G3G225-DD29-74

EC centrifugal fan

forward curved, single inlet

with housing (flange)

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Nominal data

Type	**G3G225-DD29-74**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1790
Power input	W	531
Current draw	A	3.4
Min. back pressure	Pa	300
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45

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

		Actual	Request 2015
01 Overall efficiency η_{es}	%	46.9	35
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		55.9	44
05 Variable speed drive		Yes	

09 Power input P_{ed}	kW	0.38
09 Air flow q_v	m^3/h	1055
09 Pressure increase p_{fs}	Pa	551
10 Speed (rpm) n	min^{-1}	1940
11 Specific ratio*		1.01

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

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Technical features

Mass	9.7 kg
Size	225 mm
Motor size	84
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Direction of rotation	Counter-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	Any
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	UL 1004-3 + 60730-1; EAC; CSA C22.2 no. 77 + CAN/CSA-E60730-1

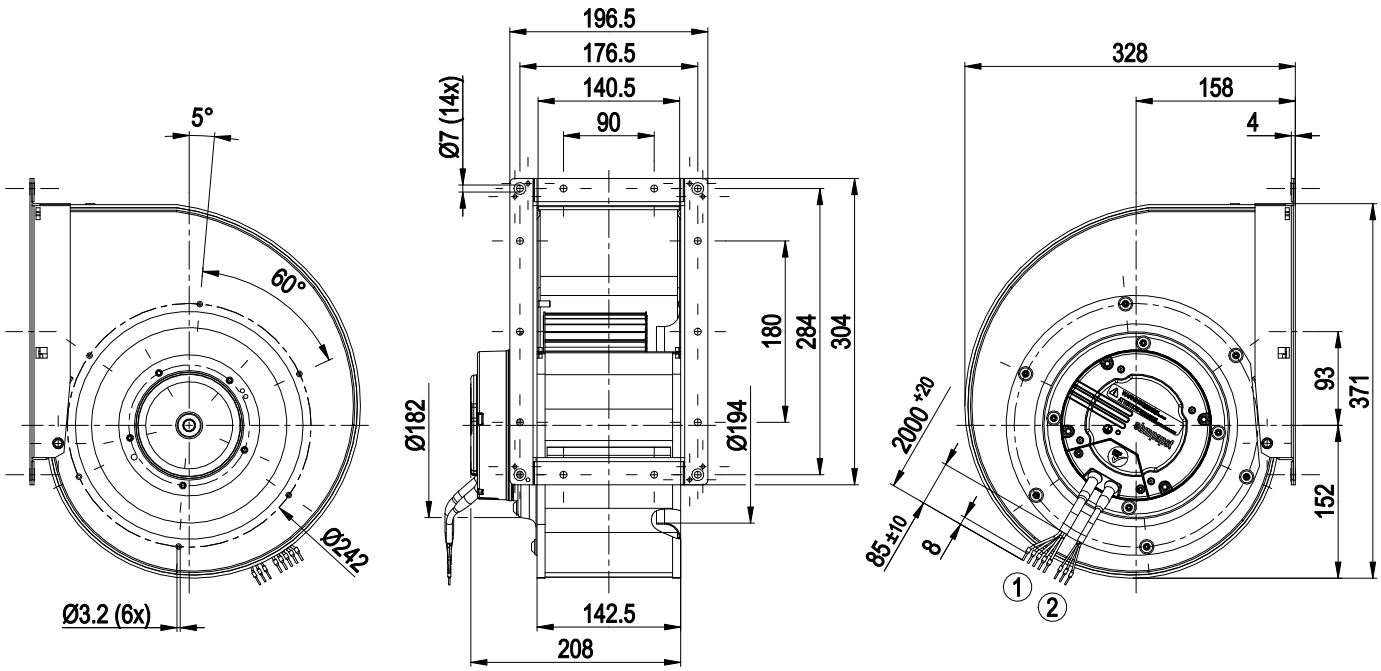
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Product drawing



1	Connection line halogen-free, BETAtrans® 3 GKW flex, 5G 1.0 mm², 5x crimped core-end sleeves
2	Connection line halogen-free, BETAtrans® 3 GKW flex, 3x 0.33 mm², 3x crimped core-end sleeves

