

EC centrifugal fan

forward-curved, single-intake
with housing (without flange)

G3G225-FD36-81 ebmpapst Datasheet

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Nominal data

Type	G3G225-FD36-81	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1500
Power consumption	W	350
Current draw	A	4.0
Min. back pressure	Pa	120
Min. back pressure	inH ₂ O	0.48
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



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Technical description

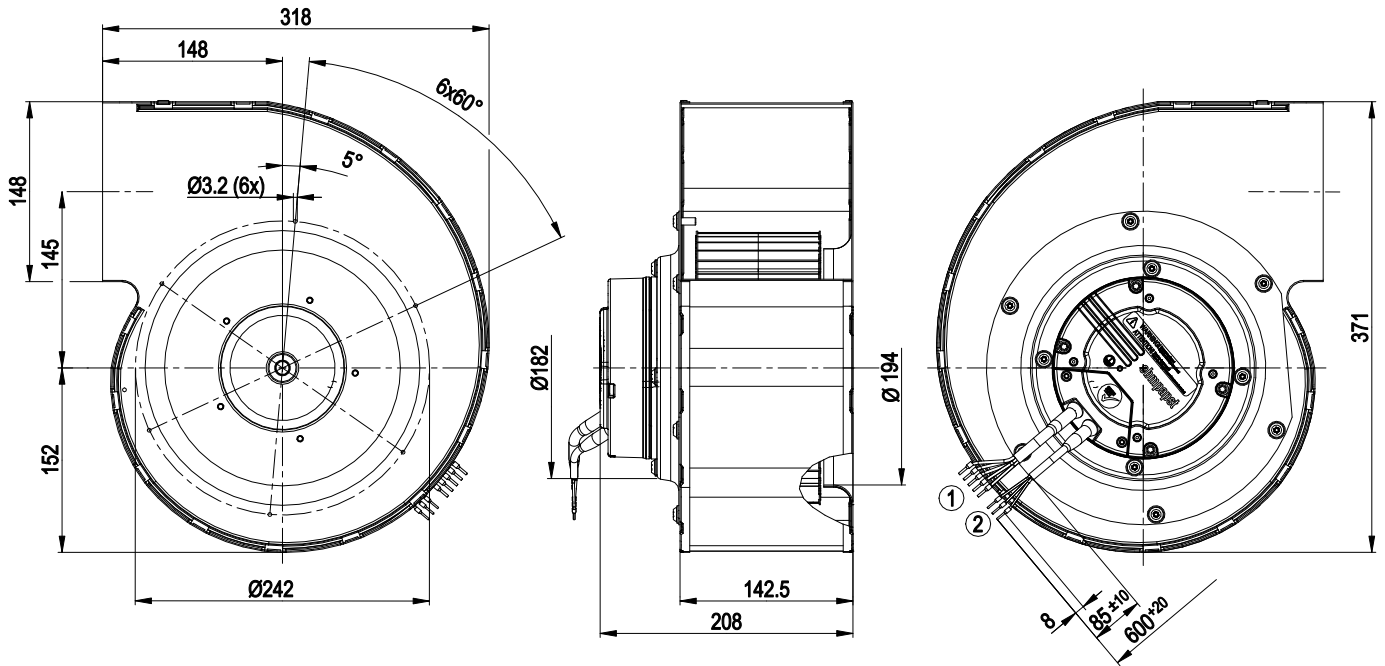
Weight	8.2 kg
Fan size	225 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for electronics/motor - Line undervoltage detection
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-4 (industrial environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	EAC; UL 2111; CSA C22.2 No. 77



