

bmax

TM

New radial motorized backward wheel serie

SIMPLY AT THE TOP

CRAUS®

Soler&Palau
Ventilation Group



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Introduction

BMAX™ is the new serie of motorized radial wheels of S&P

This new range is coming from the long experience and high tech knowhow of S&P in fan technology. Using the most advanced tools available for aerodynamic investigation and the high its own knowhow in electric/electronic motors, S&P got the highest efficient and lowest noise fan range of the category.

BMAX™ range had also a version with a revolutionary aerodynamic devide "LABI-SEAL" that used coupled with S&P inlet cone, designed specifically for these wheels, gives performances never seen before, increasing sensitively the efficiency and decreasing the noise at levels that others cannot achieve.

BMAX™ range has wheels, one piece moulded, in high strength reinforced polyamide plastic material coupled with different external rotor motor arrangements to meet the largest requirements.

BMAX™ wheel is lighter than the other solution, with large benefit in vibration reduction.



E208518

Product features

- Sealed Ball Bearings.
- 20" (500 mm) Standard Lead Length.
- Clockwise Rotation Viewing Inlet.
- UL and cUL listed for Electrical Safety.
- All models have been independently tested for safety by Underwriters Laboratories, Inc.
- All models are fitted with an internal Thermal Overload Protection Device.

RADIAL WHEELS

From 160 to 250 mm diameter:

- Plastic material PA6+10GF.

Accessories

- Inlets (Original S&P inlets should be used for achieving the performances indicated in the datasheets).
- Capacitors for single-phase motors.
- Protection grilles.

Working conditions

All catalogued and product data-plate references of electrical Power/Amps and Rpm's correspond to the fan's maximum permissible load, indicated as in catalogue. All airflow and electrical measurements shown have been measured in Soler & Palau's in-house, ENAC accredited, test laboratories. All fans have been tested with a bell mouth inlet plate condition and the results corrected to a motor constant operating temperature. The fan must not work beyond those values stated on nameplate and within conditions approved by the manufacturer.

- It is considered S1, continuous operation, working conditions.
- Any Control installed, must not allow extreme on/off switching.
- Except where stated, all motors are speed controllable by voltage regulation (either phase cutting or transformer).
- However, it is likely that some resonance vibration or magnetic noise may be noticed as a result.
- In any case, Soler&Palau recommend the use of sinusoidal output transformers.

- Soler&Palau cannot guarantee the proper compatibility between motors and third parts control devices.
- If thermal protection is available for the motor, this should be connected to offer maximum protection to the equipment.

STORAGE AND MAINTENANCE

- Store product in a clean and dry place, for a maximum period of 1 year as a maximum in order to guarantee its lifetime. Same applies to outdoor products.
- If outdoor fan is unused for an extended period of time, it is necessary to occasionally switch on in order to remove humidity inside the motor.
- For special applications or environments, there might be special maintenance instructions to be specified by manufacturer.

MECHANICAL CHARACTERISTICS

All Bmax motorized impellers are constructed with IP44 or with EN 60529 – category 2 standards. However, the IP rating must be tested in the appliance for which it is intended.

All Bmax motorized impellers models include sealed-for-life ball bearings assemblies of the closed type 2Z which have a normal temperature operating range between: -40° to +70°C. The "Life Expectancy" (L10) of the bearings, +40,000 hours, has been tested with the motor shaft working in a horizontal position and with a maximum ambient air stream temperature set at +40°C. For other specific operating conditions – please consult.

The admitted air stream temperature (Tmax and Tmin.) are indicated in the Technical Characteristic chart of each fan model.

Condensation holes are provided, to prevent any accumulation of condensation within the motor when operating in particularly humid conditions or when the surrounding environment experiences rapid temperature changes. These drainage holes have to be open when the fans are installed at their end position.



TEST CONDITIONS

- The Bmax motorized impellers series technical data as shown in this catalogue has been obtained using the nominal voltage supply indicated in the Technical Characteristic chart. Pressure Performance.
- All Bmax motorized impellers fans have been tested for airflow performance in accordance with ISO 5801 and AMCA-210 standards, with dry air at 20°C, 1,2 kg/m³ density and at an atmospheric pressure of 760 mmHg.
- The airflow tests have been conducted with the fans mounted in conjunction with an optimised inlet cone. Sound Level Performance.
- The fans have been tested for sound level performance in accordance with ISO-13347-3 standards from the air inlet part of the fan and at the airflow / pressure point as indicated in the catalogue.

Data sheets

AC version

CRBB/2-190/060 M UL MP

bmax™

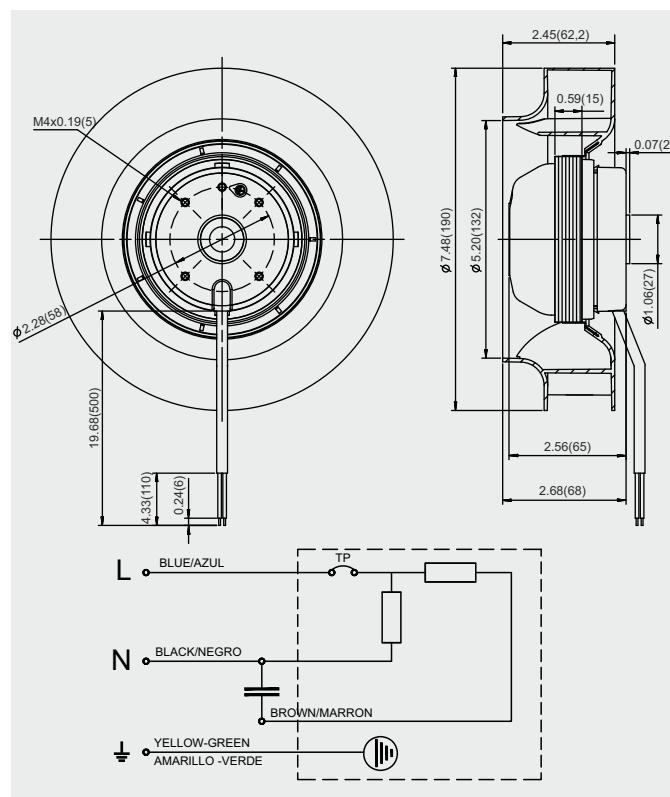
115V 60/50Hz - IP44



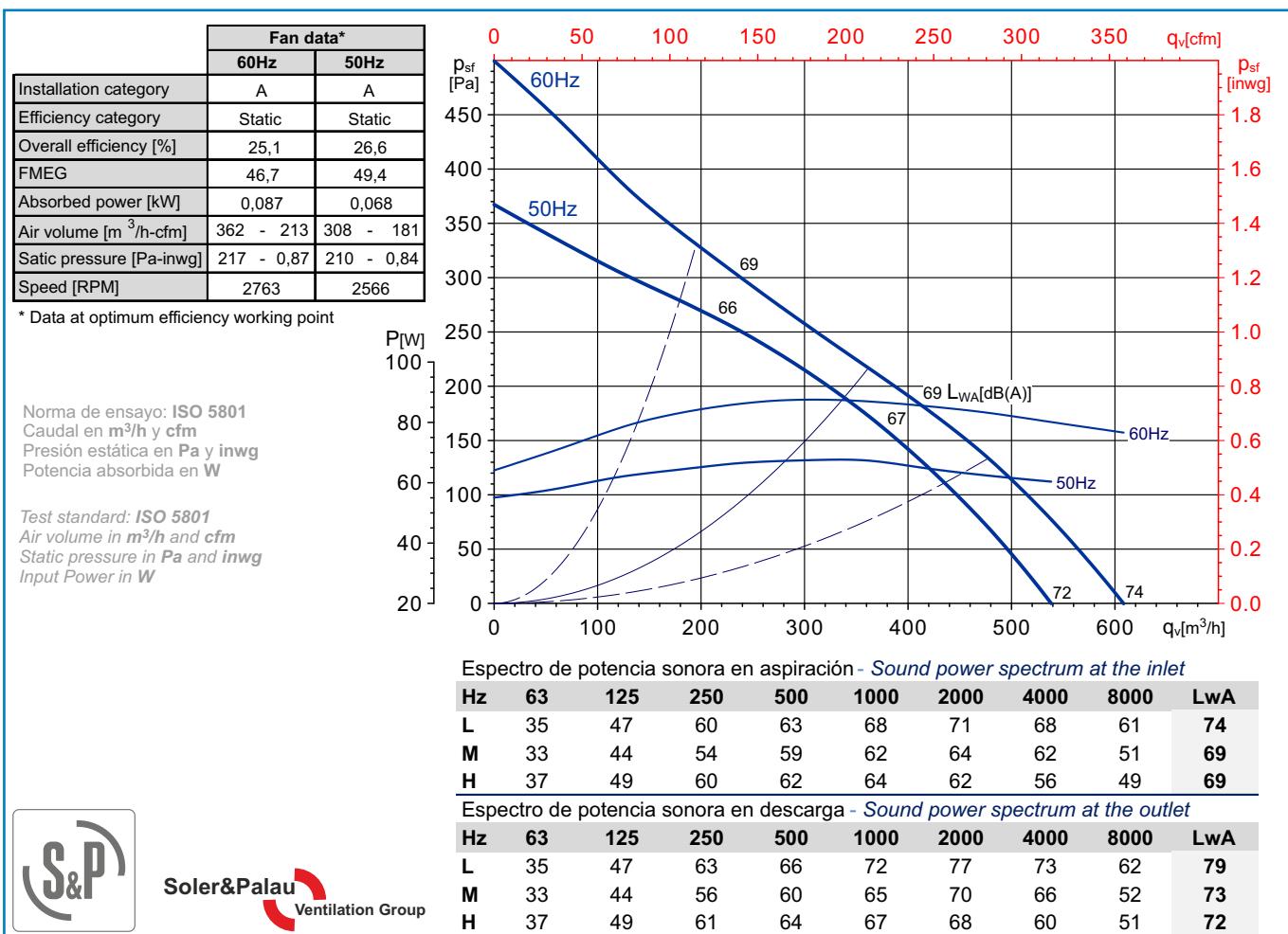
Características Characteristics

Tensión Voltage	1 • 115V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	90 W
Intensidad absorbida máxima Maximum absorbed current	0,8 A
Condensador Capacitor	5 • F/370V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	3.31 lbs (1,5 kg)
Código ventilador Fan code number	5509313200
Código óido aspiración Inlet cone code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (10/02/2014)



Soler&Palau
Ventilation Group

CRBB/2-190/060 M UL MP

230V 60/50Hz - IP44

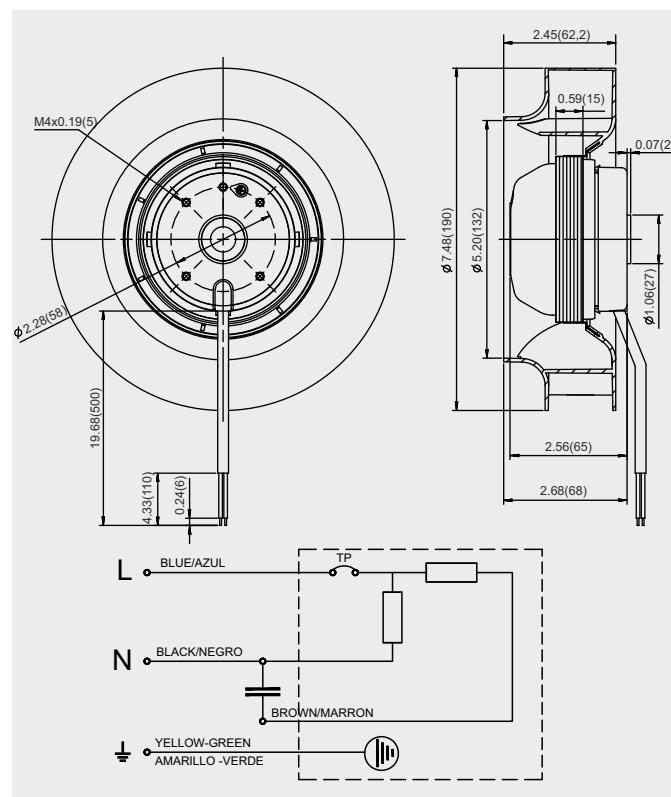
bmax™

Características Characteristics

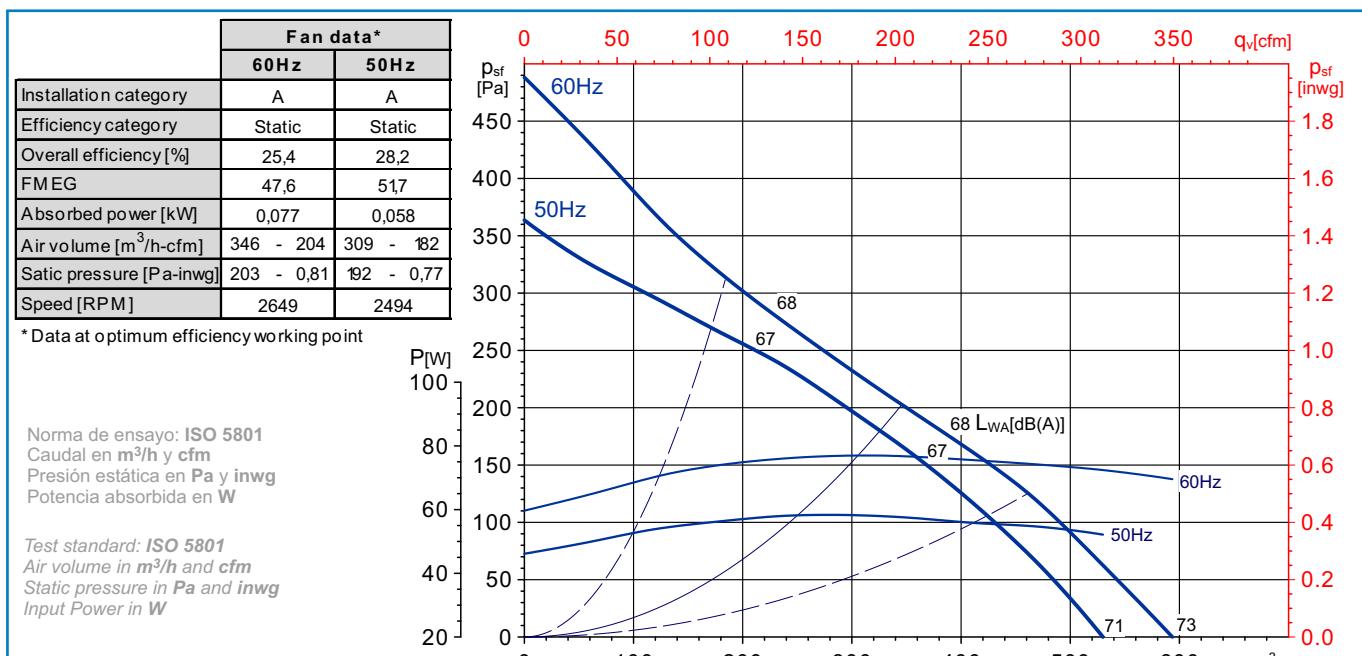


Tensión Voltage	1 • 230V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	90 W
Intensidad absorbida máxima Maximum absorbed current	0,4 A
Condensador Capacitor	2 • F/440V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	3.31 lbs (1,5 kg)
Código ventilador Fan code number	5509313600
Código oído aspiración Inlet cone code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (02/04/2014)



