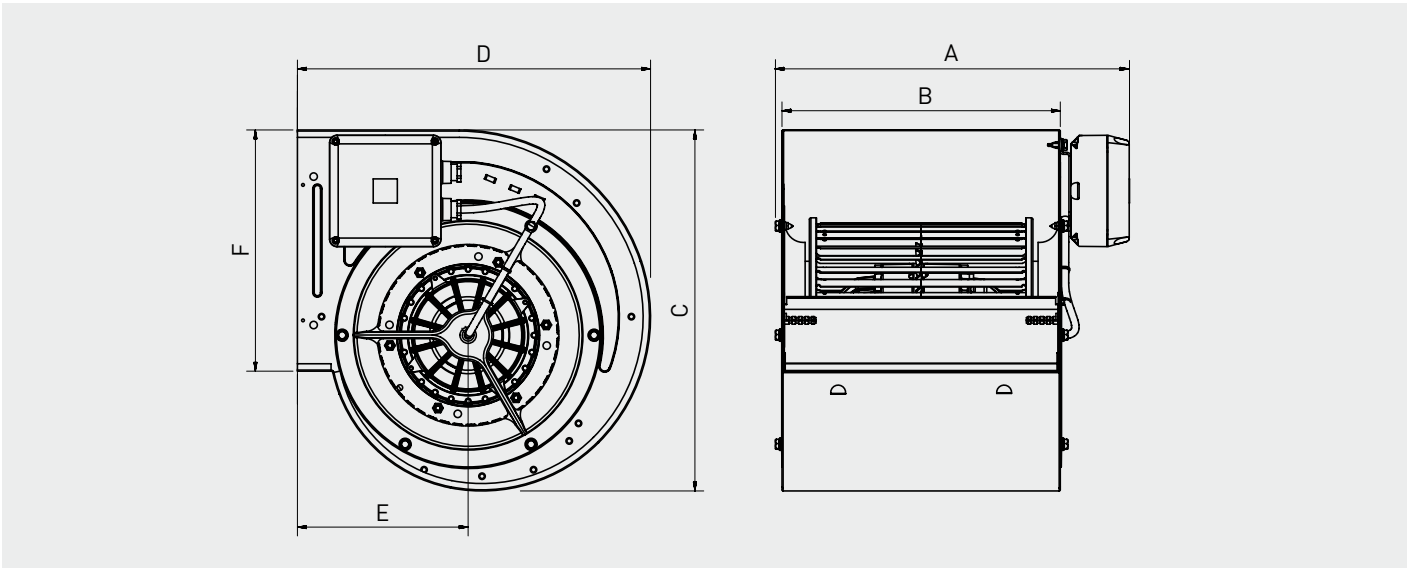
THREE PHASE MOTORS

CBM-7/7 250W 4P T RE VR	4	250	180/180	1,2	0,7	2.320	65	65	7,1	1,5	VFTM MONO 0,18	VFTM TRI 0,37
CBM-9/7 550W 4P T RE VR	4	550	240/180	3,1	1,8	3.350	40	70	14	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-9/9 245W 6P T RE VR	6	245	240/240	1,6	0,9	3.330	40	67	14,1	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-9/9 550W 4P T RE VR	4	550	240/240	5,5	3,2	4.830	40	75	14,1	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/8 245W 6P T RE VR	6	245	270/200	1,9	1,1	3.470	40	68	14,9	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-10/8 350W 6P T RE VR	6	350	270/200	2,8	1,6	4.330	40	73	14,9	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-10/8 550W 4P T RE VR	4	550	270/200	5,4	3,1	4.230	40	72	18,9	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/10 245W 6P T RE VR	6	245	270/270	1,9	1,1	3.920	40	67	16	1,5	VFTM MONO 0,37	VFTM TRI 0,37
CBM-10/10 350W 6P T RE VR	6	350	270/270	2,9	1,7	5.000	40	72	20	2,5	VFTM MONO 0,37	VFTM TRI 0,55
CBM-10/10 550W 4P T RE VR	4	550	270/270	5,0	2,9	4.010	40	70	20	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-10/10 750W 4P T RE VR	4	750	270/270	7,6	4,4	5.880	40	76	20	5	VFTM MONO 1,5	VFTM TRI 1,5
CBM-12/12 550W 6P T RE VR	6	550	320/240	5,0	2,9	6.490	40	73	22	5	VFTM MONO 1,1	VFTM TRI 1,1
CBM-12/12 1100W 6P T RE VR	6	1100	320/240	5,7	3,3	7.410	40	75	25	5	VFTM MONO 1,1	VFTM TRI 1,5
CBM-15/15 2200W 6P T RE VR K	6	2200	380/380	12,2	7	11.650	40	75	43	8	-	VFTM TRI 3

* Sound pressure levels in dB(A), measured at 1,5 meters at the fan inlet side in free field.

