D3G200-BB22-71

EC centrifugal fan

forward curved, dual inlet

with housing (flange)



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Nominal data

Type	**D3G200-BB22-71**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	207 .. 253
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1640
Power input	W	465
Current draw	A	3.0
Min. back pressure	Pa	225
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

Data in accordance with ecodesign regulation EU 327/2011 (EN 17166)

		Actual	Request 2015
01 Overall efficiency η_{es}	%	48.1	34.4
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		57.7	44
05 Variable speed drive		Yes	

09 Power input P_{ed}	kW	0.29
09 Air flow q_v	m^3/h	1255
09 Pressure increase p_{fs}	Pa	368
10 Speed (rpm) n	min^{-1}	1750
11 Specific ratio*		1.00

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

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

LU-131521

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Technical features

Mass	10 kg
Size	200 mm
Motor size	84
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminum
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor anti-vibration mounted on one side via brackets
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal
Condensation drainage holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limit - PFC, passive - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor - Line undervoltage detection
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	EAC

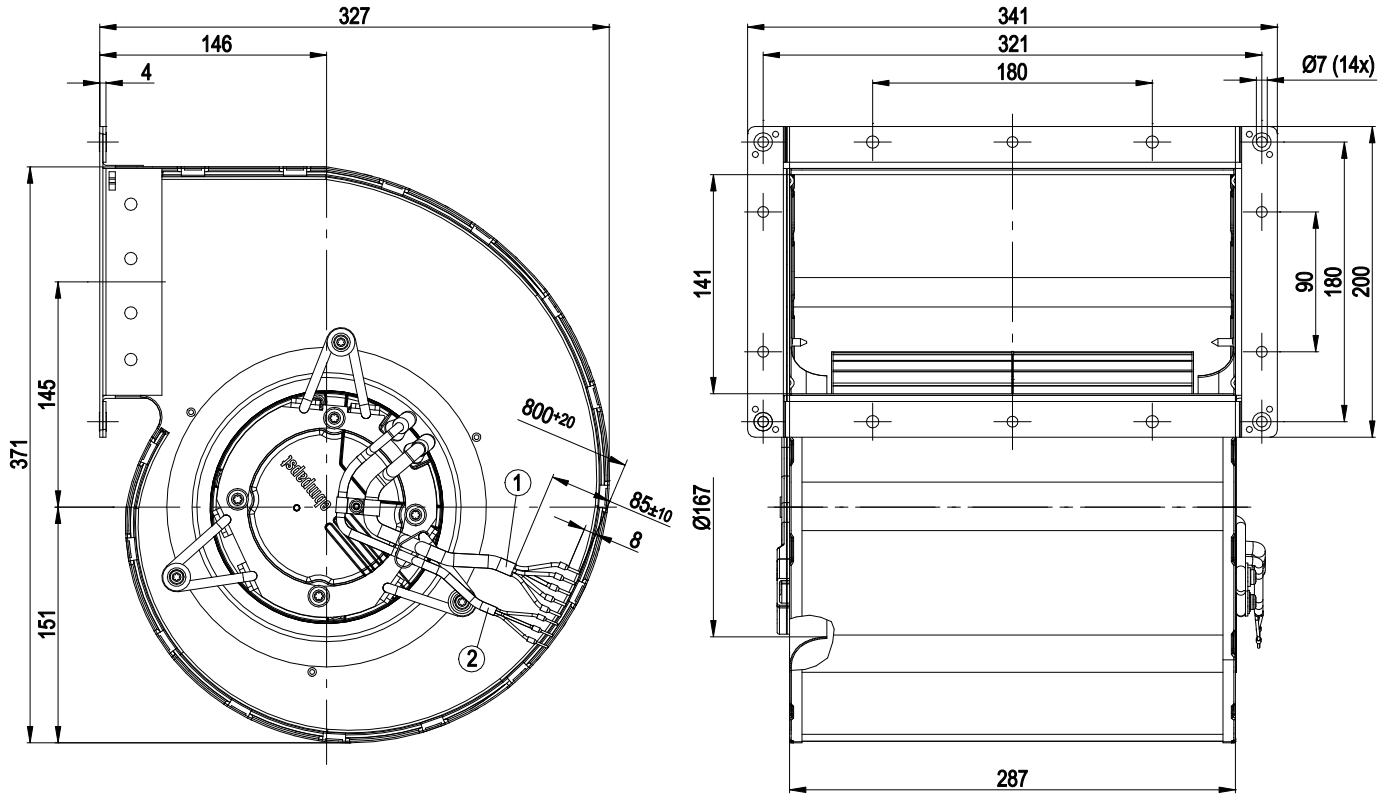
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Product drawing