Soler&Palau
Ventilation Group

CRBB/2-220/063 M UL MP

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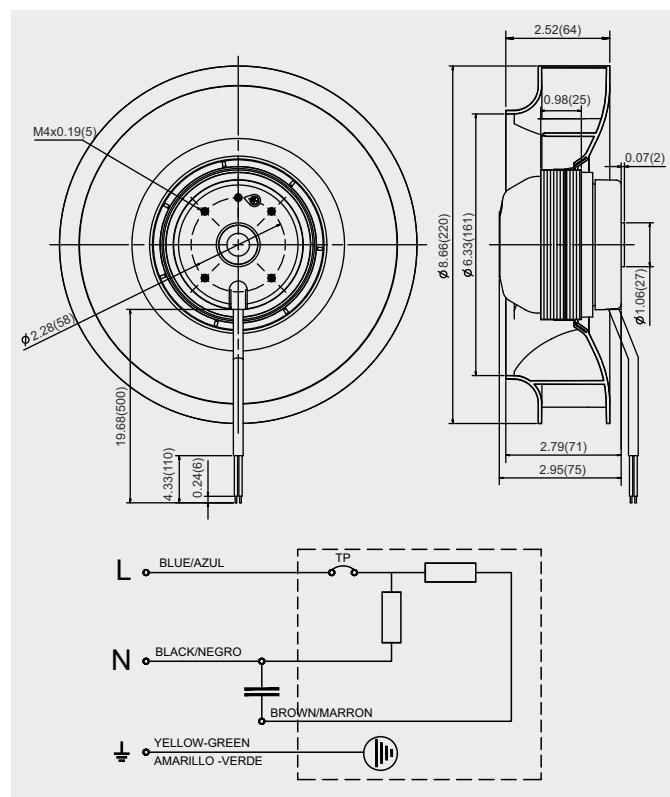
115V 60/50Hz - IP44



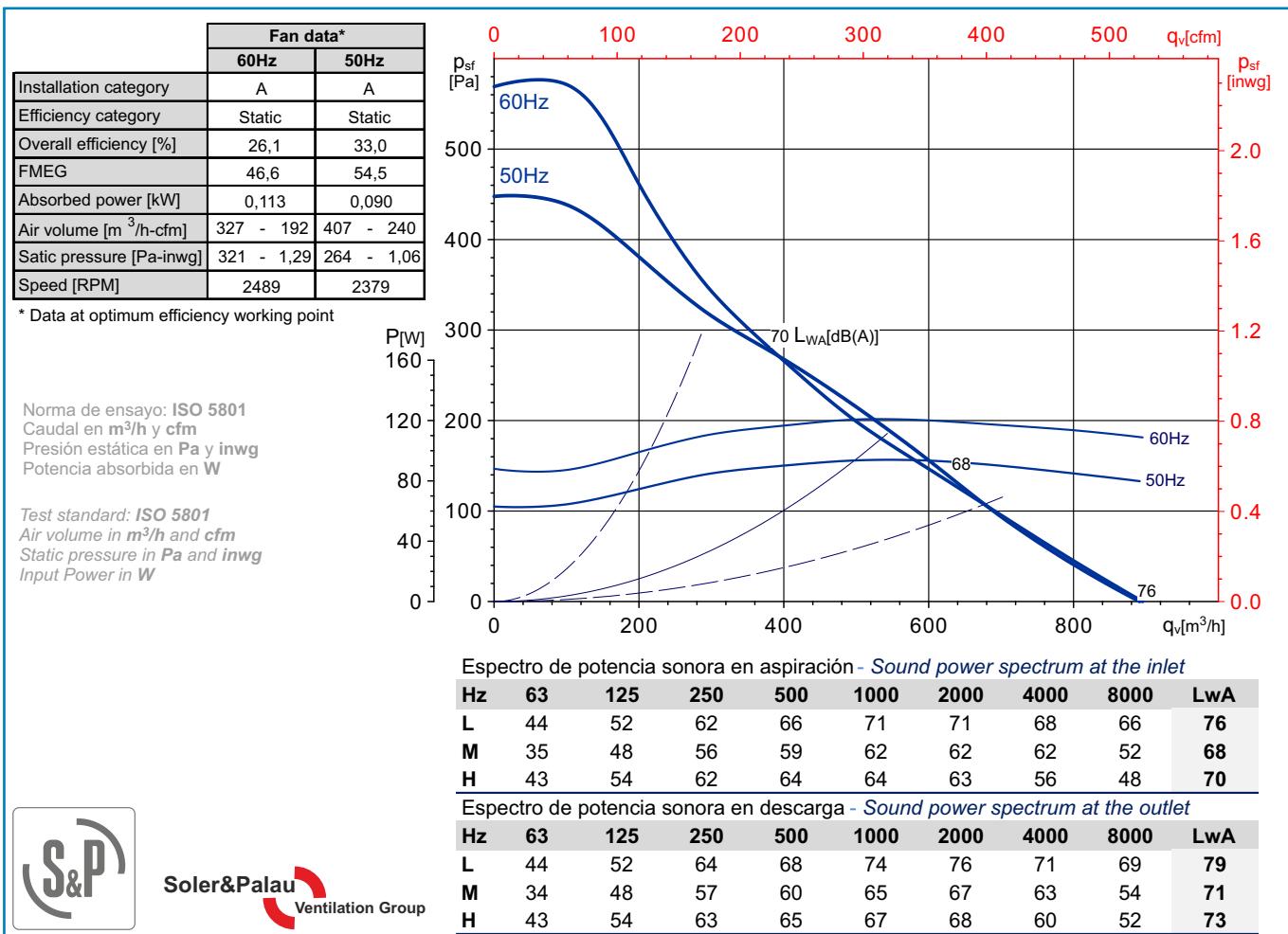
Características Characteristics

Tensión Voltage	1 • 115V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	115 W
Intensidad absorbida máxima Maximum absorbed current	1,0 A
Condensador Capacitor	8 • F/370V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	4.85 lbs (2,2 kg)
Código ventilador Fan code number	5509313300
Código motor Motor code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (13/11/2013)



CRBB/2-220/063 M UL MP

bmax™

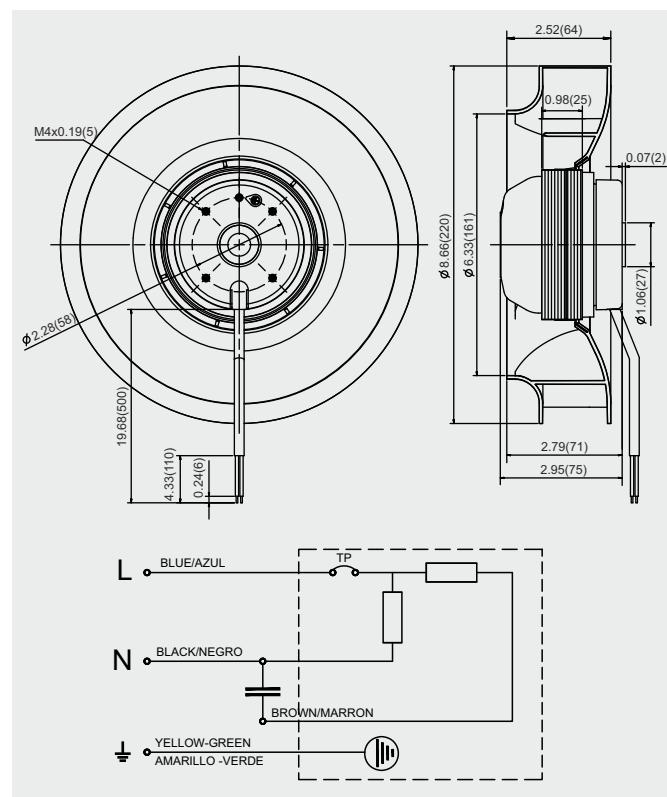
230V 60/50Hz - IP44



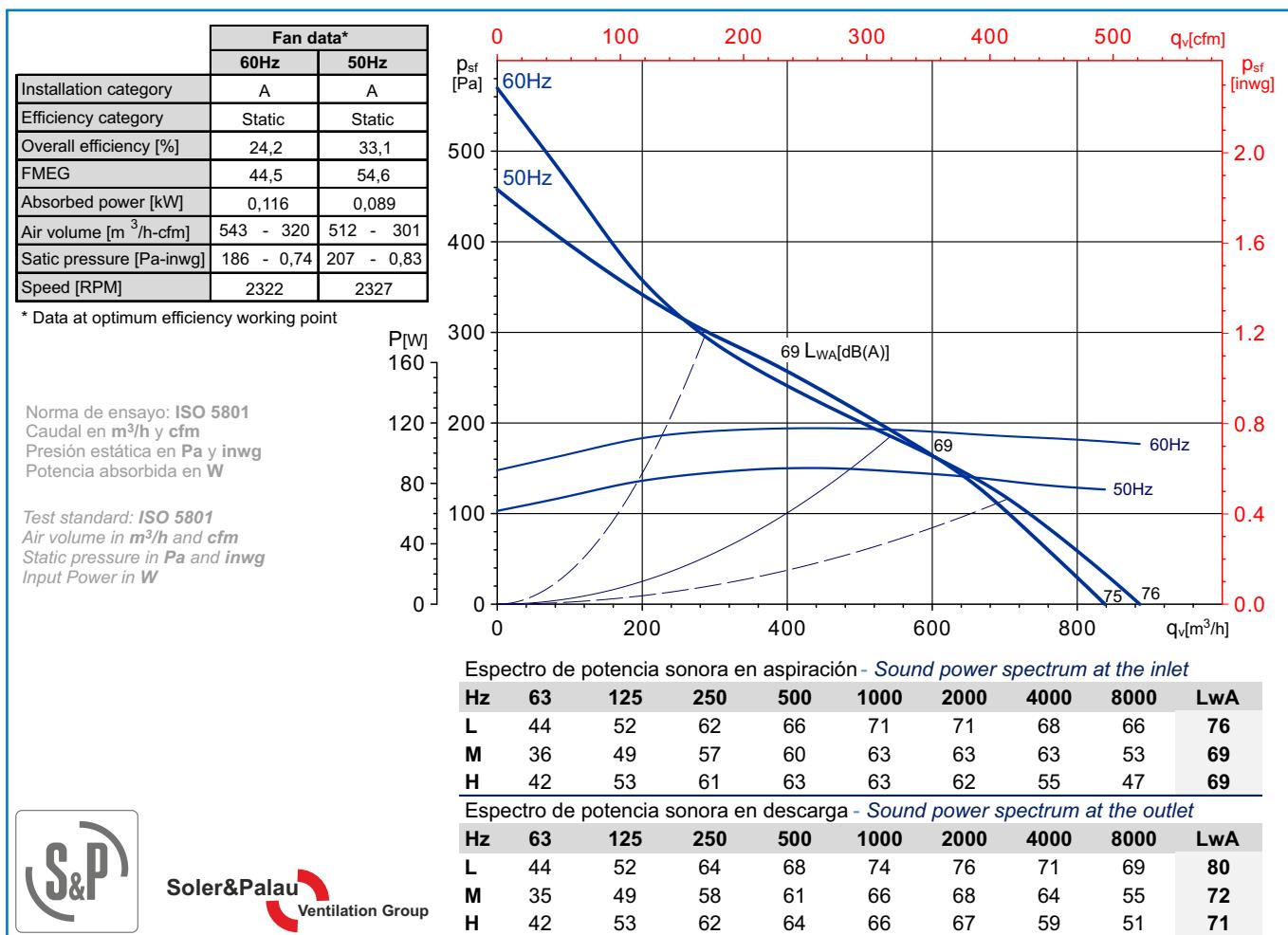
Características Characteristics

Tensión Voltage	1 • 230V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	115 W
Intensidad absorbida máxima Maximum absorbed current	0,5 A
Condensador Capacitor	2 • F/440V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	4.85 lbs (2,2 kg)
Código ventilador Fan code number	5509313700
Código motor Motor code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (16/04/2014)