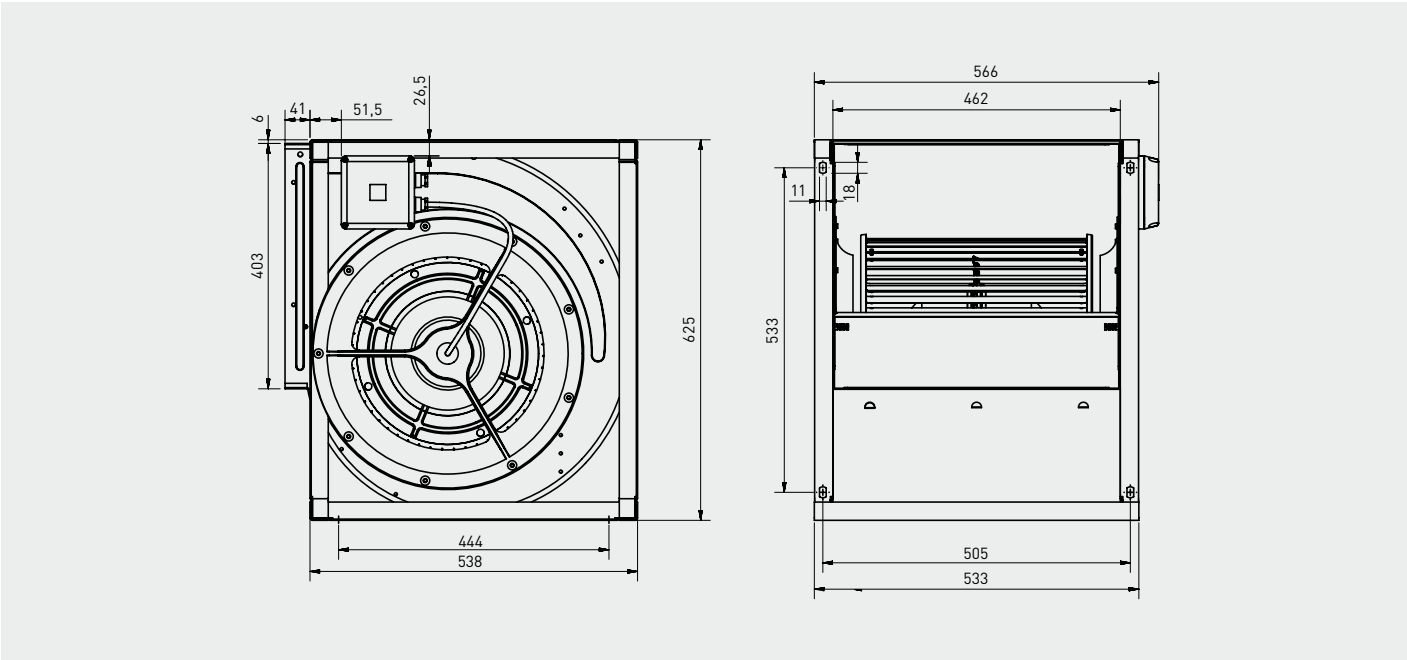


DIMENSIONS (mm)

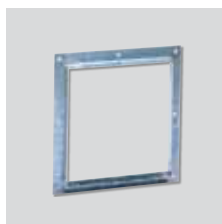


Model	A	B	C	D	E	F
CBM-7/7	296	233	328	309	145	207
CBM-7/9	363	300	328	309	145	207
CBM-9/7	316	233	390	381	184	260
CBM-9/9	382	300	390	381	184	260
CBM-10/8	340	267	443	423	200	288
CBM-10/10	407	333	443	423	200	288
CBM-12/9	382	311	521	490	229	341
CBM-12/12	466	396	521	490	229	341

DIMENSIONS MODEL CBM-15/15 2200 6PT RE VR K (mm)



MOUNTING ACCESSORIES



Outlet flange CBM

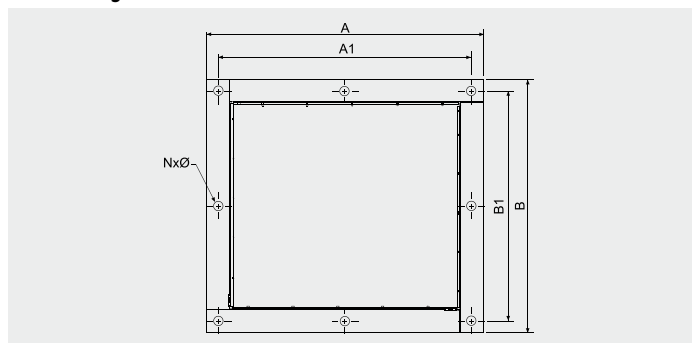


Mounting feet

Model	Outlet flange CBM	Mounting feet	Inlet guard
CBM-7/7	BRIDA DESCARGA CBM-7/7	PIE SOPORTE CBM-RE-7	DEF-CBM-RE-7
CBM-7/9	BRIDA DESCARGA CBM-7/9	PIE SOPORTE CBM-RE-7	DEF-CBM-RE-7
CBM-9/7	BRIDA DESCARGA CBM-9/7	PIE SOPORTE CBM-RE-9	DEF-CBM-RE-9
CBM-9/9	BRIDA DESCARGA CBM-9/9	PIE SOPORTE CBM-RE-9	DEF-CBM-RE-9
CBM-10/8	BRIDA DESCARGA CBM-10/8	PIE SOPORTE CBM-RE-10	DEF-CBM-RE-10
CBM-10/10	BRIDA DESCARGA CBM-10/10	PIE SOPORTE CBM-RE-10	DEF-CBM-RE-10
CBM-12/9	BRIDA DESCARGA CBM-12/9	PIE SOPORTE CBM-RE-12	DEF-CBM-RE-12
CBM-12/12	BRIDA DESCARGA CBM-12/12	PIE SOPORTE CBM-RE-12	DEF-CBM-RE-12

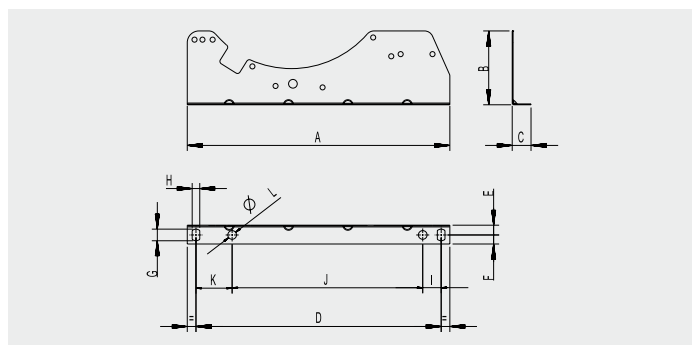
ACCESSORIES DIMENSIONS (mm)

Outlet flange CBM



Model	A	A1	B	B1	NxØ (mm)
BRIDA DESCARGA CBM-7/7	289	264	265	240	8x9
BRIDA DESCARGA CBM-7/9	314	297	253	231	8x9
BRIDA DESCARGA CBM-9/7	273	253	302	280	8x9
BRIDA DESCARGA CBM-9/9	360	328	315	285	8x10
BRIDA DESCARGA CBM-10/8	314	293	339	316	8x9
BRIDA DESCARGA CBM-10/10	380,5	359	339	316	8x9
BRIDA DESCARGA CBM-12/9	362	341	394,5	374	8x9
BRIDA DESCARGA CBM-12/12	447	426	394,5	374	8x9

Mounting feet



Model	A	B	C	D	E	F	G	H	I	J	K	L
7/	246	39	26	225	14	12	16	11	15	195	15	12
9/	320	89	26	307	13	13	16	11	-	-	35,7	10,5
10/	363	80	26	339	13,5	12,5	16	10,5	25,5	263,5	50	12
12/	430	115	26	407	13,5	12,5	16	10,5	48	333,5	25,5	12

