Product Data Sheet

9204305008 VWC0080XSJAZ AC 8300 HU-008







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AC 8300 HU-008

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1 General

Fan type	Fan
Rotating direction looking at rotor	Clockwise
Airflow direction	Air outlet over struts
Bearing system	Ball bearing
Mounting position - shaft	Any

2 Mechanics

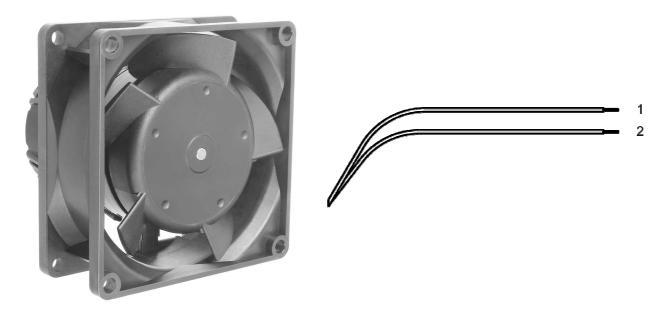
2.1 General

Width	80,0 mm	
Height	80,0 mm	
Depth	32,0 mm	
Diameter	0,0 mm	
Mass	0,325 kg	
Housing material	Plastic	
Impeller material	Plastic	

2.2 Connections

Electrical connection	Wires	
Lead wire length	L = 500 mm	
Tolerance	+- 10 mm	
Tube length	S = 15 mm	
Tolerance	+- 5 mm	
Wire size (AWG)	22	
Insulation diameter	1,5 mm	
Plug	See drawing	
Contact	See drawing	





Wire	Color	Operation
1	black	L1
2	black	L2

3 Operating Data

3.1 Electrical Interface - Input

External voltage supply for input and output signals must be SELV conform.

Control input	None
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Features

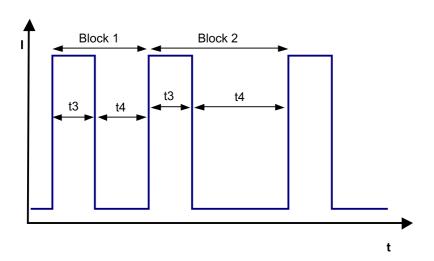
3.2 Electrical Operating Data

Features	Condition	Symbol		Val	ues	
Voltage range Tolerance		U	85 V			265 V
Nominal voltage		U _N		115 V / 230 V	115 V / 230 V	
Frequency		f	50 Hz / 60 Hz			
Power consumption Tolerance	$\Delta p = 0$	Р	9,8 W +- 30 %			
Current consumption	$\Delta p = 0$	I _{RMS}	166 mA	127 mA	61 mA	57 mA
Tolerance			+- 30 %	+- 30 %	+- 30 %	+- 30 %
Speed			5.000 1/min			
Tolerance	$\Delta p = 0$	n	+- 7,5 %			



3.3 Electrical Features

Electronic function	None	
Locked rotor protection	Auto restart	
Clock signal at locked rotor	t ₃ /t ₄ typical: 0,8 s / 20 s	





3.4 Aerodynamics

Measurement conditions:

Measured with a double chamber intake rig acc. to DIN EN ISO 5801.

Normal air density = 1,2 kg/m3; Temperature 23°C +/ - 3°C;

In the intake and outlet area should not be any solid obstruction within 0,5 m. Motor shaft

horizontal.

The information is only valid under the specified test conditions and may be changed by the installation conditions. If there are deviations from the standard test conditions, the

characteristic values must be checked under the installed conditions.

a) Operation condition:

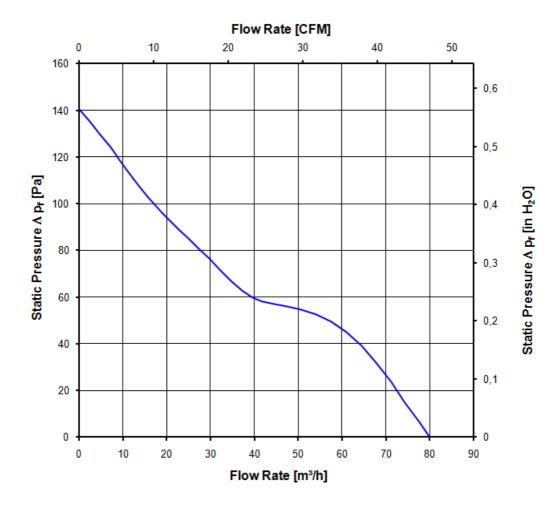
5.000 1/min at free air flow Frequency: 50 Hz Nominal voltage: 115 V / 230 V

Max. free-air flow ($\Delta p = 0 / \dot{v} = max.$)	80,0 m3/h
Max. static pressure ($\Delta p = \text{max.} / \dot{v} = 0$)	140 Pa

b) Operation condition:

5.000 1/min at free air flow Frequency: 60 Hz Nominal voltage: 115 V / 230 V

Max. free-air flow ($\Delta p = 0 / \dot{v} = max.$)	80,0 m3/h
Max. static pressure ($\Delta p = \text{max.} / \dot{v} = 0$)	140 Pa





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3.5 Sound Data

Measurement

Sound pressure level: 1 meter distance between microphone and the air intake.

conditions:

Sound power level: Acc. to DIN 45635 part 38 (ISO 10302)

Measured in a semianchoic chamber with a background noise level of Lp(A) < 5 dB(A)