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CRBB/2-225/088 M UL MP

115V 60Hz - IP44

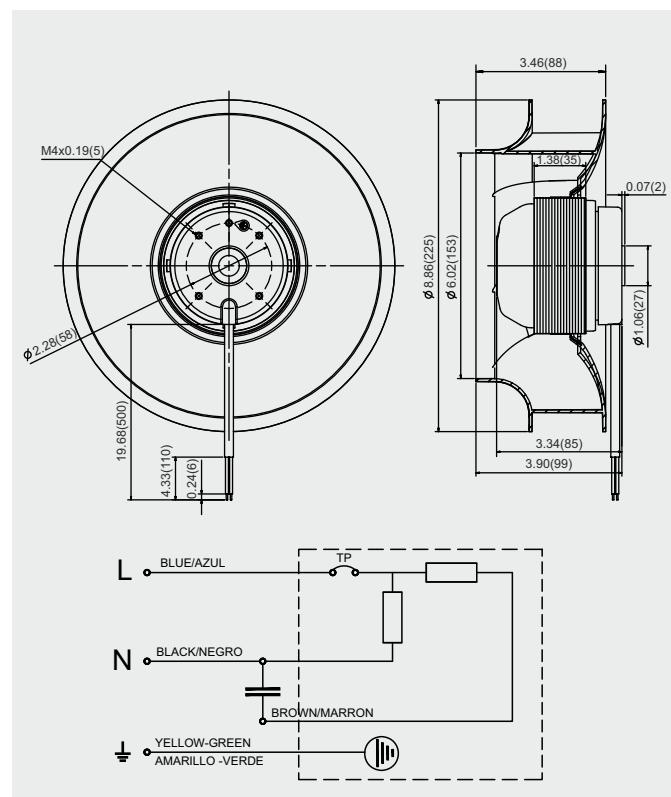
bmax™

Características Characteristics

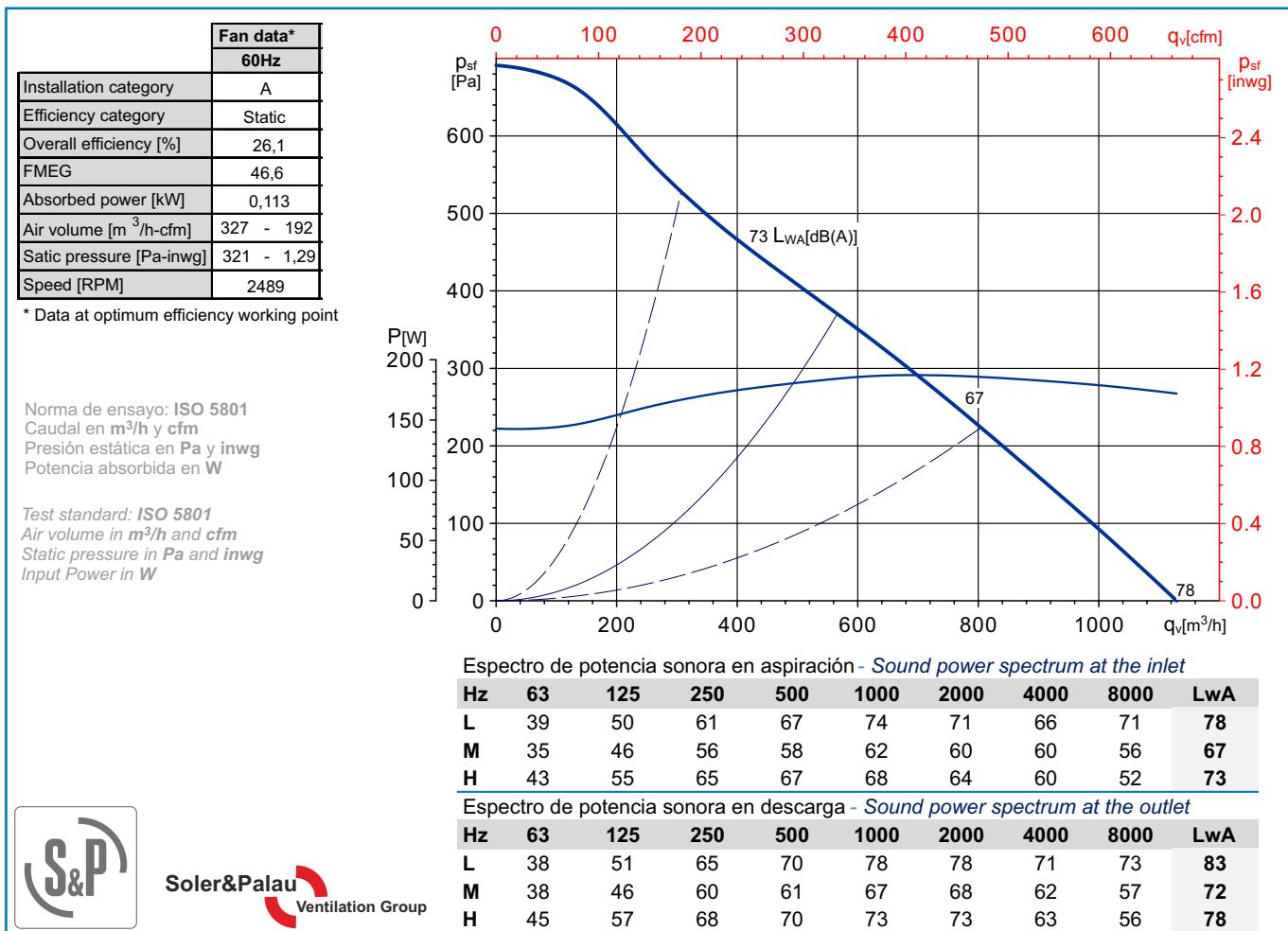


Tensión Voltage	1 • 115V 60Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	200 W
Intensidad absorbida máxima Maximum absorbed current	1,76 A
Condensador Capacitor	18 • F/370V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	6.17 lbs (2,8 kg)
Código ventilador Fan code number	5509313400
Código motor Motor code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (08/03/2013)



Soler&Palau
Ventilation Group

CRBB/2-250/084 M UL MP

115V 60Hz - IP44

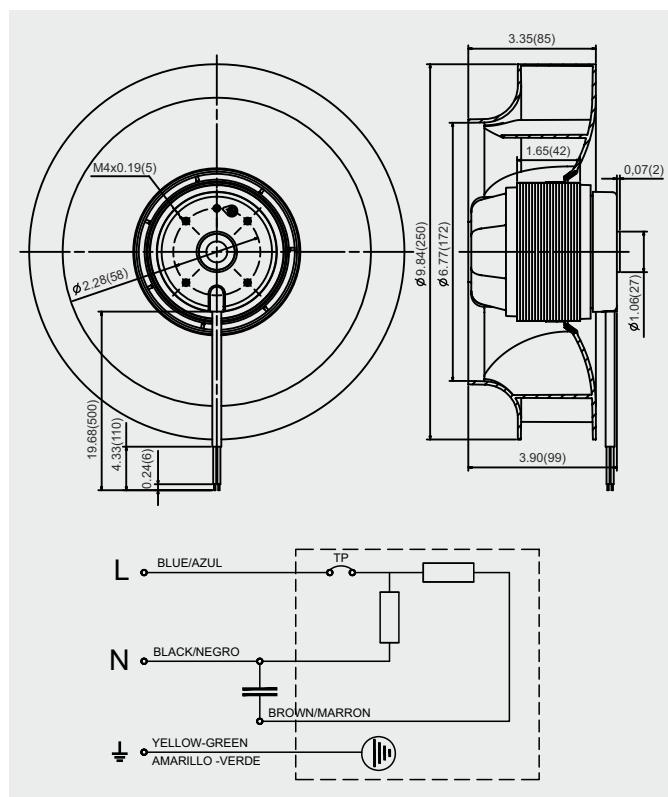
bmax™

Características Characteristics

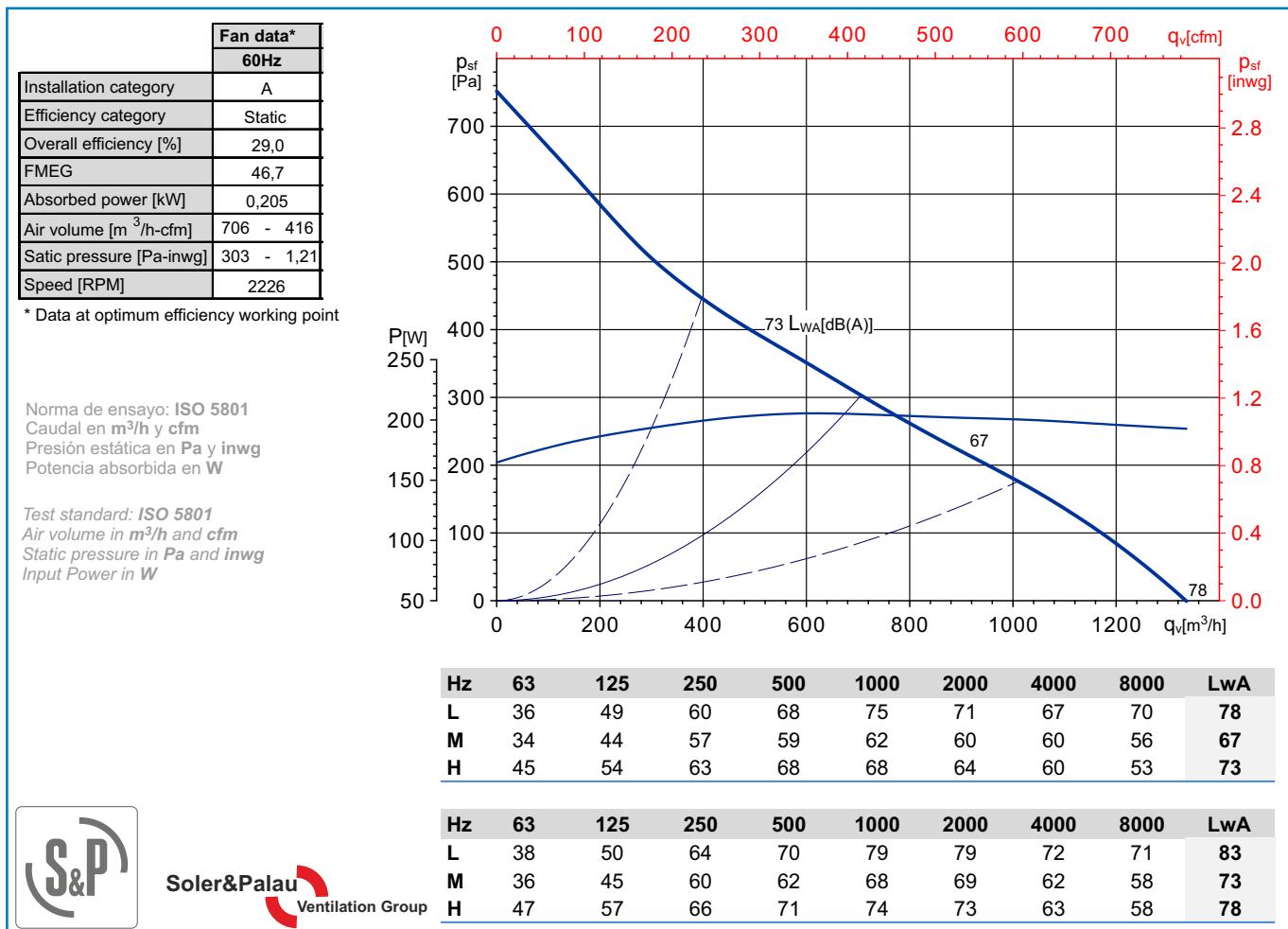


Tensión Voltage	1 • 115V 60Hz
Tipo motor Motor type	1V 1S IP44 cl.F
Velocidad Speed	2 polos 2 poles
Potencia motor Motor power	215 W
Intensidad absorbida máxima Maximum absorbed current	1,96 A
Condensador Capacitor	20 • F/370V
Temperatura del aire Air temperature	-40°F < T < +104°F -40°C < T < +40°C
Peso Weight	6.17 lbs (2,8 kg)
Código ventilador Fan code number	5509313500
Código motor Motor code number	-----

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (29/04/2013)



CRBB/4-225/088 M UL MP

115V 60/50Hz - IP44

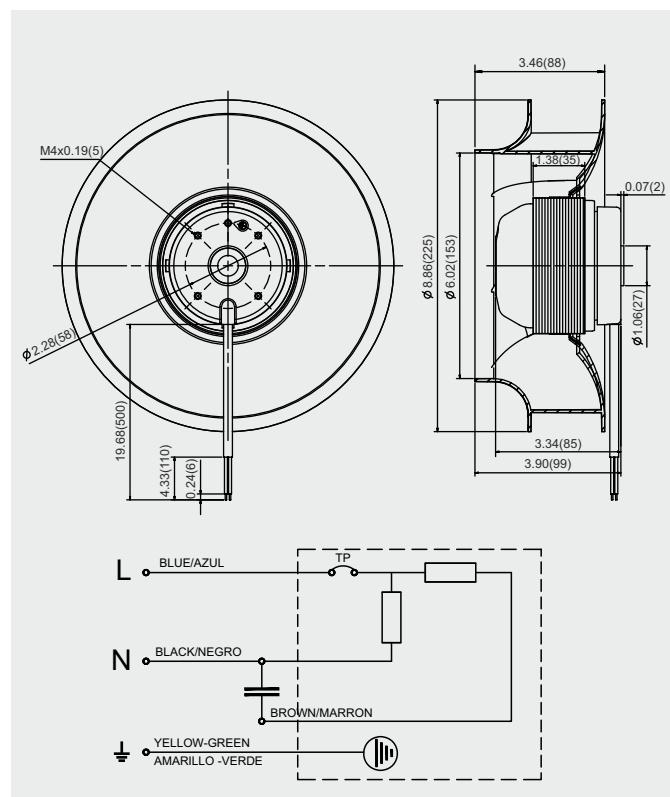
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Características Characteristics

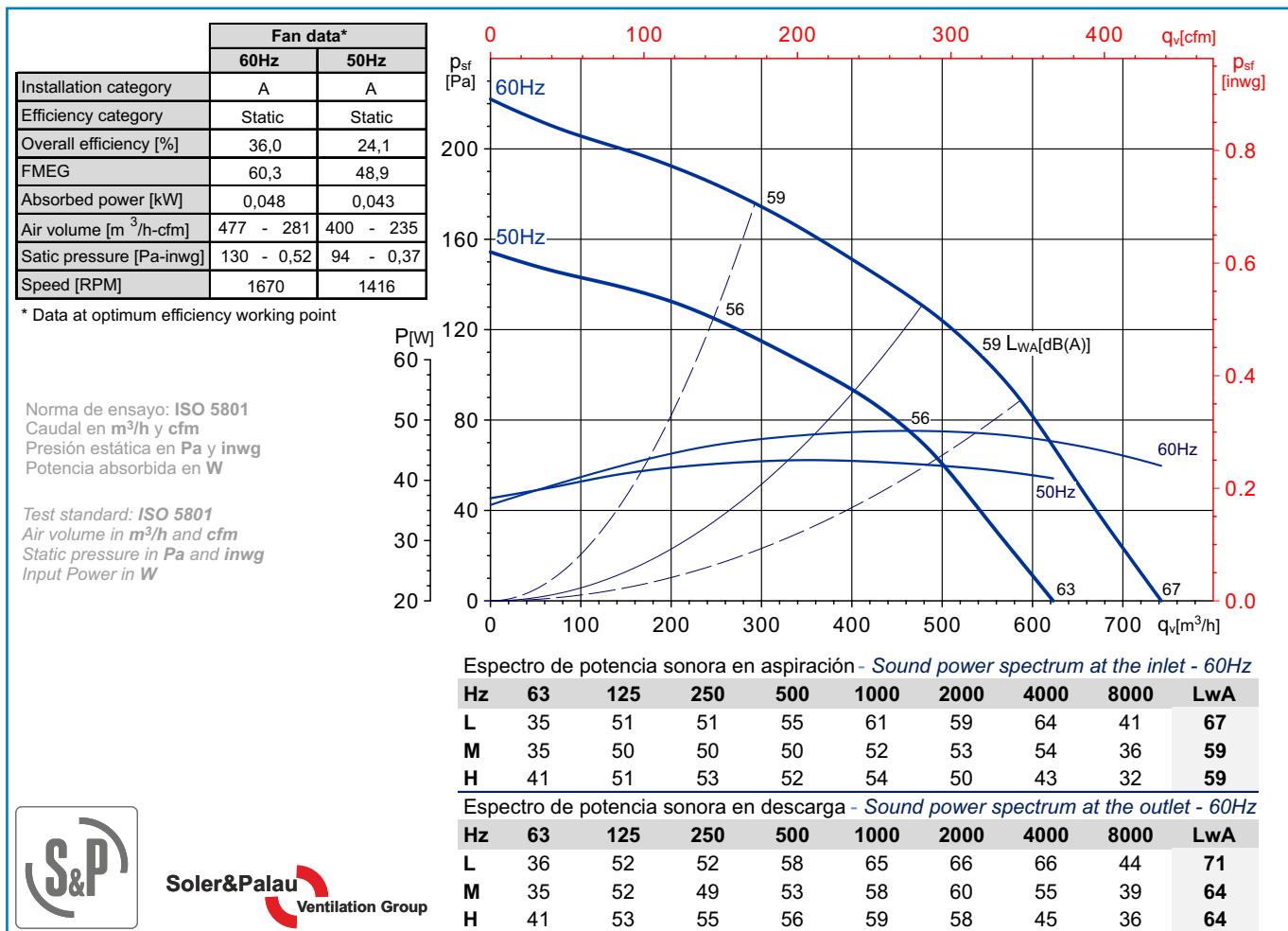


Tensión Voltage	1 • 115V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	4 polos 4 poles
Potencia absorbida máxima Maximum absorbed power	42 W
Intensidad absorbida máxima Maximum absorbed current	0,42 A
Condensador Capacitor	5 • F/370V
Temperatura del aire Air temperature	5°F < T < +104°F -15°C < T < +40°C
Peso Weight	3.75 lbs (1,7 kg)
Código ventilador Fan code number	5509313800
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (14/05/2014)



CRBB/4-250/084 M UL MP

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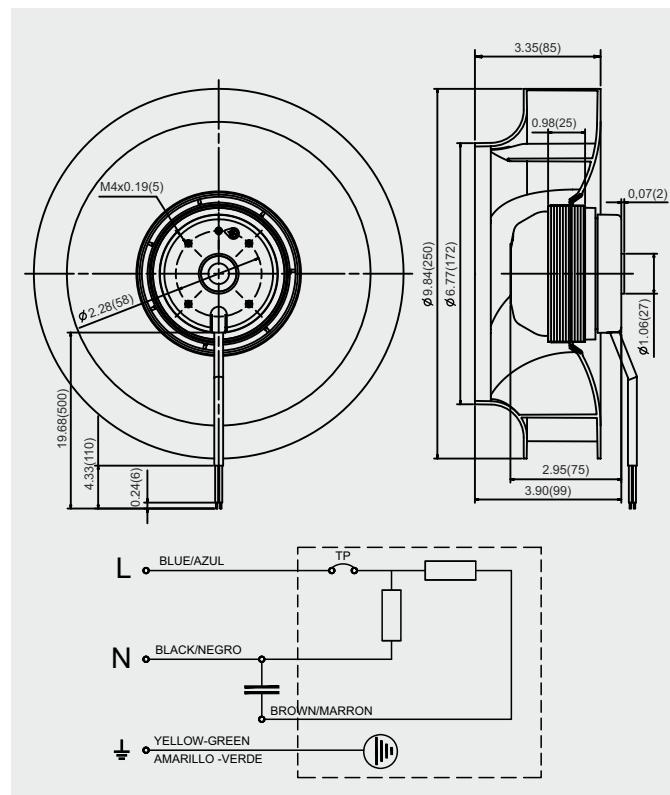
115V 60/50Hz - IP44

Características Characteristics

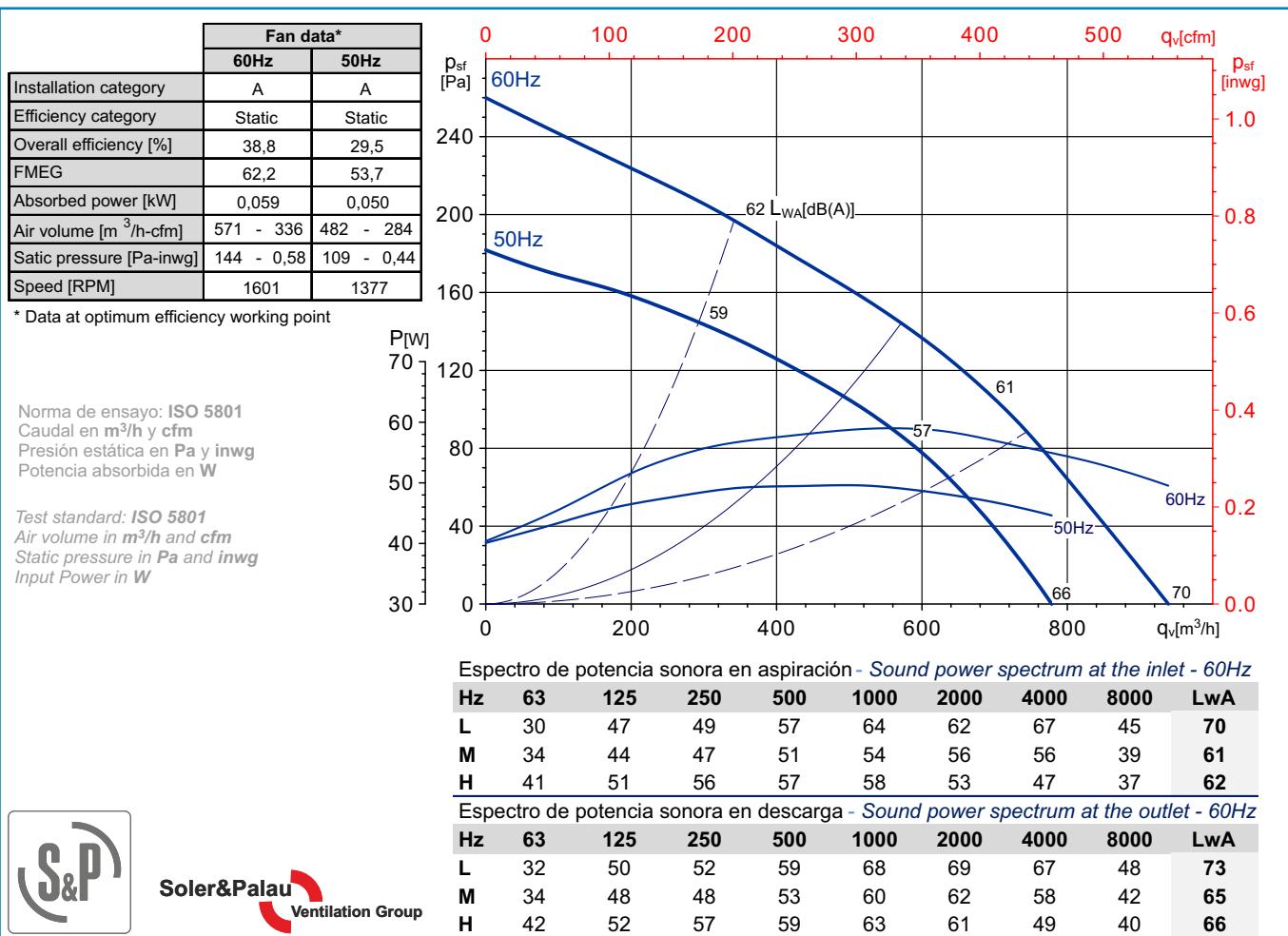


Tensión Voltage	1 • 115V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	4 polos 4 poles
Potencia absorbida máxima Maximum absorbed power	50 W
Intensidad absorbida máxima Maximum absorbed current	0,48 A
Condensador Capacitor	5 • F/370V
Temperatura del aire Air temperature	5°F < T < +104°F -15°C < T < +40°C
Peso Weight	3.97 lbs (1,8 kg)
Código ventilador Fan code number	5509314000
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (14/05/2014)



CRBB/4-250/084 M UL MP

230V 60/50Hz - IP44

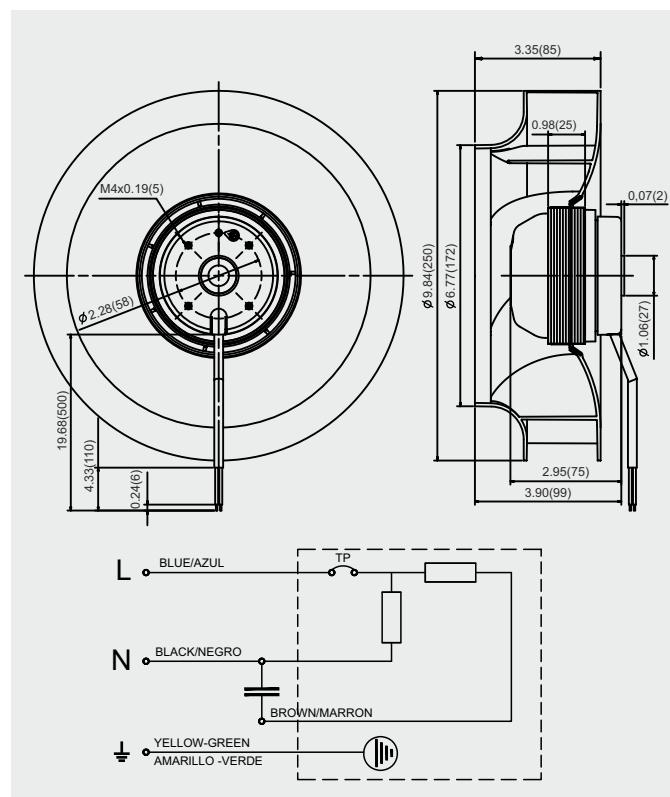
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Características Characteristics

