K3G200-AC56-12

EC centrifugal fan

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

ErP2015 EXCEEDS THE NORM

Nominal data

Type	**K3G200-AC56-12**
Motor	**M3G084-CA**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	6500
Power input	W	850
Current draw	A	4.3 @ 200 V
Min. ambient temperature	°C	10
Max. ambient temperature	°C	56

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.01

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		38.2	35.2	38.2
Efficiency grade N		50	47	50
Power input P_{ed}	kW	0.76		
Air flow q_v	m^3/h	805		
Pressure increase p_{fs}	Pa	1170		
Speed n	min^{-1}	6515		

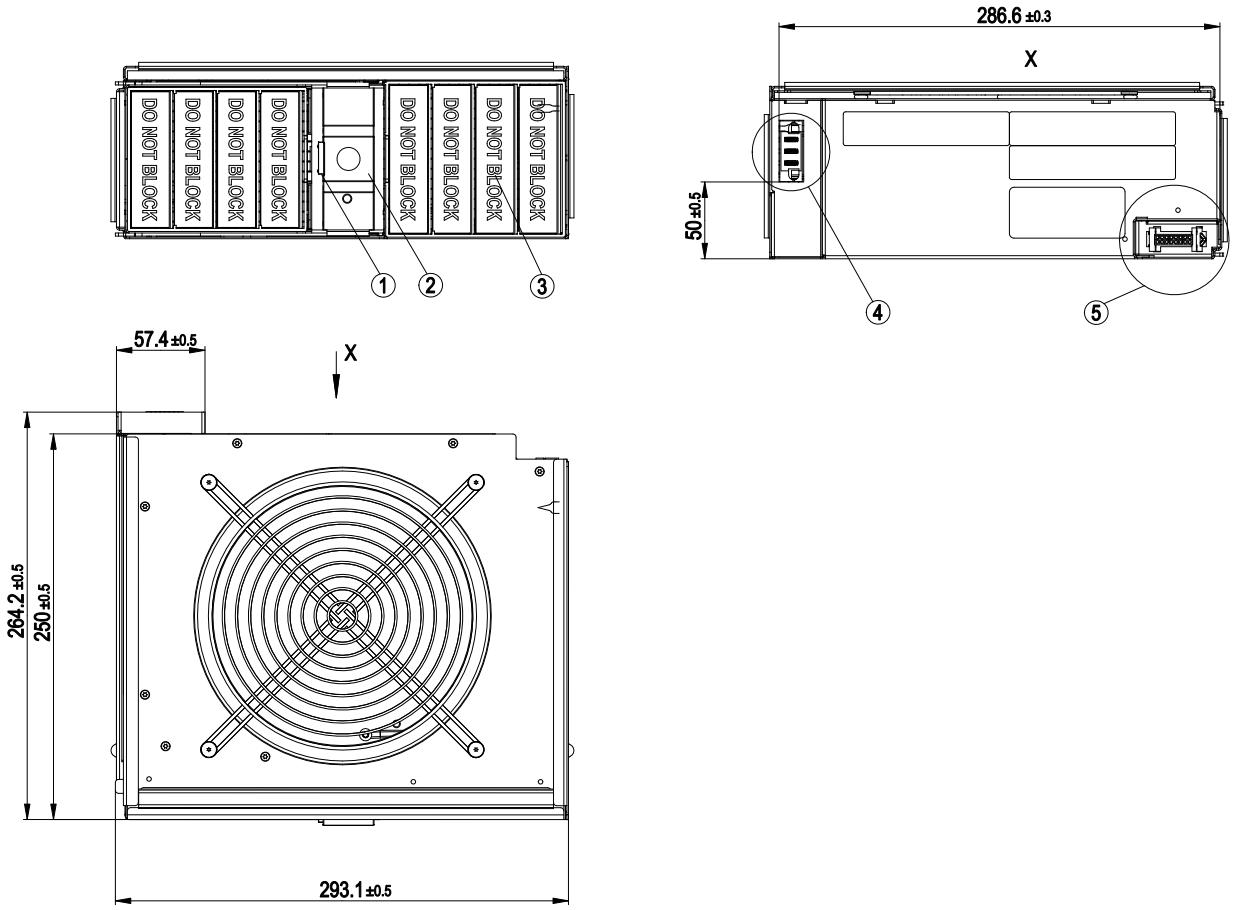
Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

Technical features

Mass	5.7 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Housing material	Sheet steel, galvanised
Material of guard grille	Steel, galvanised and plastic-coated in white aluminium (RAL 9006)
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+60 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Rotor on top; rotor on bottom
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	CE
Approval	UL 507; CSA C22.2 Nr.113; CCC

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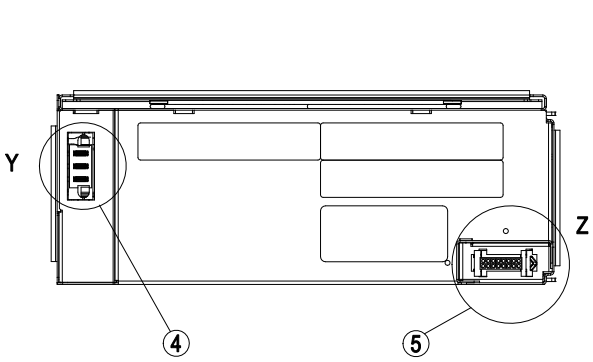
Product drawing