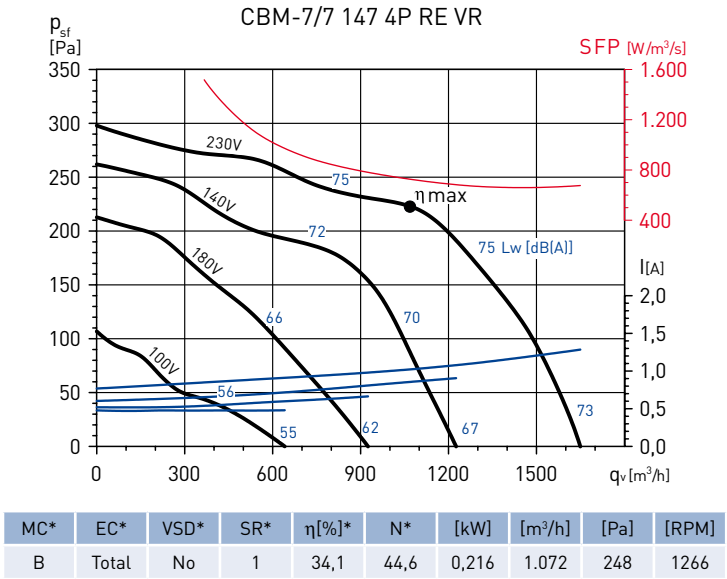


PERFORMANCE CURVES

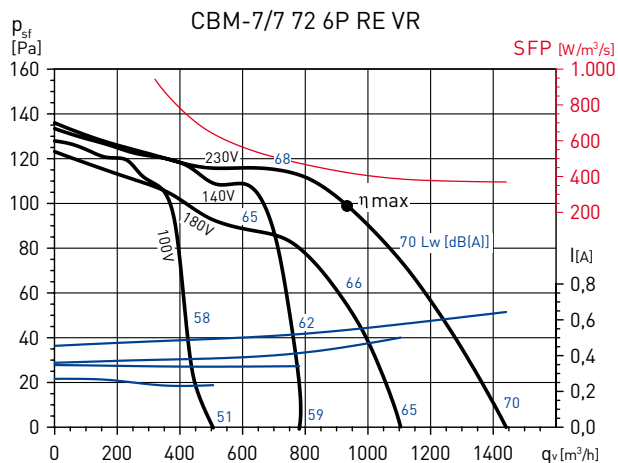
- q_v : Airflow in m^3/h .
- p_{st} : Static pressure in Pa.
- SFP: Specific fan power in $W/m^3/s$.
- I: Absorbed power A.
- LW: Sound power levels, at inlet, in dB(A).
- Measurement category: B.
- Efficiency category: total.
- Fan efficiency without speed control.
- Airflow data in accordance with ISO 5801.

MC	Measurement category
EC	Efficiency category
VSD	Speed control: supplied with the fan
SR	Specific ratio
η [%]	Efficiency
N	Efficiency grade
[kW]	Absorbed power
[m^3/h]	Airflow
[Pa]	Static pressure
[RPM]	Speed

EXAMPLE CURVE

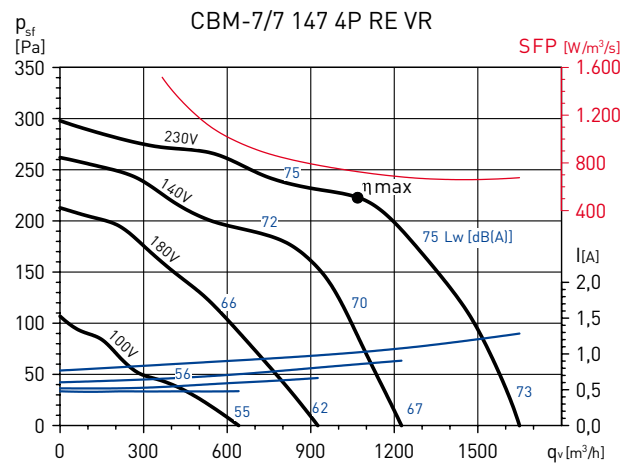


PERFORMANCE CURVES - Single phase motor



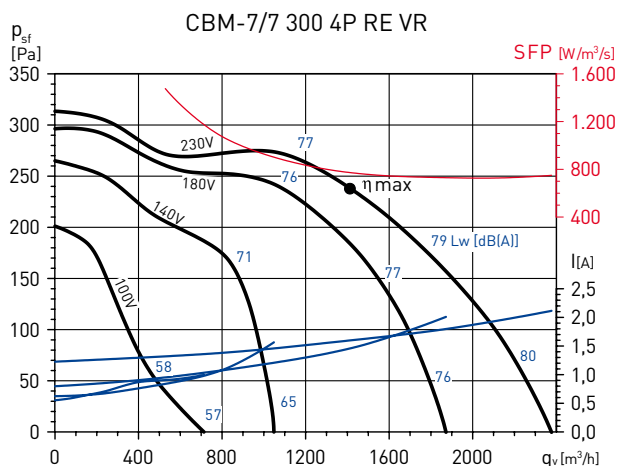
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	27,7	40,1	0,110	933	117	883

* See example curve.



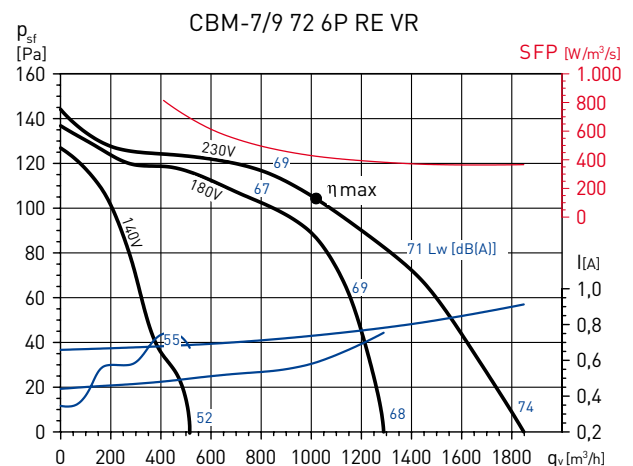
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	34,1	44,6	0,216	1.072	248	1266

* See example curve.



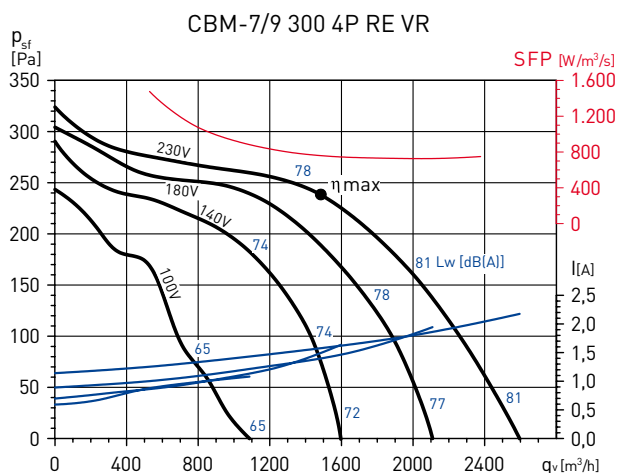
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	36,2	45,8	0,303	1.417	279	1387

* See example curve.