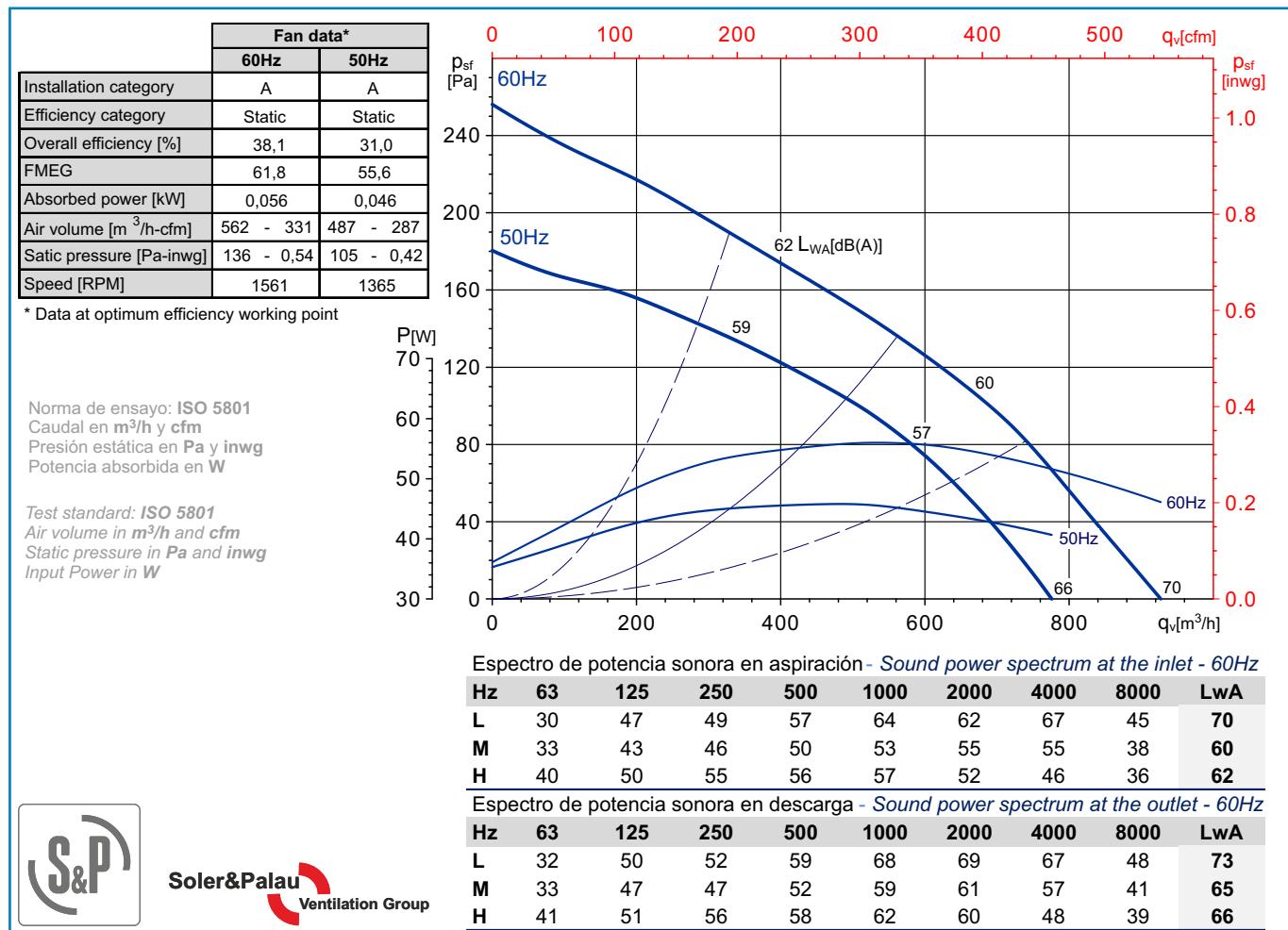


Tensión Voltage	1 • 230V 60/50Hz
Tipo motor Motor type	1V 1S IP44 cl.B
Velocidad Speed	4 polos 4 poles
Potencia absorbida máxima Maximum absorbed power	58 W
Intensidad absorbida máxima Maximum absorbed current	0,26 A
Condensador Capacitor	1 • F/450V
Temperatura del aire Air temperature	5°F < T < +104°F -15°C < T < +40°C
Peso Weight	3.97 lbs (1,8 kg)
Código ventilador Fan code number	5509313900
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (14/05/2014)



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Data sheets

DC version

CRBB/1-160/052 M

48VDC

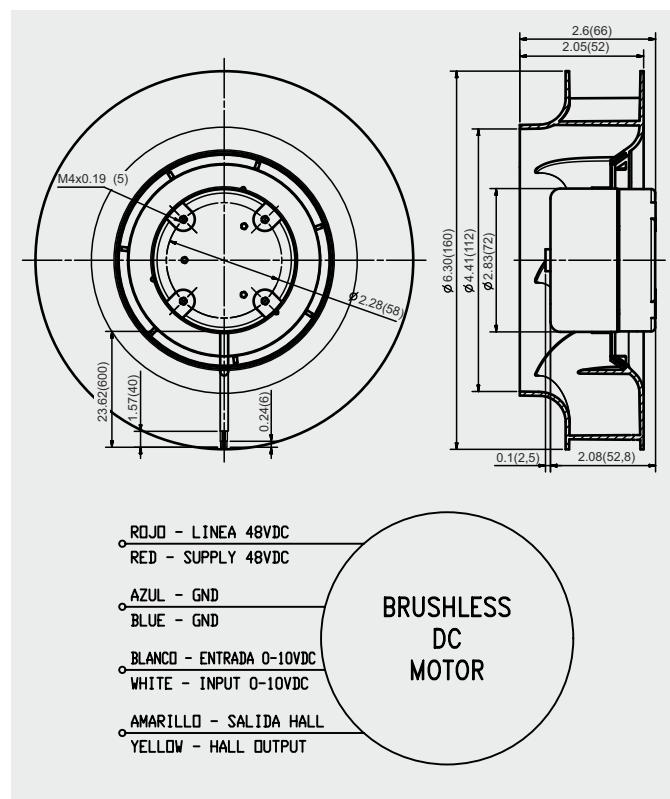
bmax™

Características Characteristics

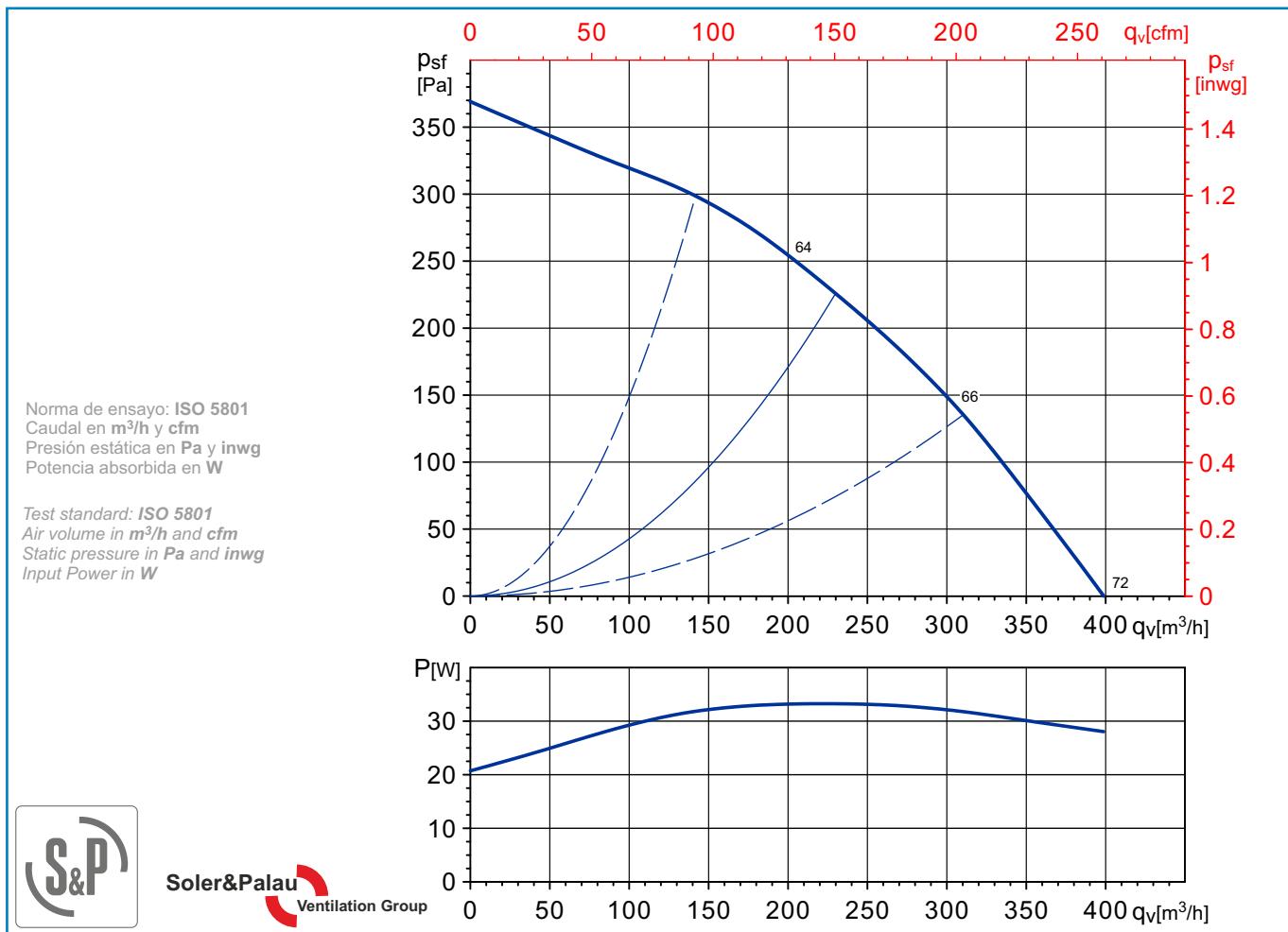


Tensión Voltage	48VDC
Tipo motor Motor type	DC MOTOR - cl.B
Velocidad máxima Maximum speed	3150 RPM
Potencia absorbida máxima Maximum absorbed power	33 W
Intensidad absorbida máxima Maximum absorbed current	0,7 A
Material turbina Wheel material	Plastic
Temperatura del aire Air temperature	-4°F < T < +122°F -20°C < T < +50°C
Peso Weight	1.76lbs (0,8 kg)
Código ventilador Fan code number	
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (21/01/2013)



CRBB/1-160/052 M

48VDC

bmax™

Características Characteristics

	Input tension regul. (V)	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (cfm(m³/h))
Model type CRBB/1-160/052M	10	3150	33	0,7	235(400)

Características acústicas Acoustic characteristics

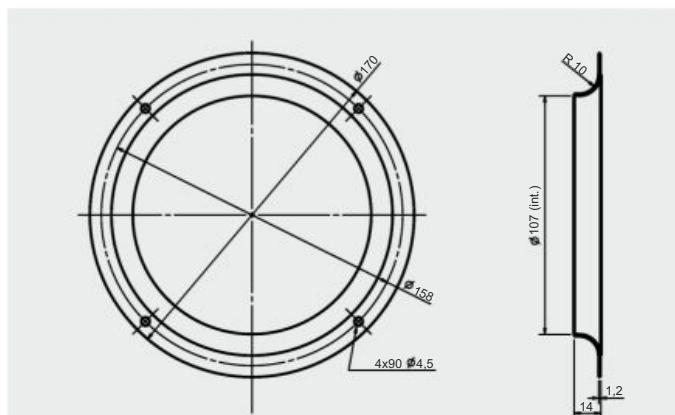
Espectro de potencia sonora en aspiración - *Sound power spectrum at the inlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	41	48	56	61	67	68	63	62	72
M	39	42	51	58	59	61	60	55	66
H	45	44	55	56	58	59	55	47	64

Espectro de potencia sonora en descarga - *Sound power spectrum at the outlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	49	44	56	64	69	73	70	61	76
M	46	41	52	58	61	67	66	53	71
H	45	43	56	57	60	65	60	48	68