For further measurement conditions see chapter aerodynamics.

a) Operation condition:

5.000 1/min at free air flow Frequency: 50 Hz Nominal voltage: 115 V / 230 V

Optimal operating point	45,0 m3/h @ 50,0 Pa	
Sound power level at the optimal operating point	6,2 bel(A)	
Sound pressure level at free air flow, measured in rubber bands	50,0 dB(A)	

b) Operation condition:

5.000 1/min at free air flow Frequency: 60 Hz Nominal voltage: 115 V / 230 V

Optimal operating point	45,0 m3/h @ 50,0 Pa	
Sound power level at the optimal operating point	6,2 bel(A)	
Sound pressure level at free air flow, measured in rubber bands	50,0 dB(A)	



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4 Environment

4.1 General

Min. permitted ambient temperature TU min.	-20 ℃	
Max. permitted ambient temperature TU max.	70 ℃	
Min. permitted storage temperature TL min.	-40 ℃	
Max. permitted storage temperature TL max.	80 ℃	

4.2 Climatic Requirements

IP-protection type (certified)	IP 65 (for fan only, not for connector if applicable) **)
Humidity requirements	humid temperature, cyclic; according to DIN EN 60068-2-38, 10 cycle and condensation water check; according to DIN EN ISO 6270-2, 14 days
Salt fog requirements	None

Permitted application area:

The product is for the use in partial sheltered rooms or open, roofed areas. Direct exposure to water is allowed provided that this does not prevent the normal operation. Saline ambient conditions must be avoided.

Pollution degree 3 (according DIN EN 60664-1)

It occurs conductive pollution or dry non-conductive pollution which becomes conductive due to condensation.

Short description of the IP-protection type:

Solid particle Protection: Dust tight.

Protection against deliberate contact: Protected against contact to hazardous parts with a wire.

Protection against water: Protected against water jets.



^{**)} The specification of the IP protection refers to the conditions mentioned in certification of the fan. The above mentioned short description of the protection scope is not final. For detailed information of the respective protection scope and definitions, see certification as well as DIN EN 60529 (protection by housings) and ISO 20653 (for vehicles) with the letter K.

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5 Safety

5.1 Electrical Safety

A verification of thermal conditions (normal and abnormal operation) as well as the protection against electric shock, ingress of solid foreign objects and water has to be done in conjuction with the appliance.

Test voltage HV type test	1500 V
Unit test voltage	VAC
Time type test HV	1 s
Insulation resistance	RI > 10 MOhm
Protection class	built-in fan

5.2 Approval Tests

CE	EC Declaration of Conformity	Yes
EAC	Eurasian Conformity	Yes
UL	Underwriters Laboratories	Yes / UL507, Electric Fans E38324
VDE	Association for Electrical, Electronic and	Yes / Approval acc. to EN 60335 (VDE 0700) - Safety for
	Information Technologies	household and similar electrical appliances
CSA	Canadian Standards Association	Yes
CCC	China Compulsory Certification	Yes / GB 12350 Safety Requirements for small Power Motors

According to the guidelines on the application of Directive 2006/95/EC, chapter III: Scope of the "low voltage" directive, paragraph: Are "components" included in the scope? the following has to be applied:

However, some types of electrical devices, designed and manufactured for being uses as basic components to be incorporated into other electrical equipment, are such that their safety to a very large extent depends on how they are integrated into the final product and the overall characteristics of the final product. These basic components include electronic and certain other components.

Taking into account these objectives of the "Low Voltage" Directive, such basic components, the safety of which can only, to a very large extend, be assessed taking into account, <u>how</u> they are incorporated and for which a risk assessment cannot be undertaken, then they are <u>not</u> covered as such by the Directive. In particular, they must not be CE marked unless covered by other Community legislation that requires CE marking.



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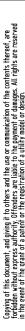
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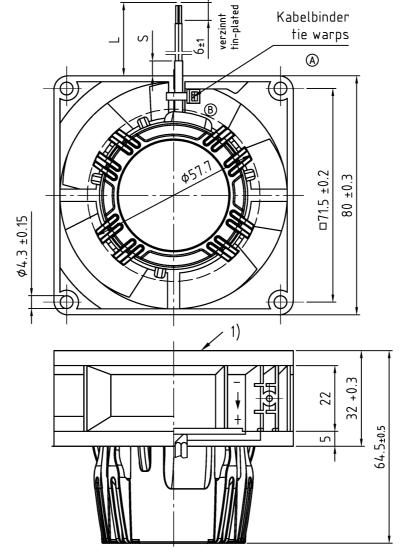
6 Reliability

6.1 General

Life expectancy L10 at TU = 40 ℃	55.000 h	
Life expectancy L10 at TU max.	25.000 h	
Life expectancy L10 acc. to IPC 9591 at TU = 40 ℃	92.5 00 h	







Anzahl und Länge der Litzen (L) sowie Länge Schlauch (S) siehe Produktspezifikation Length (L) and number of wires and length (S) of tube see design specification

- 1) Rotorüberstand max.0.4mm zulässig
- 1) impeller projecting maximal 0.4mm allowable
- Axialspiel bei -Kugellagerung: 0 (Federverspannung)
 - -Gleitlagerung (G): 0.1 0.5mm
- axial clearance by ball bearings: 0 (spring-tension) floating bearings (G): 0.1–0.5mm

	<u> </u>		
, ,	7167 ISO 2768-mK-E		
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