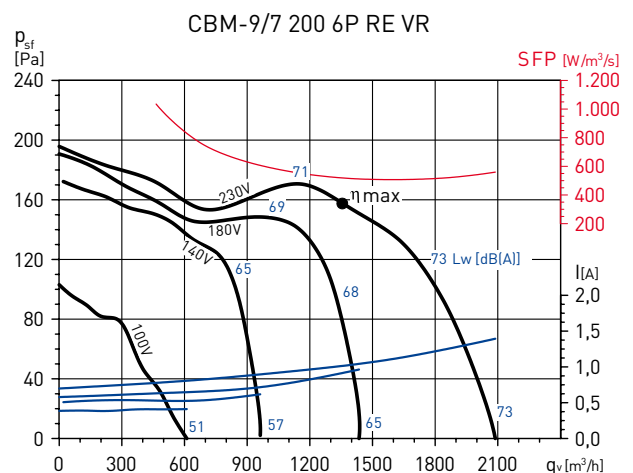
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	27,4	39,5	0,120	1.020	116	920

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	34,6	44,1	0,314	1.483	264	1358

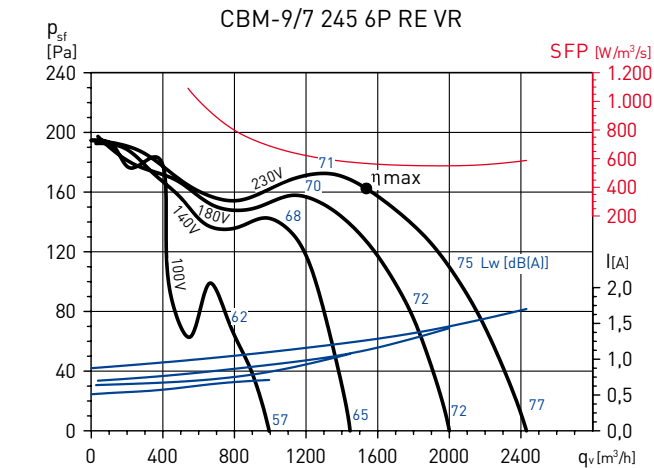
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	35,4	46,2	0,195	1.356	183	892

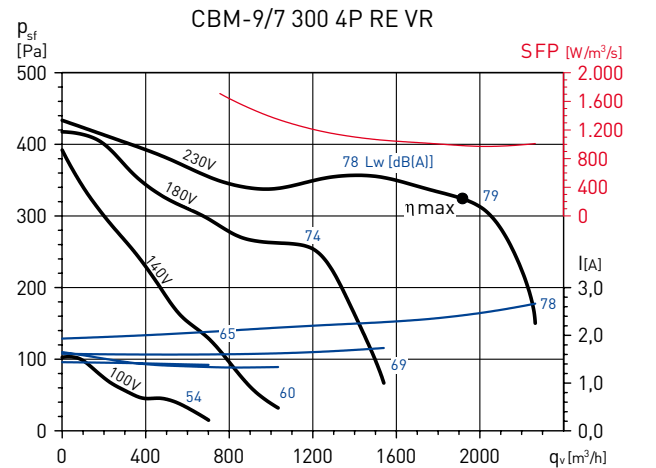
* See example curve.

PERFORMANCE CURVES - Single phase motor



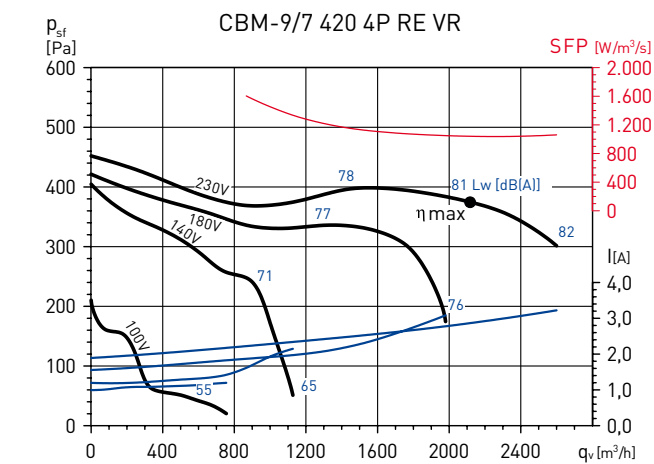
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	34,1	44,3	0,241	1.534	193	907

* See example curve.



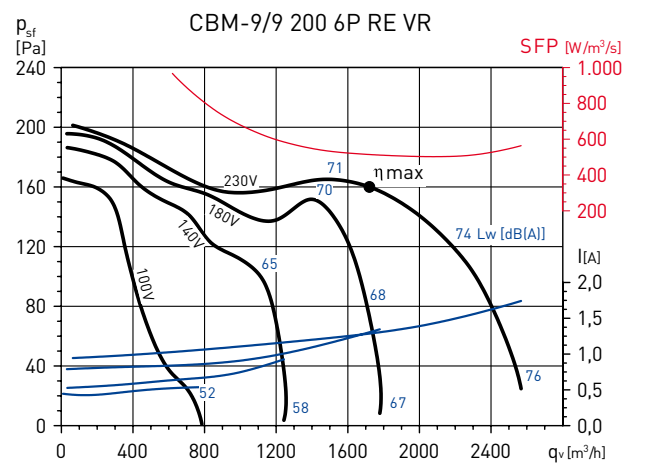
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	37,9	46,0	0,524	1.920	375	1278

* See example curve.



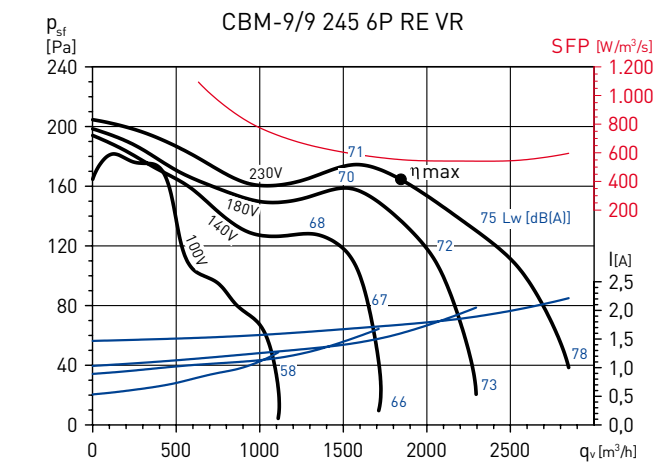
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,3	49,0	0,612	2.118	429	1377

* See example curve.