Accesorios de montaje Mounting accessories



Soler&Palau
Ventilation Group

CRBB/1-190/060 M

24VDC

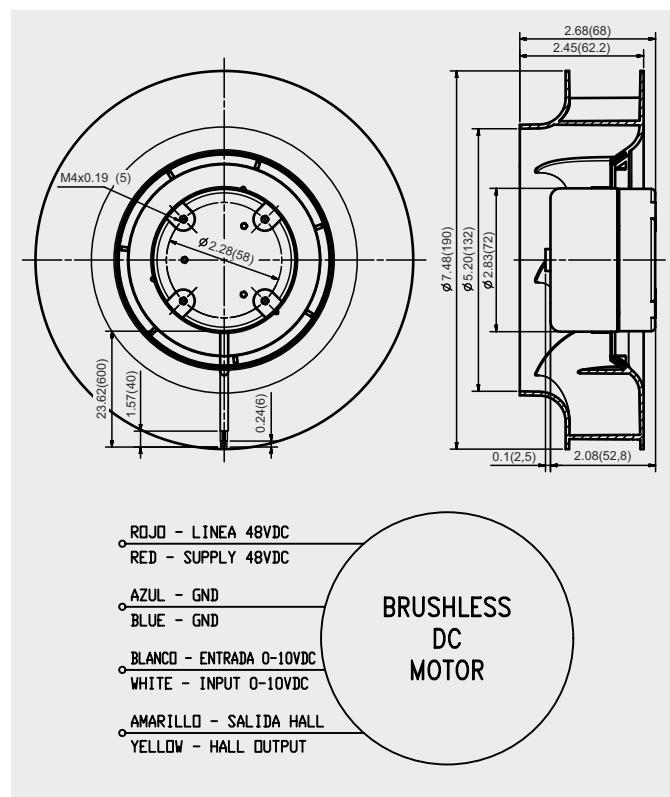
bmax™

Características Characteristics

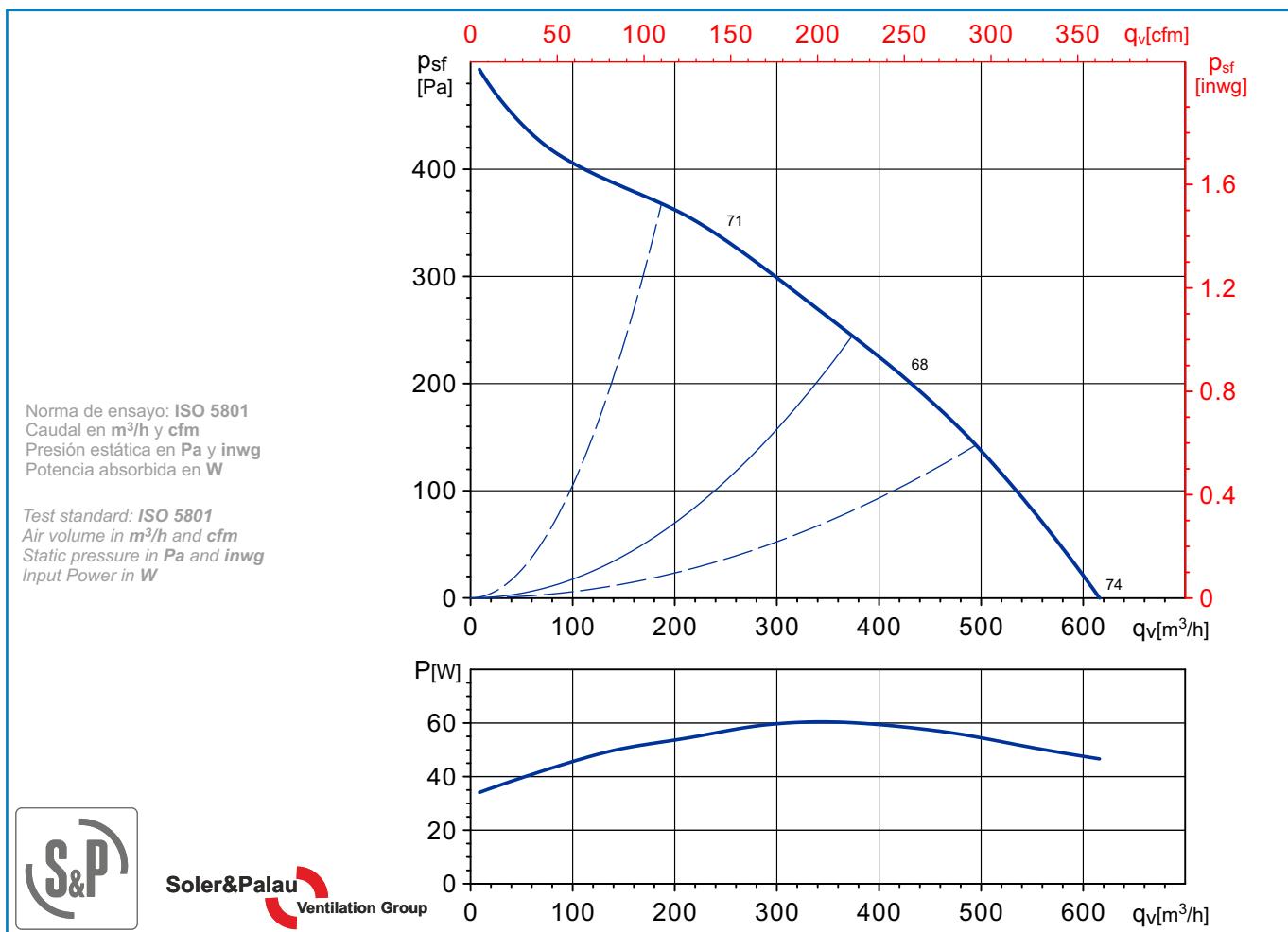


Tensión Voltage	24VDC
Tipo motor Motor type	DC MOTOR - cl.B
Velocidad máxima Maximum speed	2912 RPM
Potencia absorbida máxima Maximum absorbed power	59 W
Intensidad absorbida máxima Maximum absorbed current	2,4 A
Material turbina Wheel material	Plastic
Temperatura del aire Air temperature	-4°F < T < +122°F -20°C < T < +50°C
Peso Weight	1.76lbs (0,8 kg)
Código ventilador Fan code number	
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (09/07/2013)



Soler&Palau
Ventilation Group

CRBB/1-190/060 M

24VDC

bmax™

Características Characteristics

	Input tension regul. (V)	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (cfm(m³/h))
Model type CRBB/1-190/060M	10	2912	59	2,4	365(620)

Características acústicas

Acoustic characteristics

Espectro de potencia sonora en aspiración - *Sound power spectrum at the inlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	37	49	61	65	68	68	66	62	74
M	36	47	56	58	61	62	62	51	68
H	40	52	63	64	65	64	59	52	71

Espectro de potencia sonora en descarga - *Sound power spectrum at the outlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	37	48	62	65	71	75	72	63	78
M	36	46	55	59	64	69	68	53	73
H	40	52	63	65	68	71	65	55	74

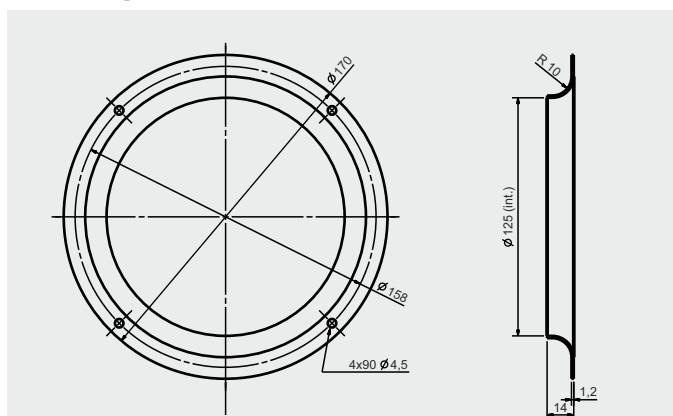
Norma de ensayo: **ISO 5801**

Especetros de potencia sonora en dB(A)

Test standard: ISO 5801

Sound power spectrum in dB(A)

Accesorios de montaje Mounting accessories



Soler&Palau
Ventilation Group

CRBB/1-190/060 M

48VDC

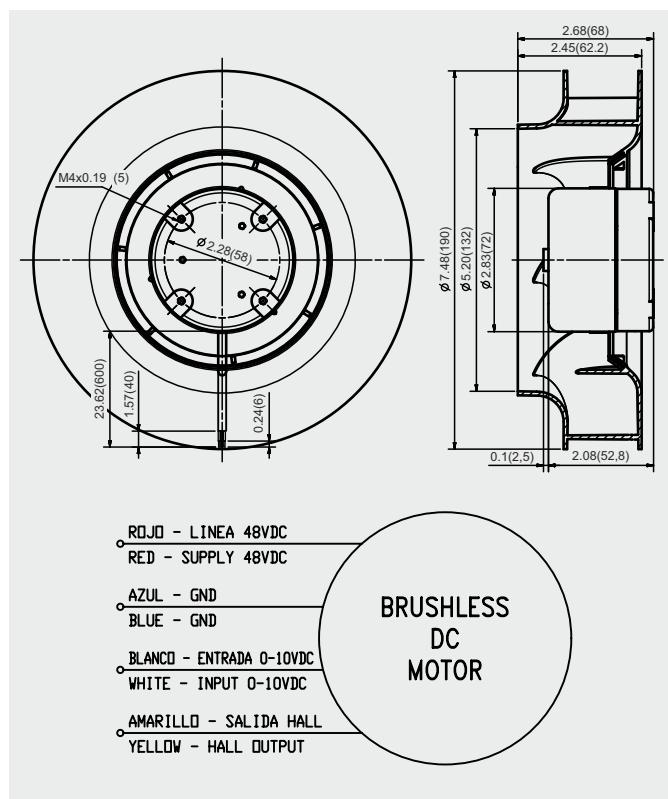
bmax™

Características Characteristics

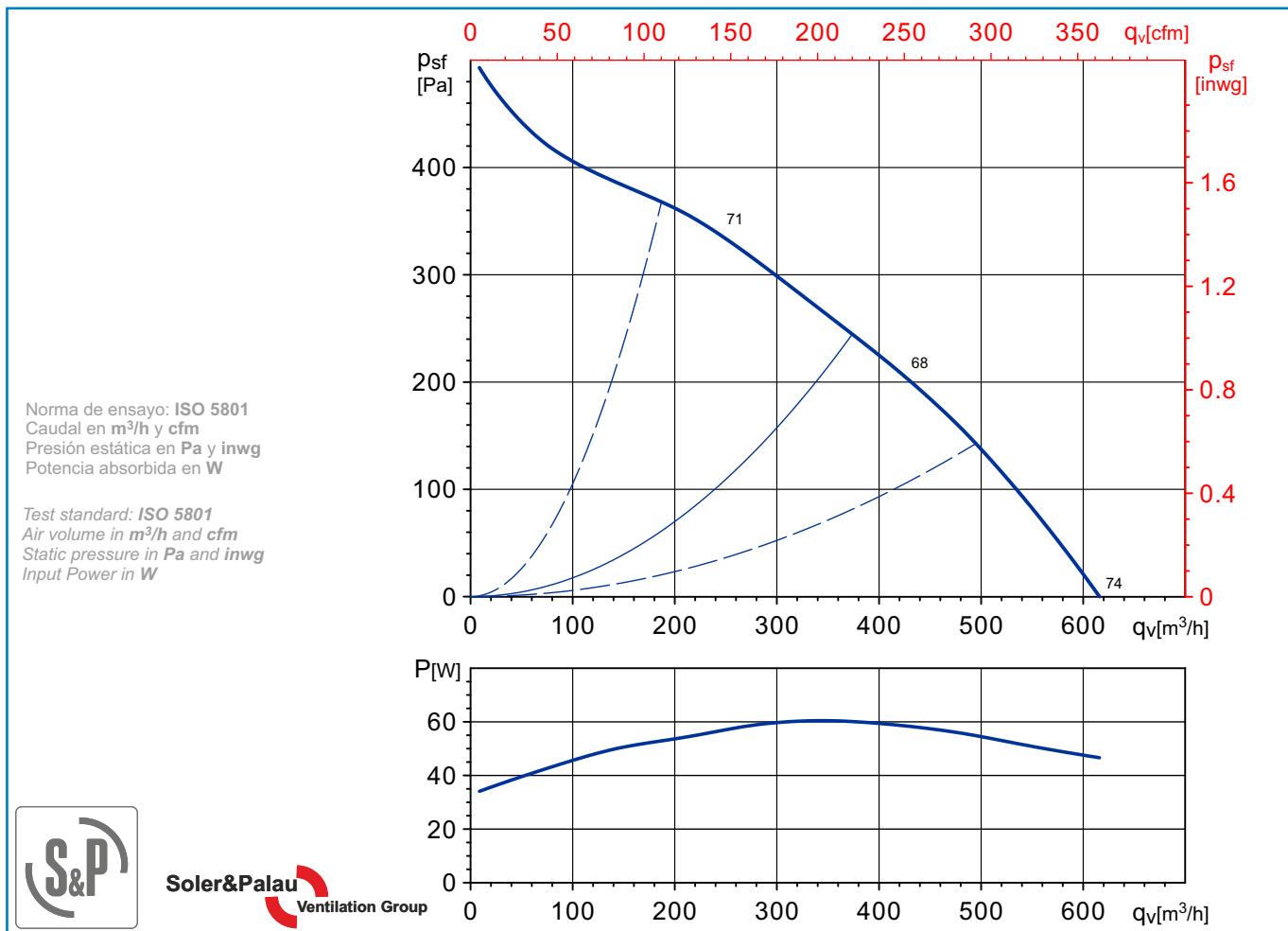


Tensión Voltage	48VDC
Tipo motor Motor type	DC MOTOR - cl.B
Velocidad máxima Maximum speed	3029 RPM
Potencia absorbida máxima Maximum absorbed power	61 W
Intensidad absorbida máxima Maximum absorbed current	1,2 A
Material turbina Wheel material	Plastic
Temperatura del aire Air temperature	-4°F < T < +122°F -20°C < T < +50°C
Peso Weight	1.76lbs (0,8 kg)
Código ventilador Fan code number	
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (09/07/2013)



CRBB/1-190/060 M

48VDC

bmax™

Características
Characteristics

Model type	Input tension regul. (V)	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (cfm(m ³ /h))
CRBB/1-190/060M	10	3030	61	1,2	365(620)

Características acústicas

Acoustic characteristics

Espectro de potencia sonora en aspiración - Sound power spectrum at the inlet

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	37	49	61	65	68	68	66	62	74
M	36	47	56	58	61	62	62	51	68
H	40	52	63	64	65	64	59	52	71

Espectro de potencia sonora en descarga - Sound power spectrum at the outlet

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	37	48	62	65	71	75	72	63	78
M	36	46	55	59	64	69	68	53	73
H	40	52	63	65	68	71	65	55	74

Norma de ensayo: ISO 5801

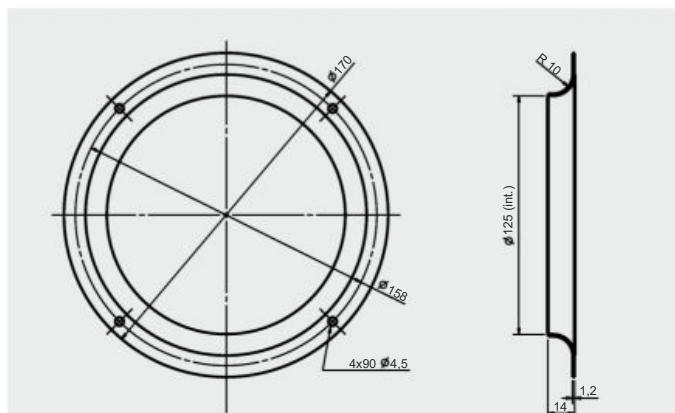
Especetros de potencia sonora en dB(A)

Test standard: ISO 5801

Sound power spectrum in dB(A)

Accesorios de montaje

Mounting accessories



Soler&Palau
Ventilation Group

CRBB/1-225/088 M

48VDC

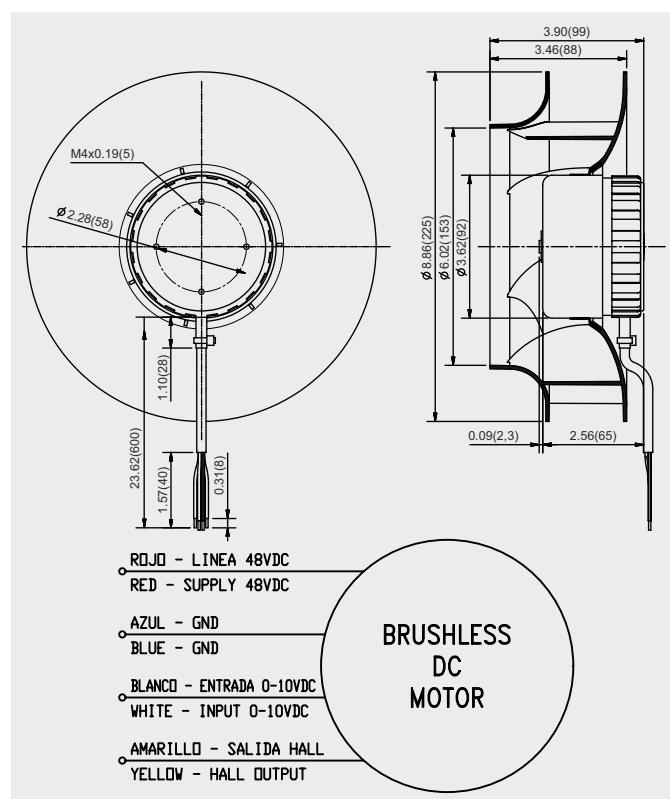
bmax™

Características Characteristics

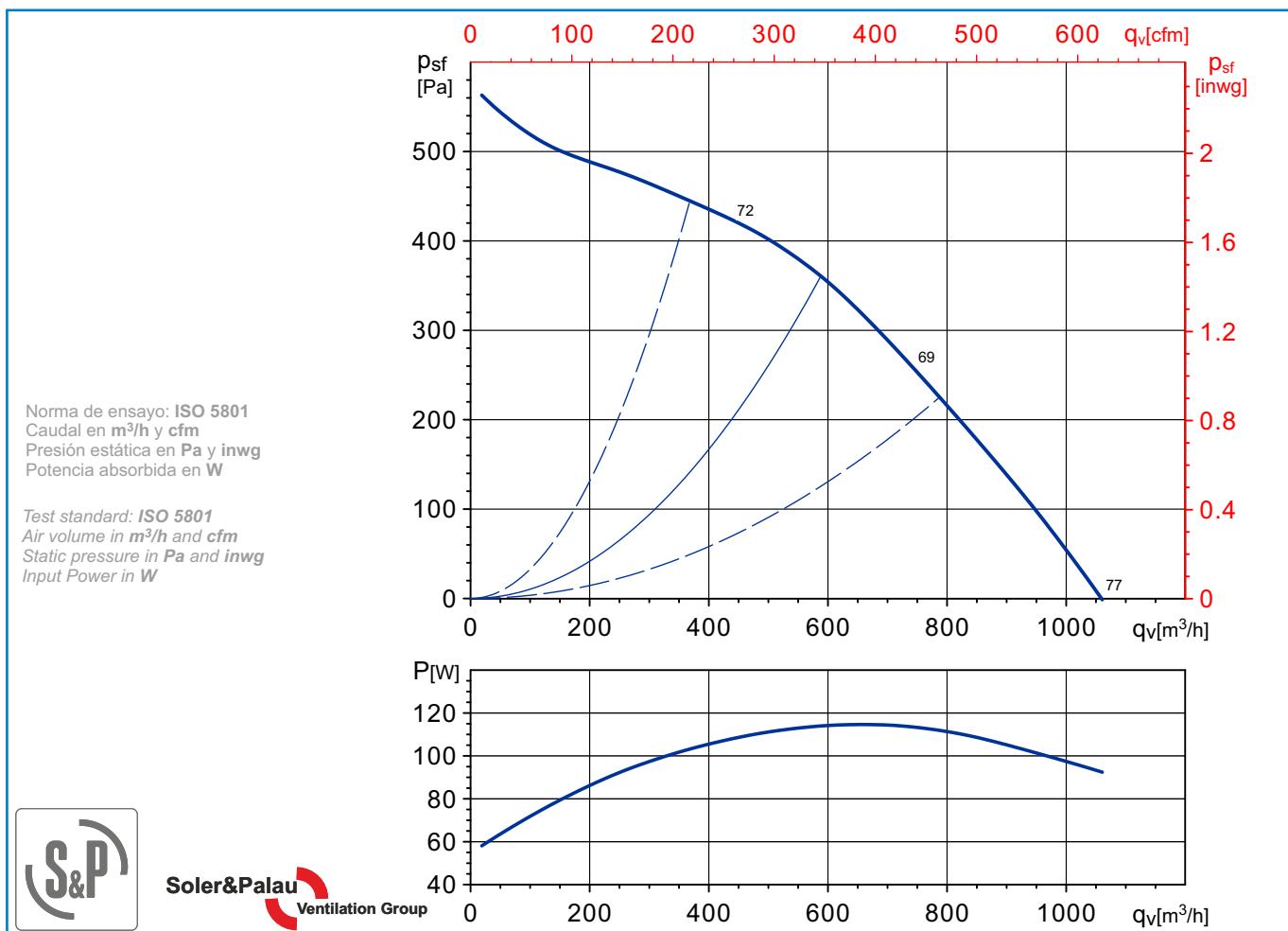


Tensión Voltage	48VDC
Tipo motor Motor type	DC MOTOR - cl.B
Velocidad máxima Maximum speed	2646 RPM
Potencia absorbida máxima Maximum absorbed power	115 W
Intensidad absorbida máxima Maximum absorbed current	2,3 A
Material turbina Wheel material	Plastic
Temperatura del aire Air temperature	-4°F < T < +122°F -20°C < T < +50°C
Peso Weight	3.09 lbs (1,4 kg)
Código ventilador Fan code number	
Código motor Motor code number	

Dimensiones y conexiones
Dimensions and wiring



Curvas características / Performance curves (10/07/2013)



CRBB/1-225/088 M

48VDC

bmax™

Características Characteristics

	Input tension regul. (V)	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (cfm(m³/h))
Model type CRBB/1-225/088M	10	2650	115	2,3	624(1060)

Características acústicas

Acoustic characteristics

Espectro de potencia sonora en aspiración - *Sound power spectrum at the inlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	41	55	62	69	74	70	65	69	77
M	38	48	62	61	64	61	60	55	69
H	42	51	64	67	67	63	59	51	72

Espectro de potencia sonora en descarga - *Sound power spectrum at the outlet*

Hz	63	125	250	500	1000	2000	4000	8000	LwA
L	40	53	66	71	77	77	71	71	82
M	39	48	60	62	67	68	63	56	72
H	42	52	66	69	71	70	61	55	76

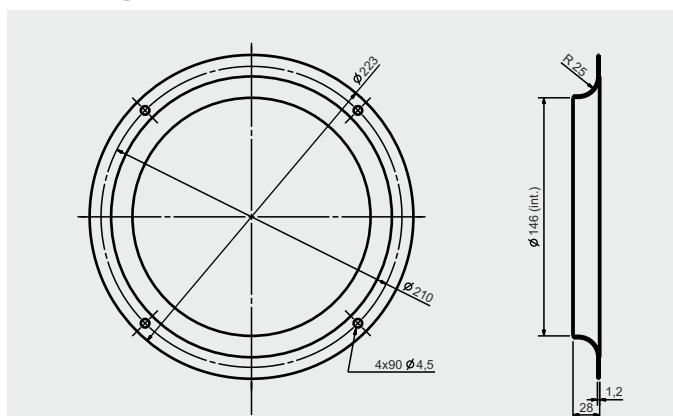
Norma de ensayo: ISO 5801

Especetros de potencia sonora en dB(A)

Test standard: ISO 5801

Sound power spectrum in dB(A)

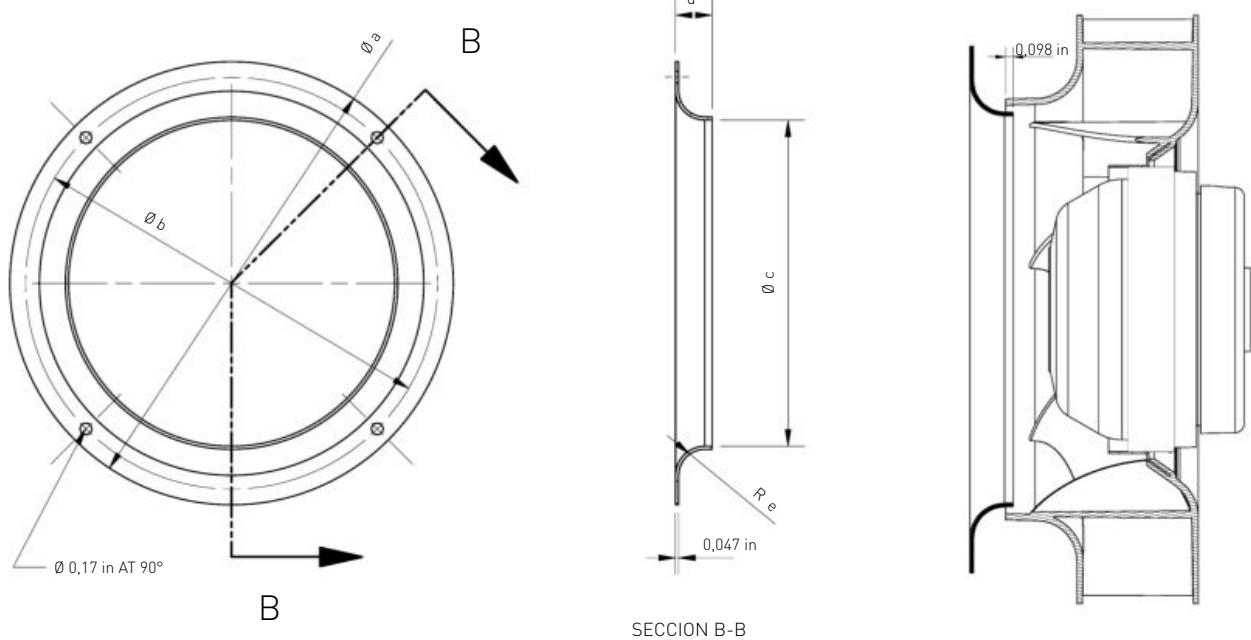
Accesorios de montaje Mounting accessories



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Inlet cone 160/250



Description	a	b	c	d	e	
	in	mm	in	mm	in	mm
INLET CONE 160	6,69	170	6,22	158	4,21	107
INLET CONE 190	6,69	170	6,22	158	4,92	125
INLET CONE 220	9,92	252	9,64	245	5,98	152
INLET CONE 225	8,78	223	8,26	210	5,74	146
INLET CONE 250	10	255	9,44	240	6,45	164
				1,10	1,10	28





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Todos los productos S&P cumplen con las directivas aplicables. Marcado CE
All S&P products are designed to comply with applicable EU directives. CE marked

December 2014 (R.0)