1	Connection line PVC AWG18, 5x crimped core-end sleeves
2	Connection line PVC AWG22, 3x crimped core-end sleeves

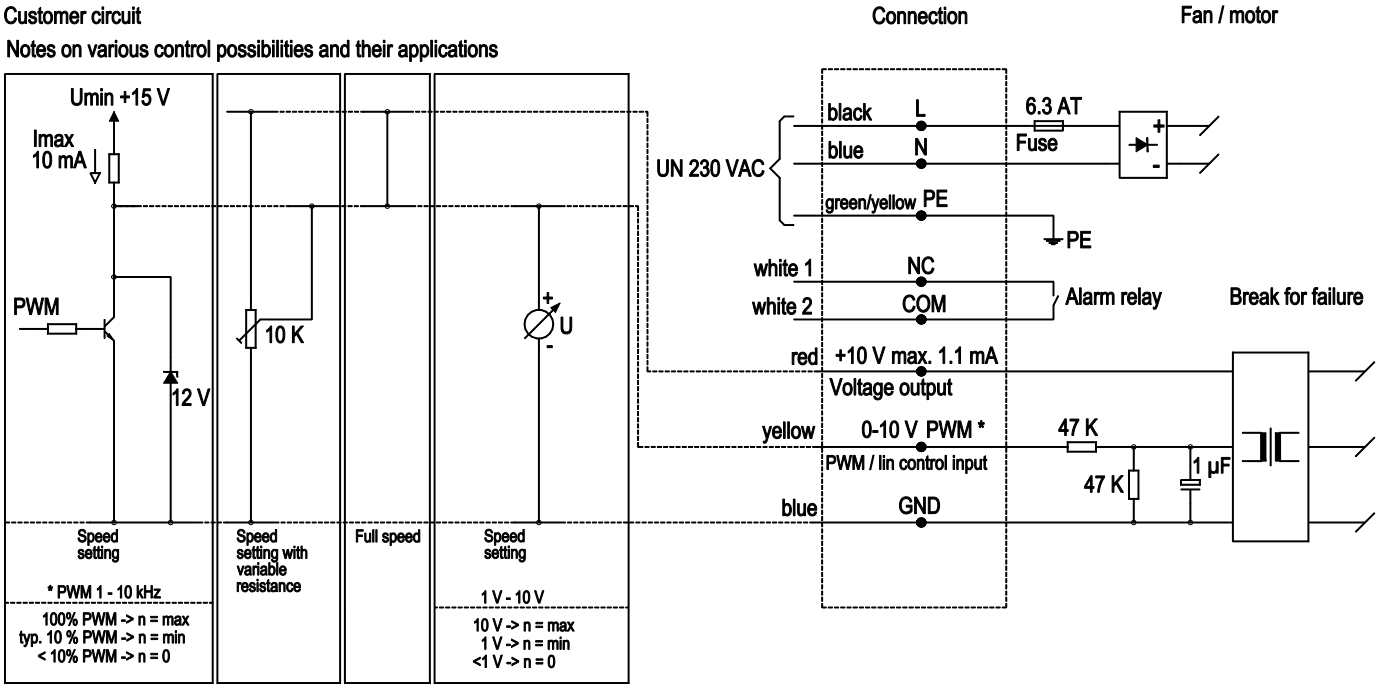
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Connection screen



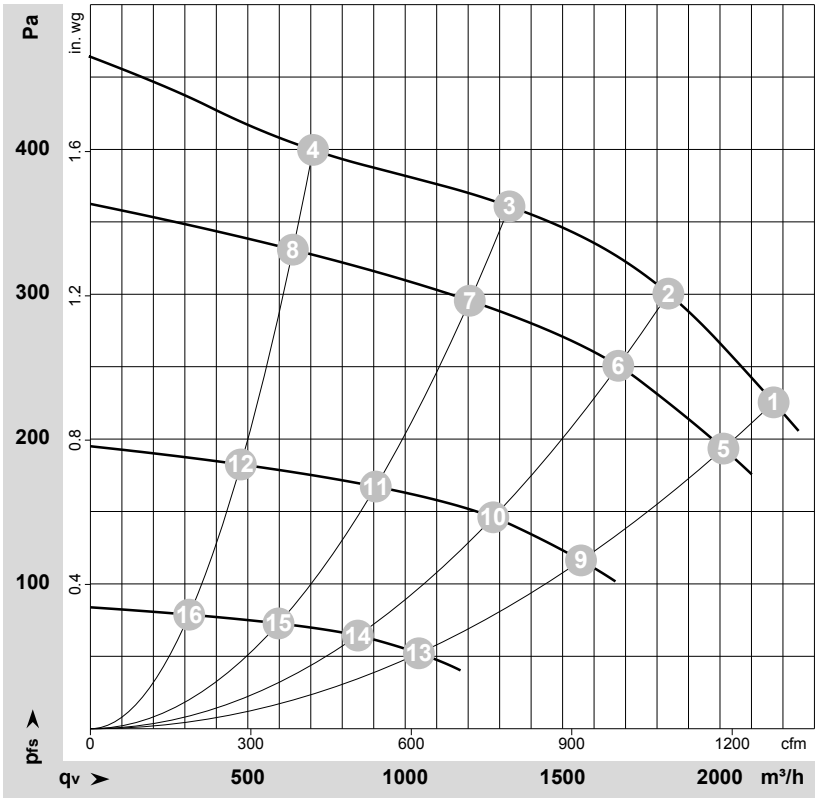
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-131521-1
Measurement: LU-186937-1
Measurement: LU-186939-1
Measurement: LU-186941-1

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	f	n	P_{ed}	I	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	230	50	1640	465	3.00	64	77	2170	225	1275	0.90
2	230	50	1665	399	2.62	63	76	1835	300	1080	1.20
3	230	50	1740	312	2.07	62	75	1330	360	785	1.45
4	230	50	1815	226	1.52	65	77	705	400	415	1.61
5	230	50	1490	356	2.37	63	76	2010	196	1185	0.79
6	230	50	1540	307	2.05	62	75	1675	252	985	1.01
7	230	50	1590	246	1.66	61	74	1205	309	710	1.24
8	230	50	1625	190	1.31	63	75	645	334	380	1.34
9	230	50	1155	164	1.14	56	69	1560	118	920	0.47
10	230	50	1175	137	0.97	55	68	1280	147	755	0.59
11	230	50	1200	107	0.78	54	67	905	174	535	0.70
12	230	50	1210	84	0.62	56	68	480	184	280	0.74
13	230	50	770	51	0.41	47	60	1045	53	615	0.21
14	230	50	785	44	0.36	46	58	850	65	500	0.26
15	230	50	795	36	0.30	45	57	600	75	350	0.30
16	230	50	800	31	0.26	46	57	315	79	185	0.32

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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