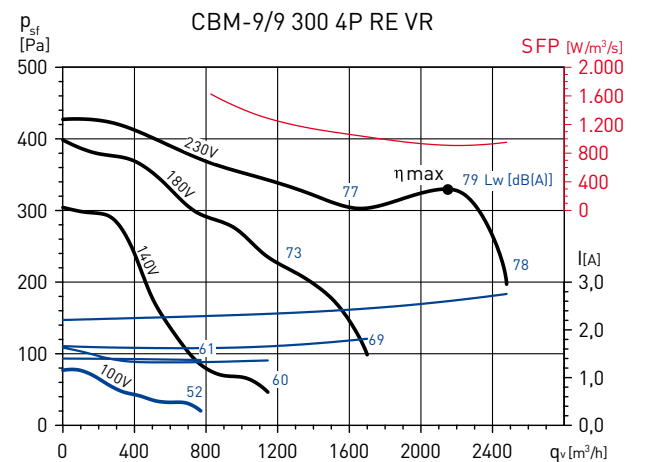
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	35,9	46,1	0,246	1.724	184	898

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	34,7	44,5	0,282	1.843	192	914

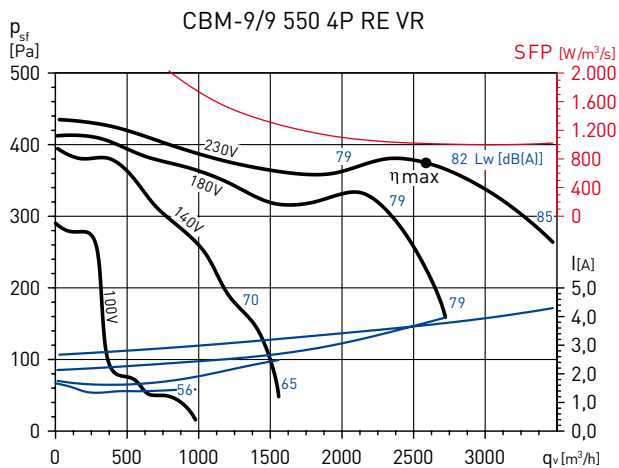
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	40,0	48,0	0,545	2.157	367	1277

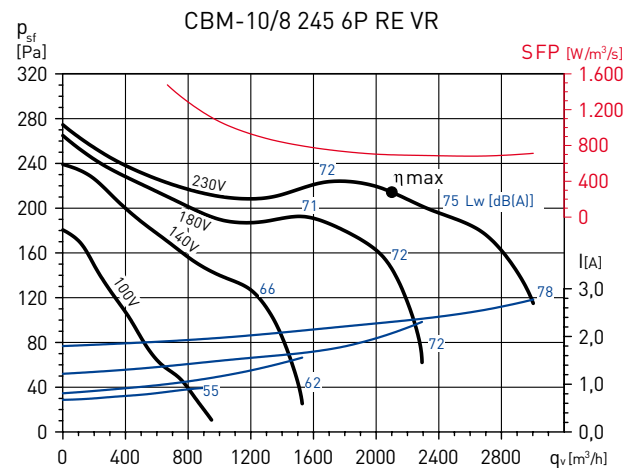
* See example curve.

PERFORMANCE CURVES - Single phase motor



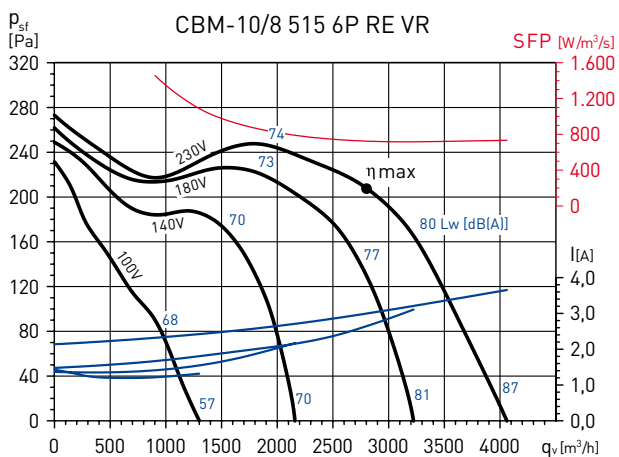
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,8	49,0	0,730	2.588	424	1387

* See example curve.



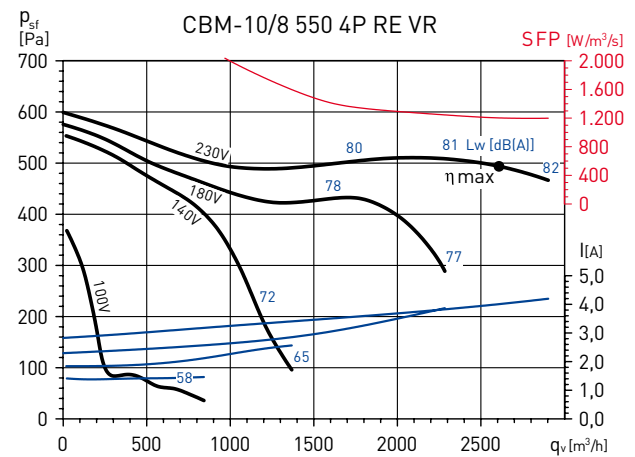
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	35,5	44,3	0,405	2.099	247	905

* See example curve.



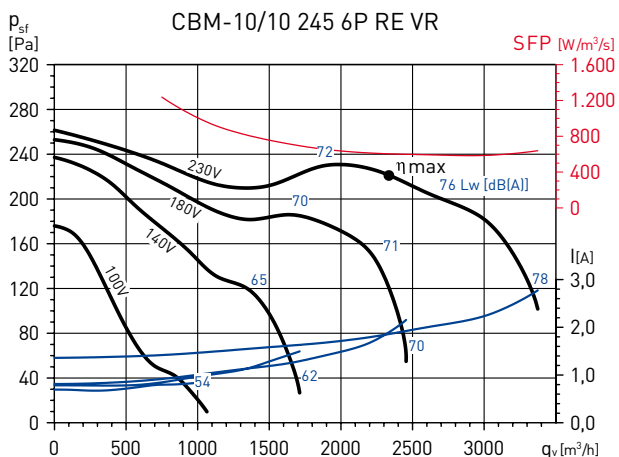
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	0	37,1	45,0	0,564	2.805	269	916

* See example curve.