HRB/3-400

IP44

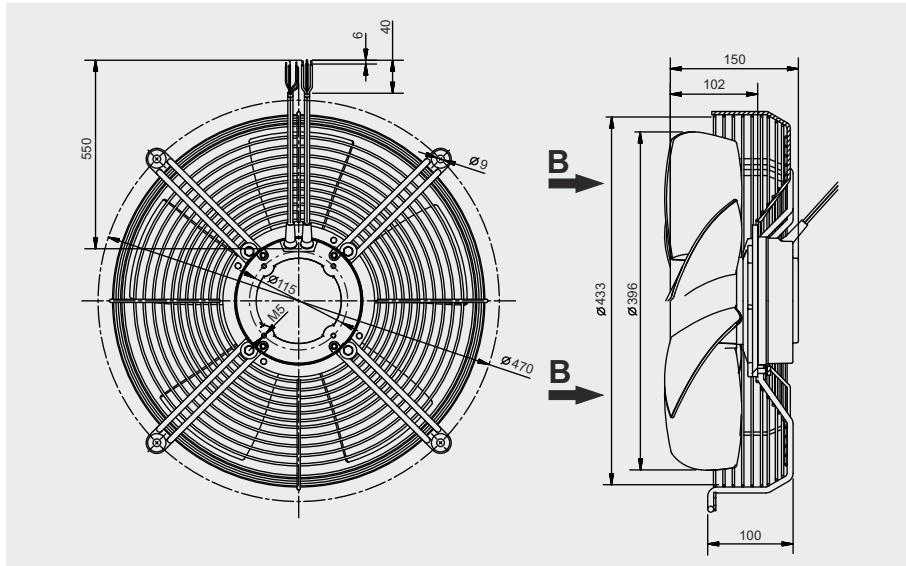
amax™

Otras versiones
Other versions

HRB/3-400-BMPN 3-1450 A

Código ventilador
Fan code number 5752000900

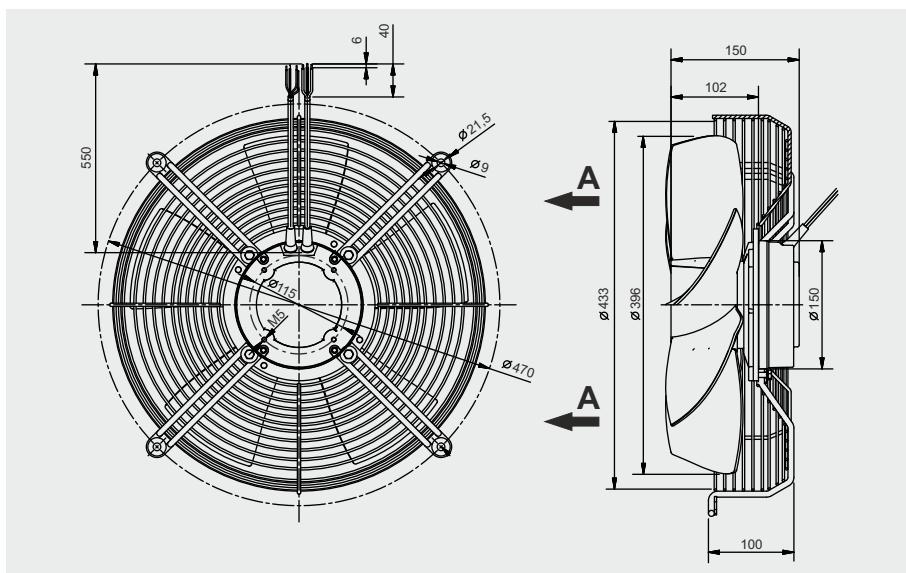
Peso
Weight 6,3 kg



HRB/3-400-AMPN 3-1450 A

Código ventilador
Fan code number 5752001400

Peso
Weight 6,3 kg



HRB/3-450

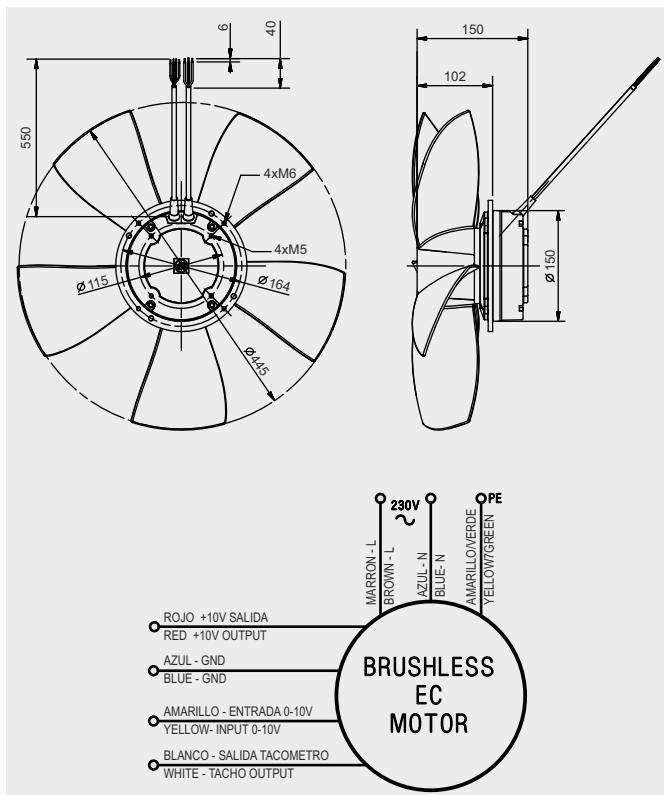
IP44



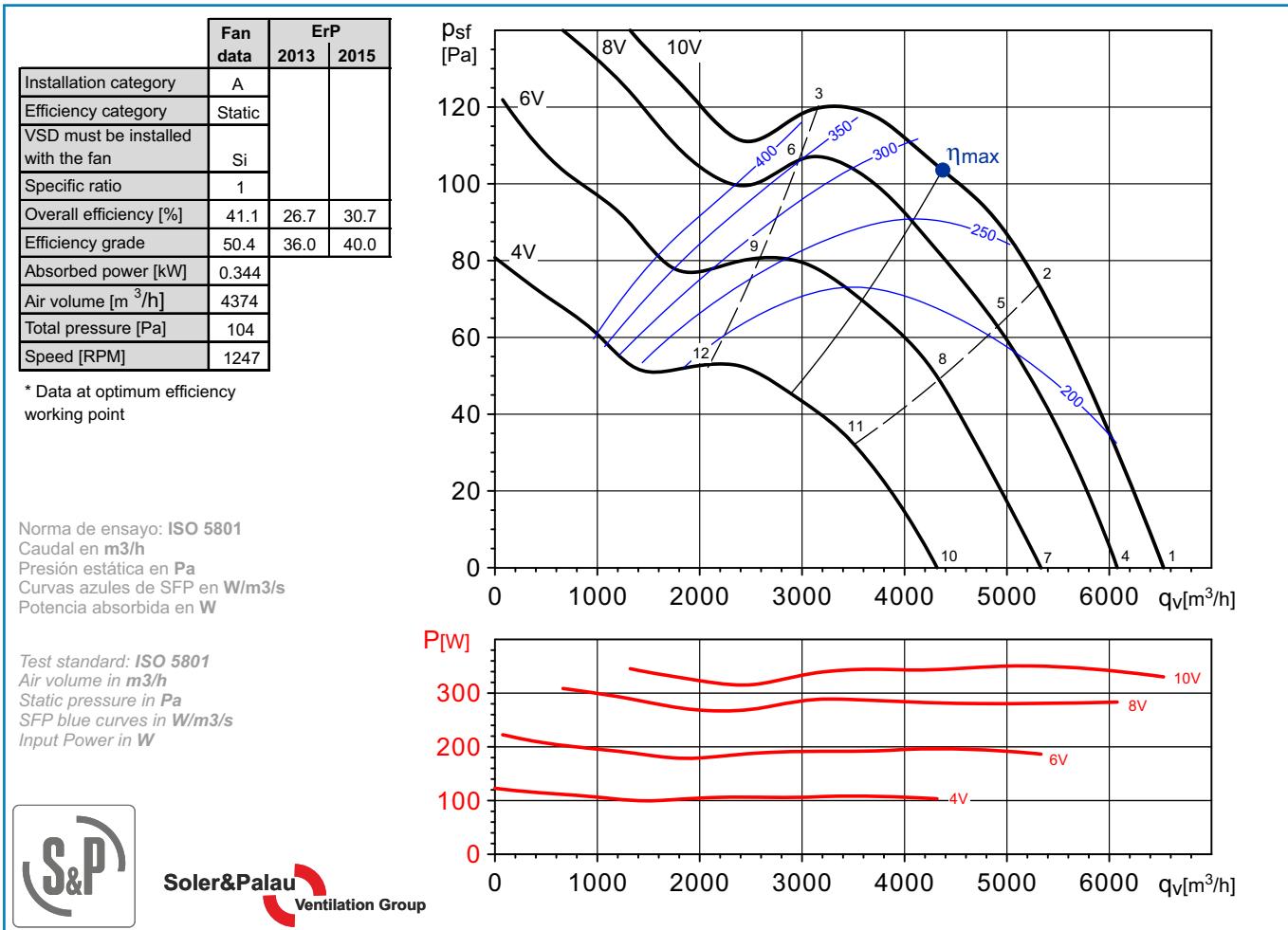
Características Characteristics

Tensión Voltage	1 ~ 230V±10% 50/60Hz
Tipo motor Motor type	EC MOTOR - IP44 cl.B
Velocidad máxima Maximum speed	1250 RPM
Potencia absorbida máxima Maximum absorbed power	351 W
Intensidad absorbida máxima Maximum absorbed current	1,5 A
Material turbina Wheel material	Plastic
Temperatura del aire Air temperature	-20°C < T < +50°C
Peso Weight	3,9 kg
Código ventilador Fan code number	5752000100 HRB/3-450-BMS 3-1250 A
Código motor Motor code number	-----

Dimensions and connections
Dimensions and wiring HRB/3-450 BMS 3-1250 A



Curvas características / Performance curves (12/04/2013)



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Características Characteristics

Model type	Input tension regul. (V)	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (m³/h)
HRB/3-450	10	1250	343	1.4	6530
	8	1170	284	1.2	6080
	6	1030	191	0.8	5330
	4	830	106	0.5	4320

Leackage current: <= 3.5 mA

EMC interference immunity according to: EN 61000-6-1

EMC interference immunity according to: EN 61000-6-2

EMC interference emission according to: EN 61000-6-3

EMC interference emission according to: EN 61000-6-4

EMC harmonics according to: EN 61000-3-2

Control input 0-10 VDC / PWM (Speed adjustment input). - Soft start.

Tacho output.

Output 15 VDC, max. 100 mA

Output 10 VDC, max. 2.5 mA

Alarm relay

PROTECTIONS:

- Locked-rotor protection.
- Motor current limit.
- Over-torque protected.
- Over-temperature protected electronics / motor.
- Line undervoltage detection.

Características acústicas

Acoustic characteristics

Working point	63	125	250	500	1000	2000	4000	8000	LwA	
1	INLET	43	56	63	71	73	73	68	57	78
	OUTLET	47	60	66	72	73	72	68	59	78
2	INLET	42	54	62	69	70	70	66	56	75
	OUTLET	46	59	65	70	70	69	66	58	76
3	INLET	54	59	65	69	70	69	65	57	75
	OUTLET	66	68	72	73	74	70	62	53	79
4	INLET	43	55	63	70	72	72	66	55	77
	OUTLET	45	59	65	70	71	70	66	56	76
5	INLET	42	54	62	68	69	69	65	55	74
	OUTLET	45	58	64	69	69	68	65	56	75
6	INLET	52	58	65	68	68	68	63	56	74
	OUTLET	64	66	70	71	72	68	60	51	77
7	INLET	45	50	62	65	69	68	61	50	73
	OUTLET	49	53	62	66	67	66	61	50	72
8	INLET	44	50	59	63	64	65	60	49	70
	OUTLET	47	53	61	64	64	64	60	50	70
9	INLET	49	55	61	62	64	64	58	50	69
	OUTLET	60	63	65	68	68	64	55	46	73
10	INLET	42	48	58	60	64	63	55	43	68
	OUTLET	44	50	58	62	64	62	55	44	68
11	INLET	39	47	55	59	61	62	55	43	66
	OUTLET	43	50	56	62	61	60	54	43	67
12	INLET	43	51	56	58	60	59	53	44	65
	OUTLET	51	59	62	64	63	59	51	41	69

Norma de ensayo: ISO 5801

Especetros de potencia sonora en dB(A)

Test standard: ISO 5801

Sound power spectrum in dB(A)



Soler&Palau
Ventilation Group

HRB/3-450

IP44

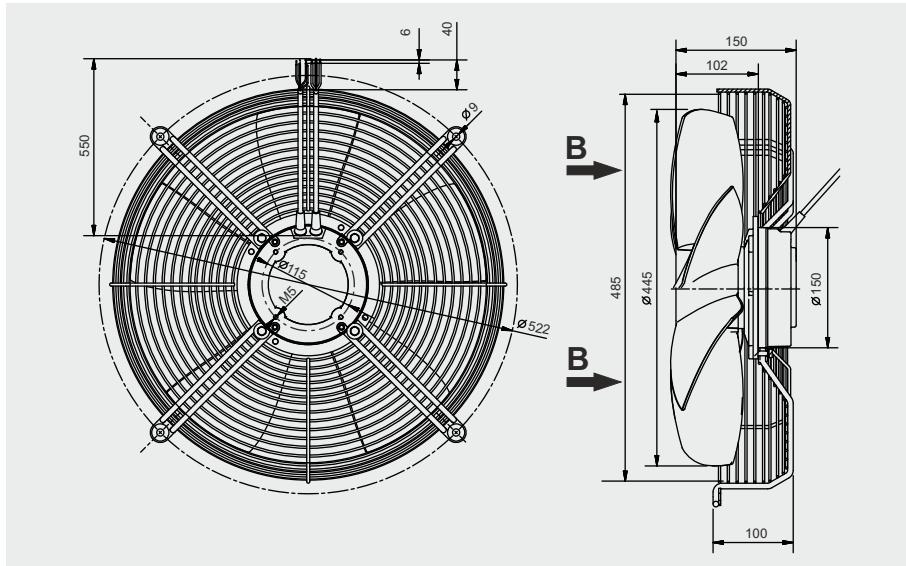
amax™

Otras versiones
Other versions

HRB/3-450-BMPN 3-1250 A

Código ventilador
Fan code number 5752001000

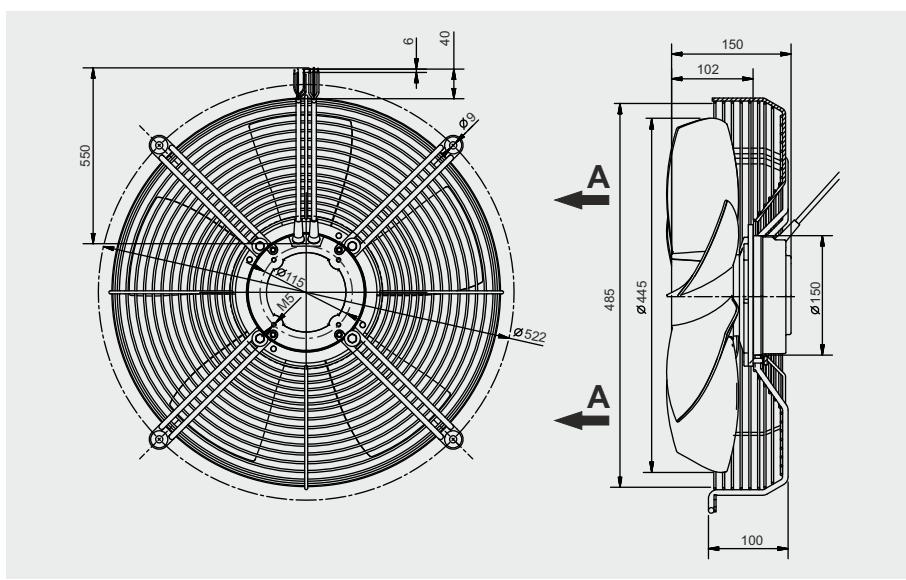
Peso
Weight 6,6 kg



HRB/3-450-AMPN 3-1250 A

Código ventilador
Fan code number 5752001500

Peso
Weight 6,6 kg







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