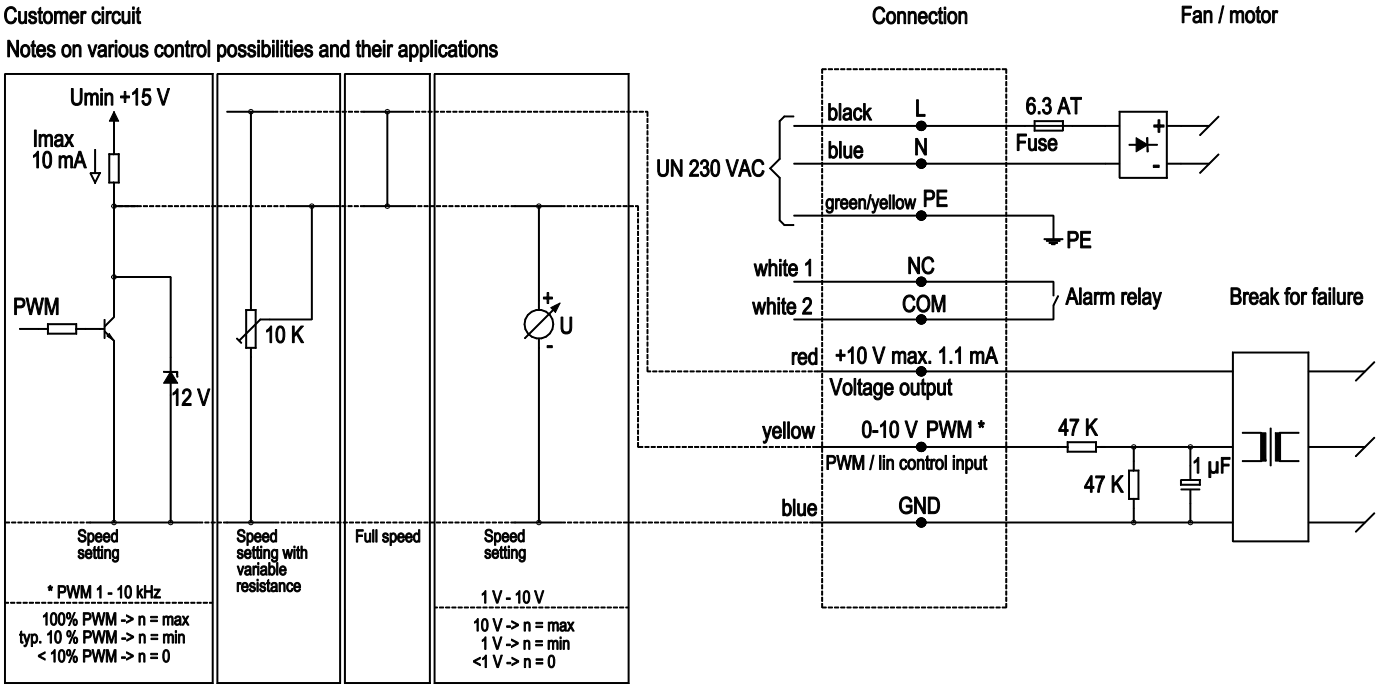
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Connection screen



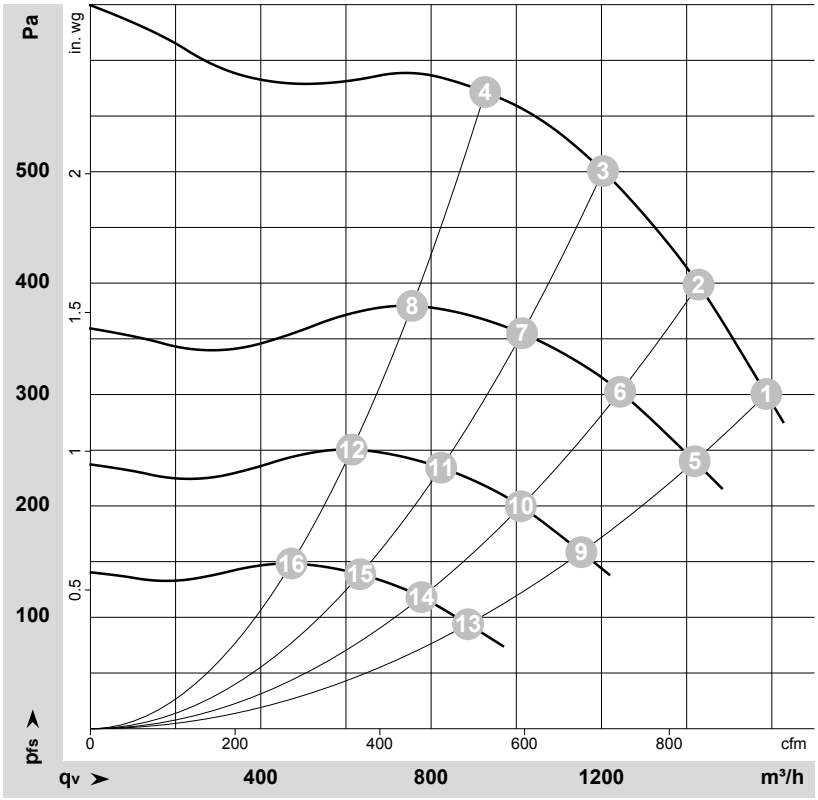
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Charts: Air flow



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-69139-1

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	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	1790	531	3.40	1585	300	935	1.20
2	230	1835	483	3.11	1430	400	840	1.61
3	230	1900	433	2.77	1205	500	710	2.01
4	230	1960	355	2.28	925	570	545	2.29
5	230	1600	380	2.43	1420	241	835	0.97
6	230	1600	319	2.05	1245	304	730	1.22
7	230	1600	258	1.66	1015	356	595	1.43
8	230	1600	193	1.23	755	380	445	1.53
9	230	1300	204	1.31	1155	159	680	0.64
10	230	1300	171	1.10	1010	201	595	0.81
11	230	1300	139	0.89	825	235	485	0.94
12	230	1300	103	0.66	615	251	360	1.01
13	230	1000	93	0.59	885	94	520	0.38
14	230	1000	78	0.50	775	119	455	0.48
15	230	1000	63	0.40	635	139	375	0.56
16	230	1000	47	0.30	470	149	280	0.60

U = Supply voltage · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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