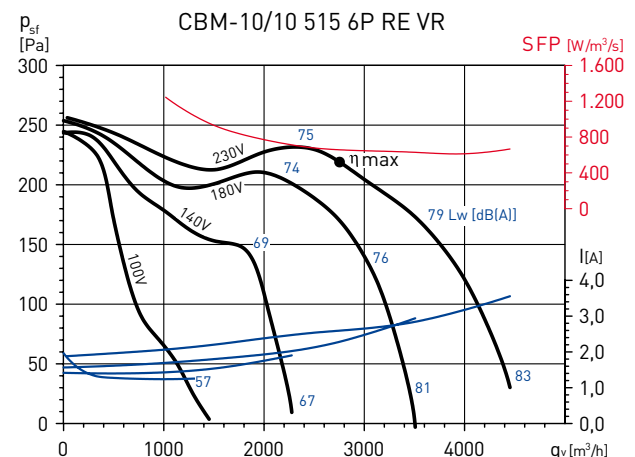
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	45,1	51,8	0,872	2.610	542	1353

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,0	49,9	0,391	2.334	248	905

* See example curve.

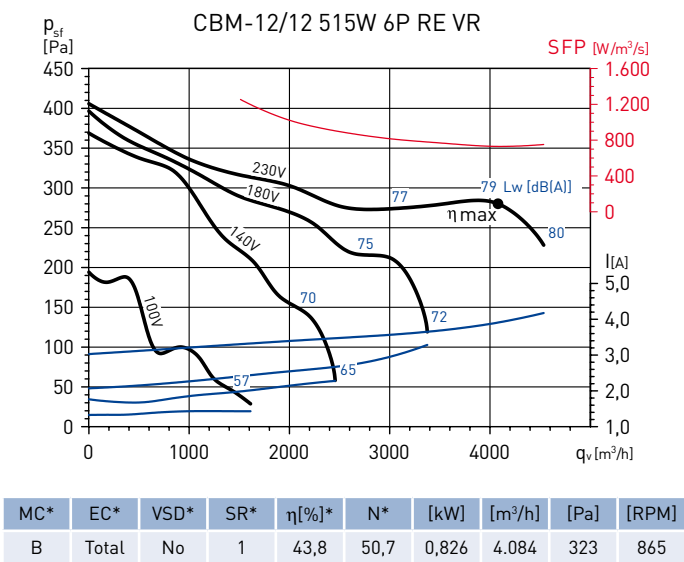
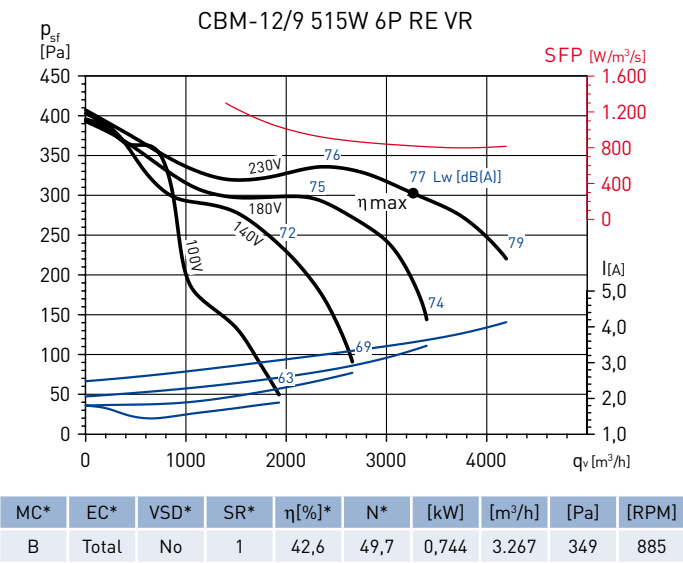
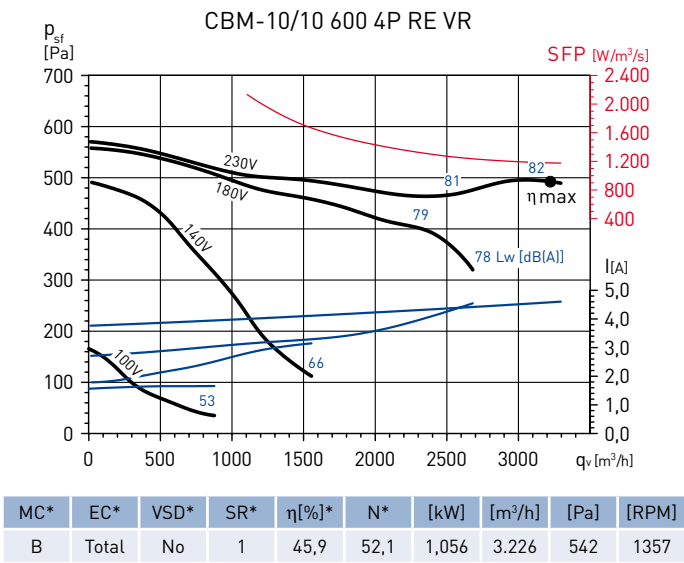


MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	38,7	46,9	0,500	2.751	253	925

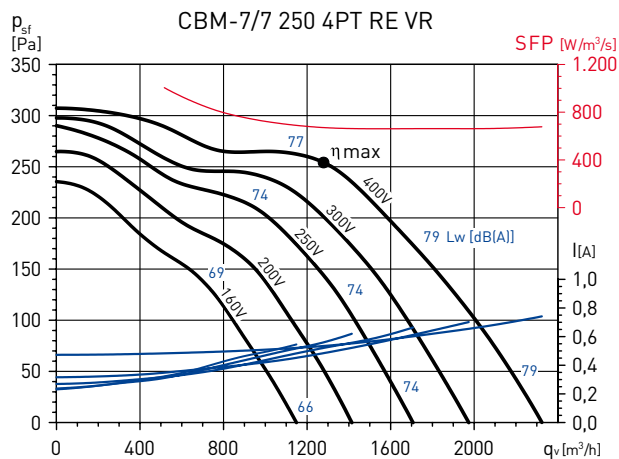
* See example curve.