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Product drawing



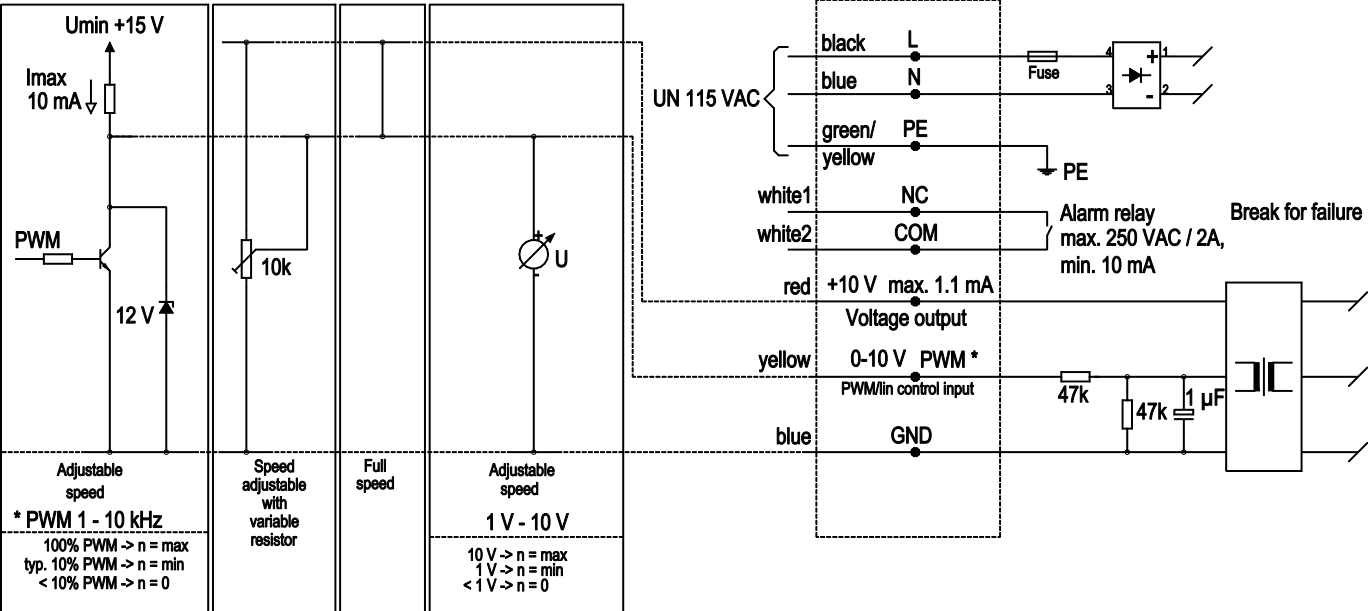
- | | |
|---|--------------------------------------|
| 1 | Cable PVC AWG18, 5x crimped ferrules |
| 2 | Cable PVC AWG22, 3x crimped ferrules |

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Connection diagram

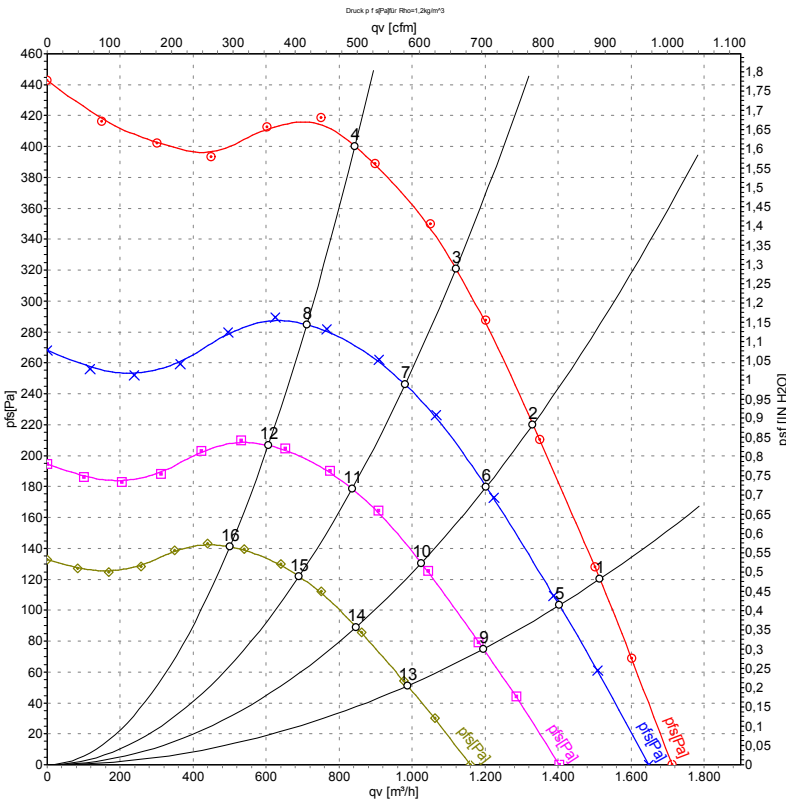
Customer circuit
Application notes for various control options



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Curves: Air performance 50 Hz



Measurement: LU-135826-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	CFM	inH ₂ O
1	115	50	1500	350	4.00	1515	120	890	0.48
2	115	50	1490	308	3.60	1330	220	785	0.88
3	115	50	1540	267	3.14	1120	320	660	1.28
4	115	50	1600	211	2.54	845	400	495	1.61
5	115	50	1350	278	3.22	1405	103	825	0.41
6	115	50	1350	228	2.67	1205	180	710	0.72
7	115	50	1350	180	2.12	980	246	575	0.99
8	115	50	1350	127	1.53	710	285	420	1.14
9	115	50	1150	172	1.99	1195	75	705	0.30
10	115	50	1150	141	1.65	1025	131	605	0.53
11	115	50	1150	111	1.31	835	178	490	0.71
12	115	50	1150	79	0.94	605	207	355	0.83
13	115	50	950	97	1.12	985	51	580	0.20
14	115	50	950	80	0.93	845	89	500	0.36
15	115	50	950	63	0.74	690	122	405	0.49
16	115	50	950	44	0.53	500	141	295	0.57

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