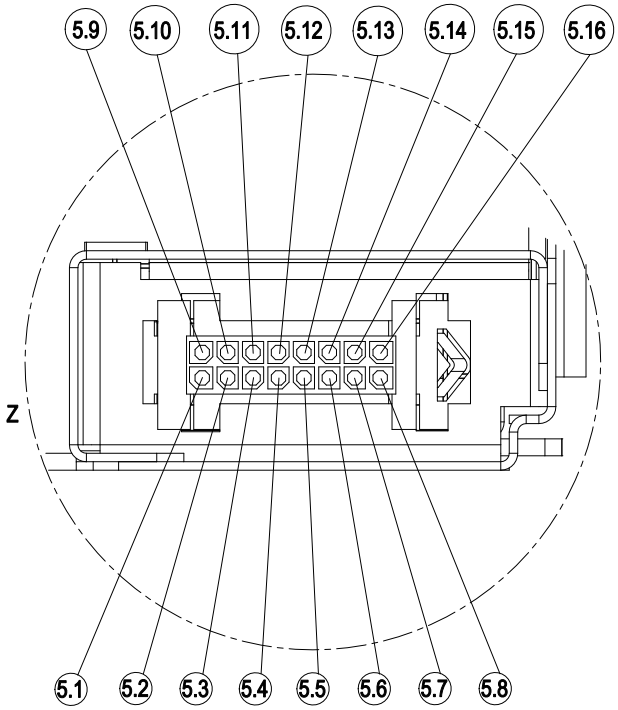


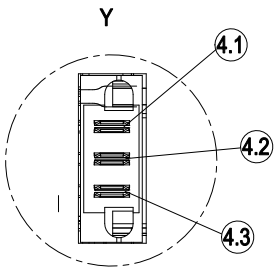
X	View
Y	Detail view
Z	Detail view
1	Snap fastener
2	Handle
3	Non-return valve (8 x)
4	Connector housing FCI 51939-081LF/Tyco 6450123-3
5	Connector housing Molex, order no. 44133-1601 with 16 x female connector Molex, order no. 43030-0003

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Connection screen



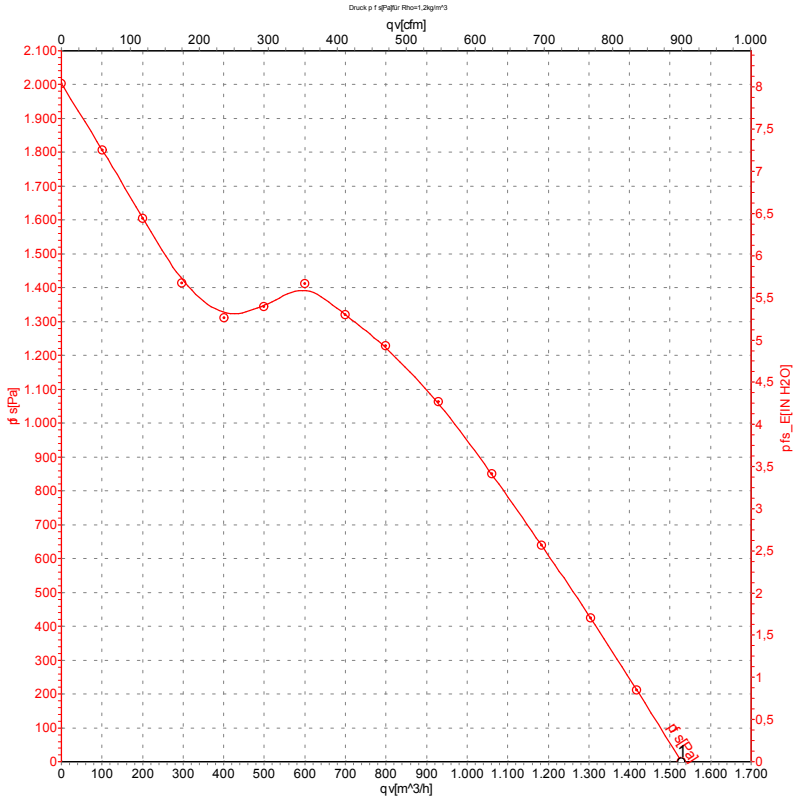




4.1	L (fused)	4.2	GND	4.3	N
5.1	5 V A	5.2	I²C reset	5.3	I²C A interrupt
5.4	I²C A SDA	5.5	I²C A SCL	5.6	MM select A
5.7	Tach out	5.8	GND	5.9	GND
5.10	Presence	5.11	I²C B interrupt	5.12	I²C B SDA
5.13	I²C B SCL	5.14	MM select B	5.15	Tach in
5.16	5 V B				

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Charts: Air flow



Measurement: LU-127451

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	n	P_{ed}	I	LpA_{in}	LwA_{in}	qv
	V	min^{-1}	W	A	dB(A)	dB(A)	m^3/h
1	230	6500	850	3.75	87	95	1530

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow

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