PERFORMANCE CURVES - Single phase motor

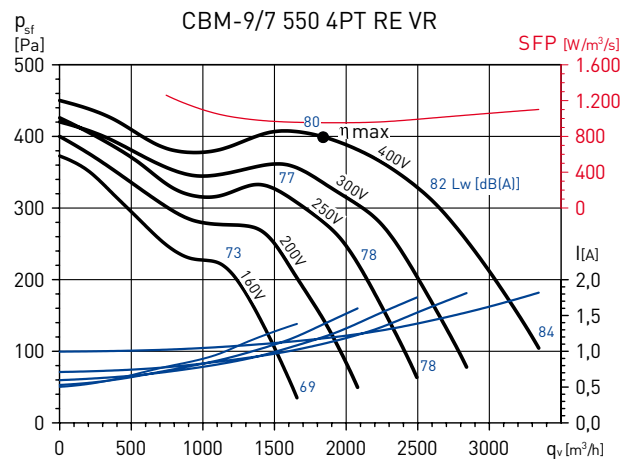


PERFORMANCE CURVES - Three phase motor



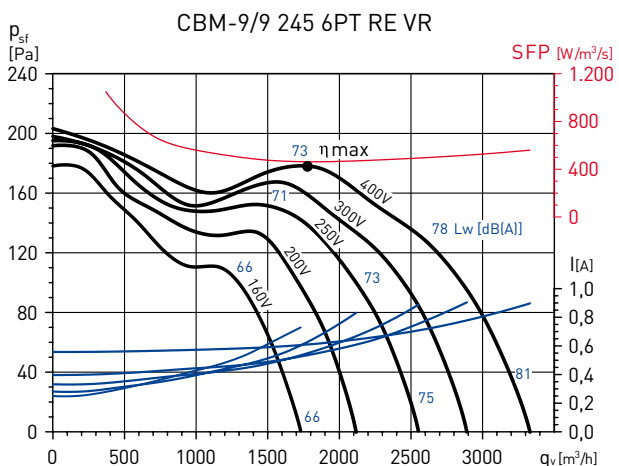
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	45,2	55,5	0,238	1.280	303	1359

* See example curve.



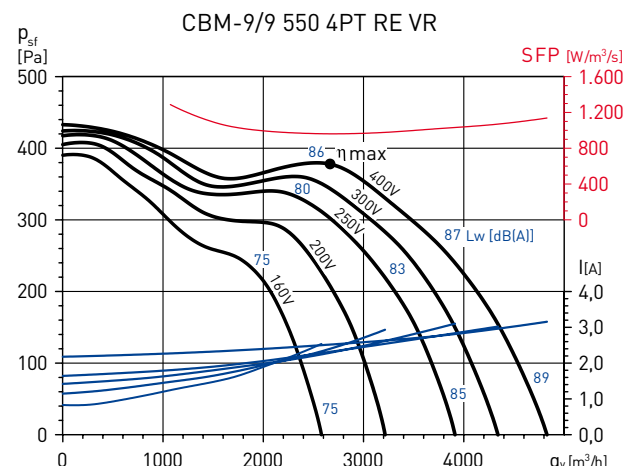
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,7	55,0	0,487	1.839	445	1396

* See example curve.



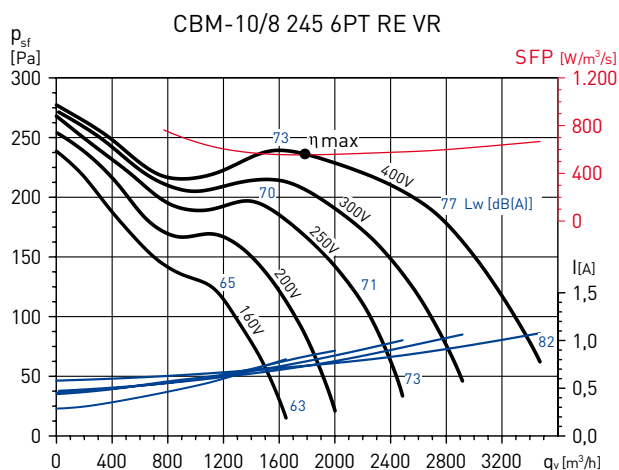
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	0	43,9	54,3	0,230	1.787	203	947

* See example curve.



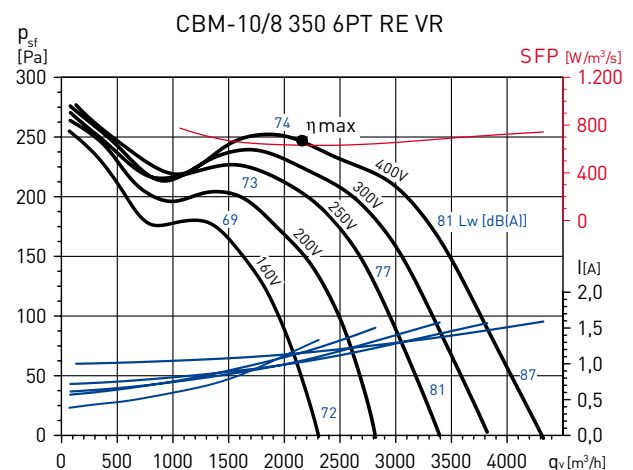
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	44,9	52,2	0,711	2.663	433	1430

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,6	56,5	0,273	1.774	258	931

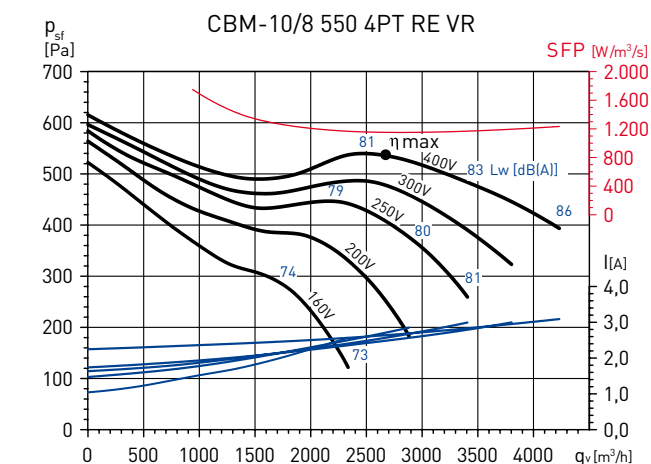
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	44,3	53,3	0,377	2.147	280	954

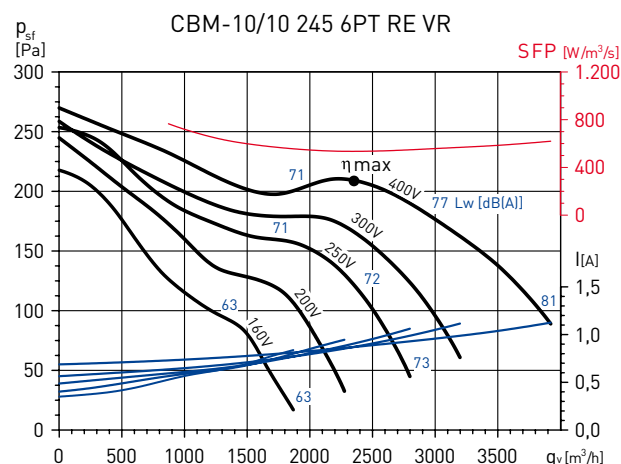
* See example curve.

PERFORMANCE CURVES - Three phase motor



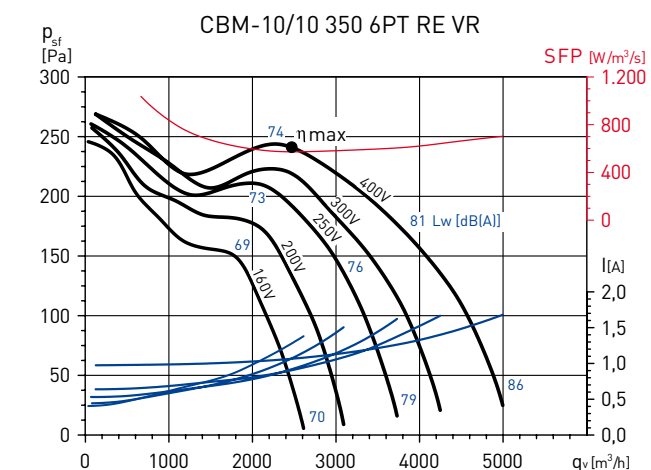
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1						

* See example curve.



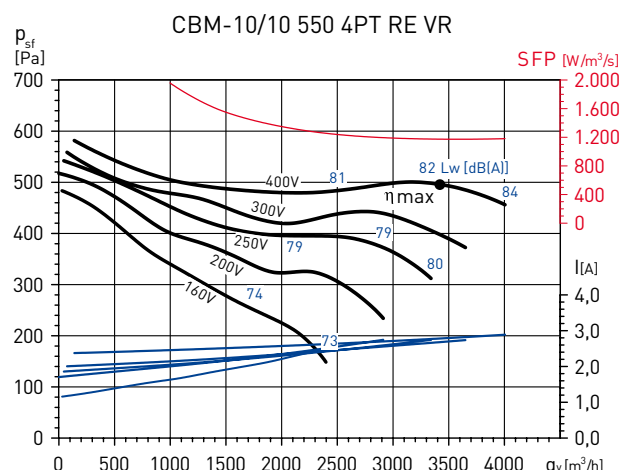
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1						

* See example curve.



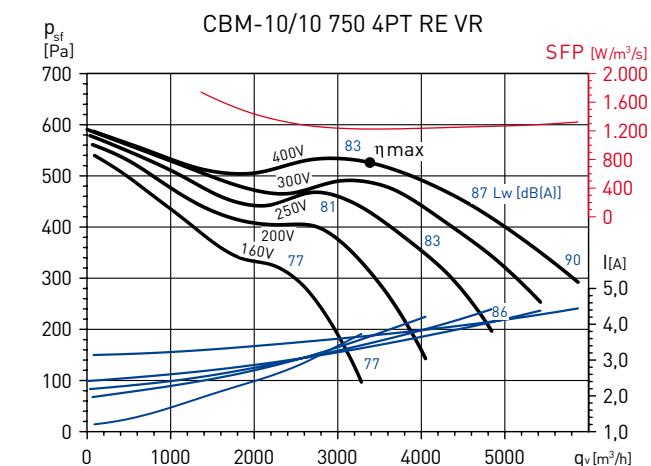
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1						

* See example curve.



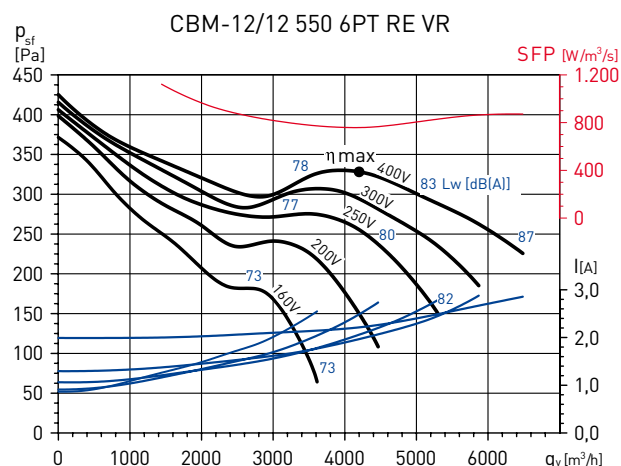
MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1						

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	47,8	53,7	1,150	3.379	586	1.431

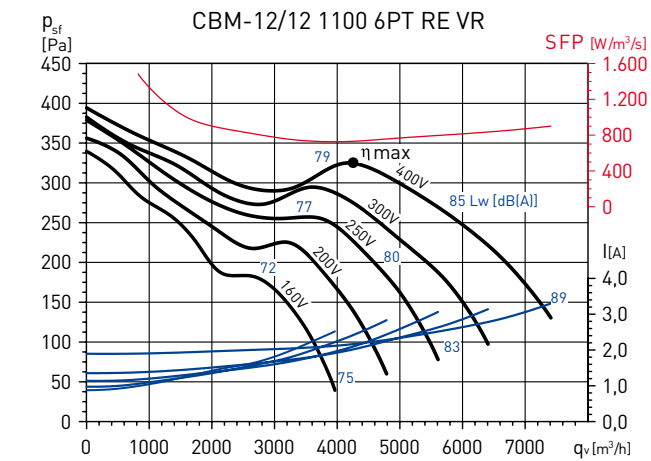
* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,7	57,4	0,886	4.202	387	939

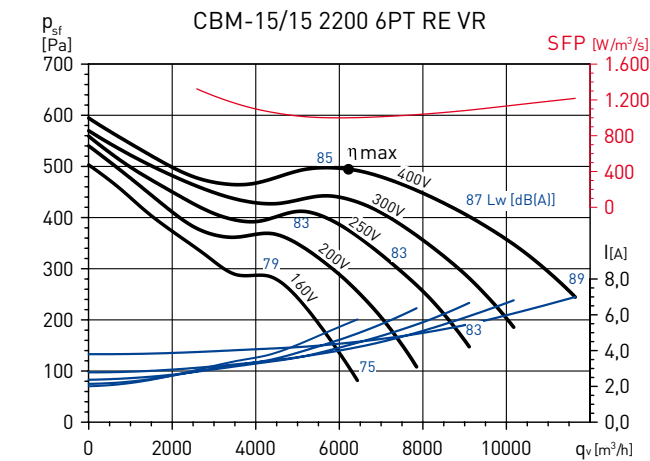
* See example curve.

PERFORMANCE CURVES - Three phase motor



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	51,0	57,7	0,862	4.247	373	925

* See example curve.



MC*	EC*	VSD*	SR*	η[%]*	N*	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	54,7	59,5	1,725	6.209	547	934

* See example curve.