

Author: I. BOULAY

Date of the revision 2022-12-08: Creation of the technical file

For consultation
Revision of datasheet in writing

RANGE: Backward curved centrifugal fans with single phase asynchronous motor

OEP	Test	LX48Ba	Customer	Rosenberg US
	Winding	R04	Reference	
Drawing of the product		Designation	2RREu45 250x50R	



ELECTRICAL DATA

Speed	SGV	SGV
Tension (V)	120	120
Frequency (Hz)	50	60
Current (A)	1.34	2.00
Maximum current (A)	2.02	2.93
Power (W)	160	231
Maximum power (W)	220	318
Rotation (RPM)	2795	3210
Cos Φ	0.995	0.963
Temperature min/max (°C)	-40/+60	-40/+70
Capacitor (µF)	25.00	25.00
U_condo (V)	250	250
Comments	free airflow	free airflow

Winding temperature cold (Temperature at 20°C, tolerances 7%)

PP	PA
7.7 Ohm	8.0 Ohm

Temperature variation ()

F (Hz)	Average elevation (°K)	Speed
50 Hz	83 °K	SGV
60 Hz	67 °K	SGV

Dielectric strength 1300 VAC 60 seconds

Direction of rotation CW

MARKING & STANDARDS

Conformity

- **CE**
- **UKCA**
- **UL 2RS945 2111 REC92 MonoPhasé**
(XEWR2,8)
File number E135223

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TECHNICAL DATA

Description

- Weight: 3.00 kg
- With Condensat Drain Holes
- Class F
- Protection level: 44 | Protection against ingress of solid with diameter ≥ 1 mm / Protection against ingress of water : splashing
- Motor's protection T150° C UL Automatic reset
- Bearing type: 2 ball bearings 608ZZ
- Balance level: G2.5

Special features

- any

Limiting conditions of operation

- any

ADDITIONAL DATA

Documentations

- Operating and recycling manual
<http://www.ecofit.com/anglais/normes>

Measurement setup

- Ouie 16234-a Ouie Ø290Ex Ø166Int GALVA

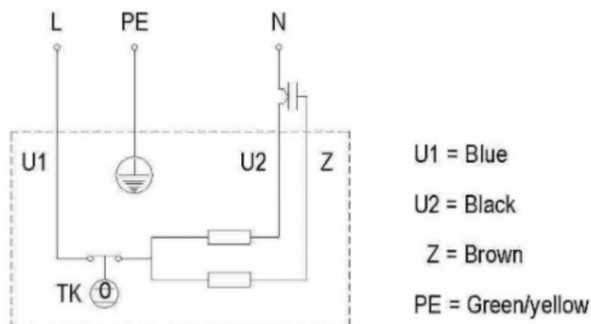
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CONNECTORS

Wiring diagram



ERP DATA

ErP Directive ErP (EU 2009/125/EC) not applicable:

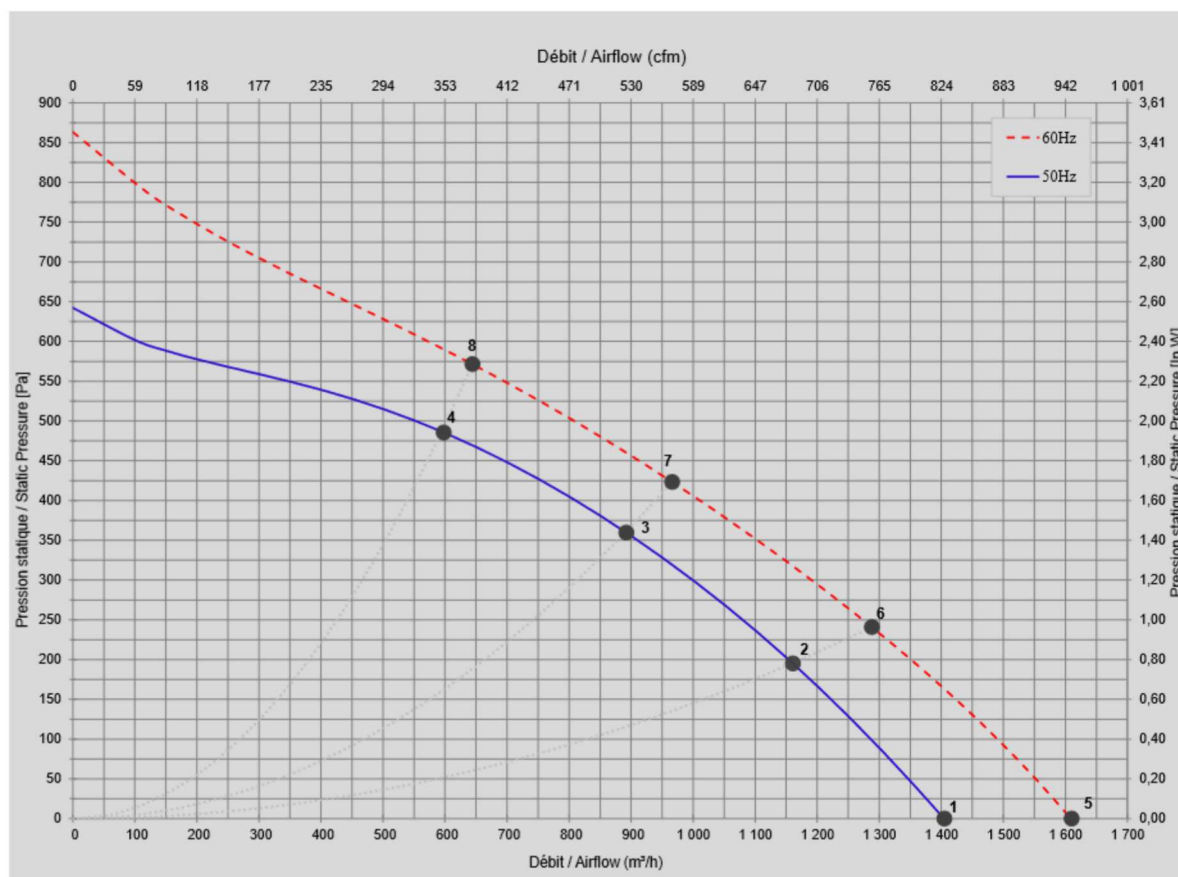
- Power at optimum energy efficiency point <125W

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TECHNICAL DATA



Mesures / Measured Values *

	Un (V)	F (Hz)	C (µF)	P (W)	n (RPM)	Q (m³/h)	P (Pa)	Q (cfm)	P (in.W)	Lp _{in} (dBA)
1	120	50	25	160	2795	1 405	0	827	0,000	
2	120	50	25	193	2710	1 161	195	683	0,781	
3	120	50	25	216	2648	892	360	525	1,441	
4	120	50	25	217	2650	598	486	352	1,945	
5	120	60	25	231	3210	1 610	0	948	0,000	
6	120	60	25	280	3009	1 288	241	758	0,965	
7	120	60	25	311	2869	966	423	569	1,696	
8	120	60	25	312	2876	644	571	379	2,289	

* Air performance measured according to: ISO 5801, installation category C.

Intake-side sound level: according to ISO 3744, LpA measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation