G3G225-CD29-72

EC centrifugal fan

forward curved, single inlet

with housing (flange), for railway applications

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

Nominal data

Type	**G3G225-CD29-72**
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}	1815
Power input	W	545
Current draw	A	3.5
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

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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	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; CSA C22.2 no. 77

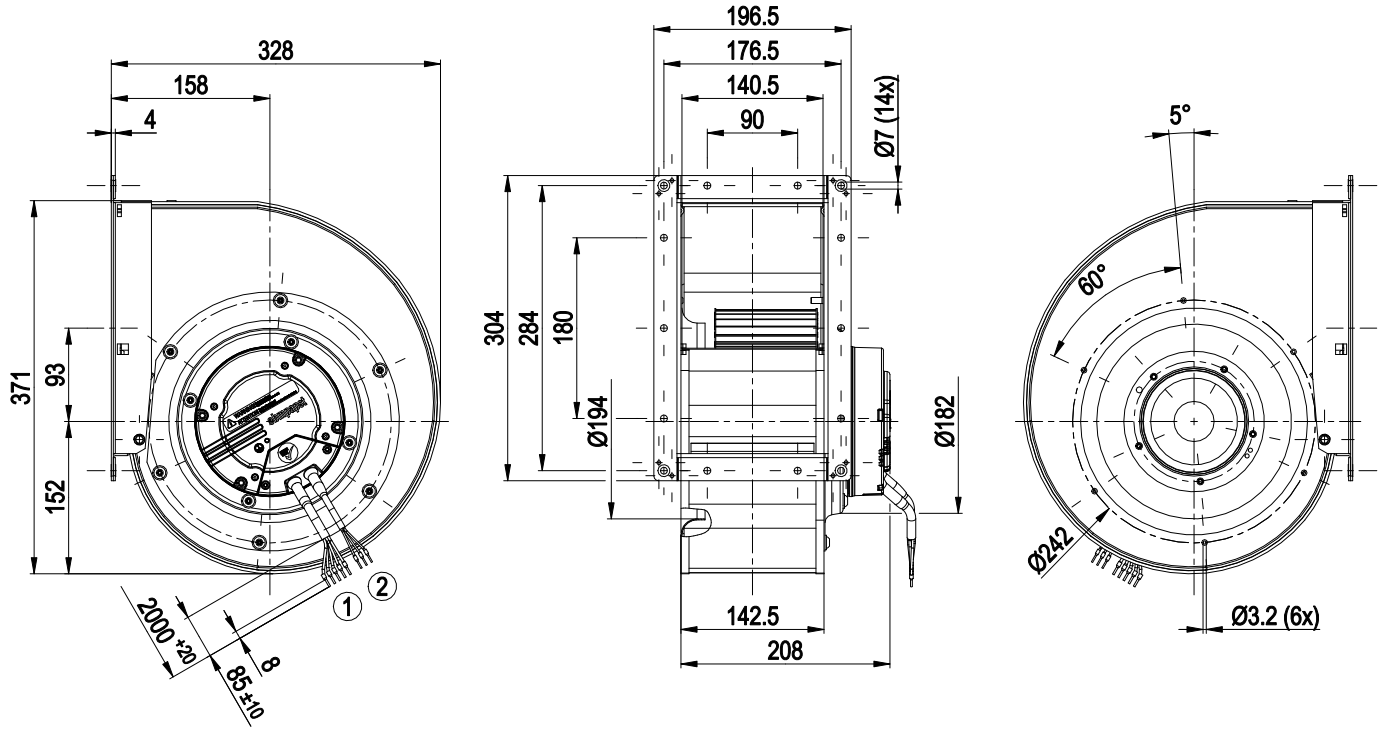
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Product drawing



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

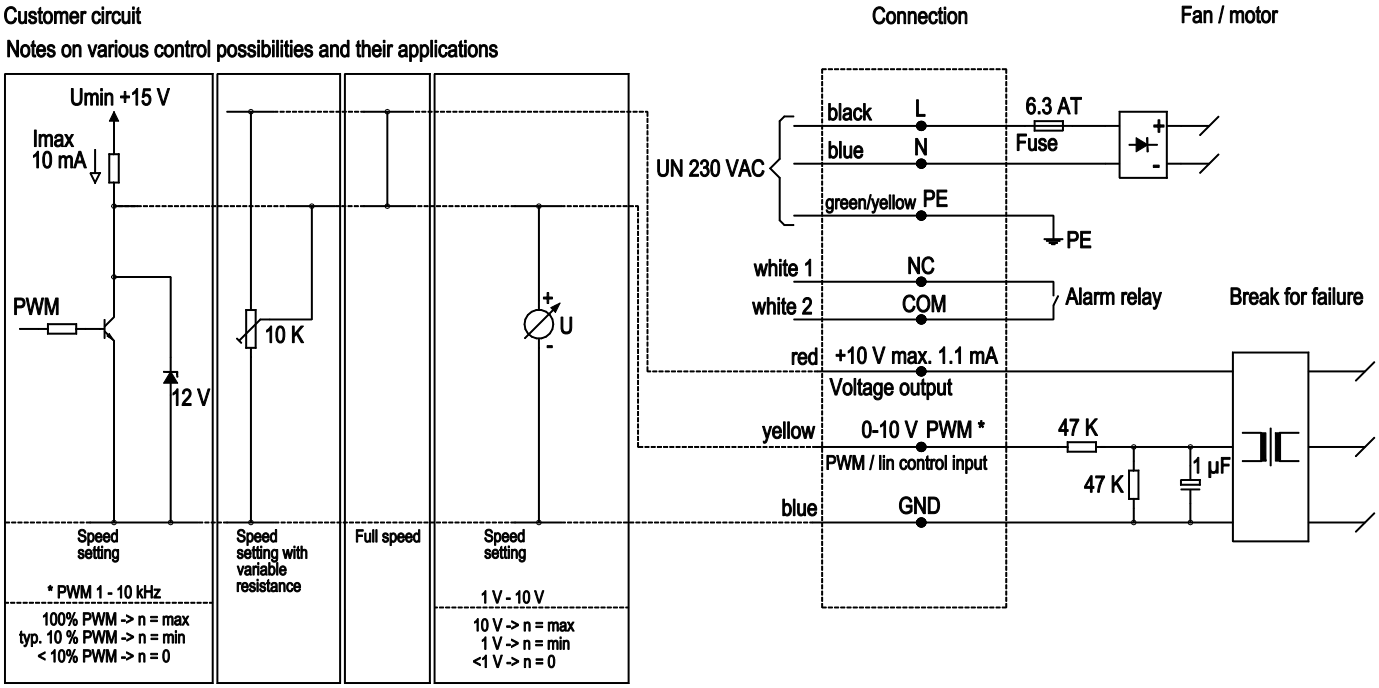
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Connection screen



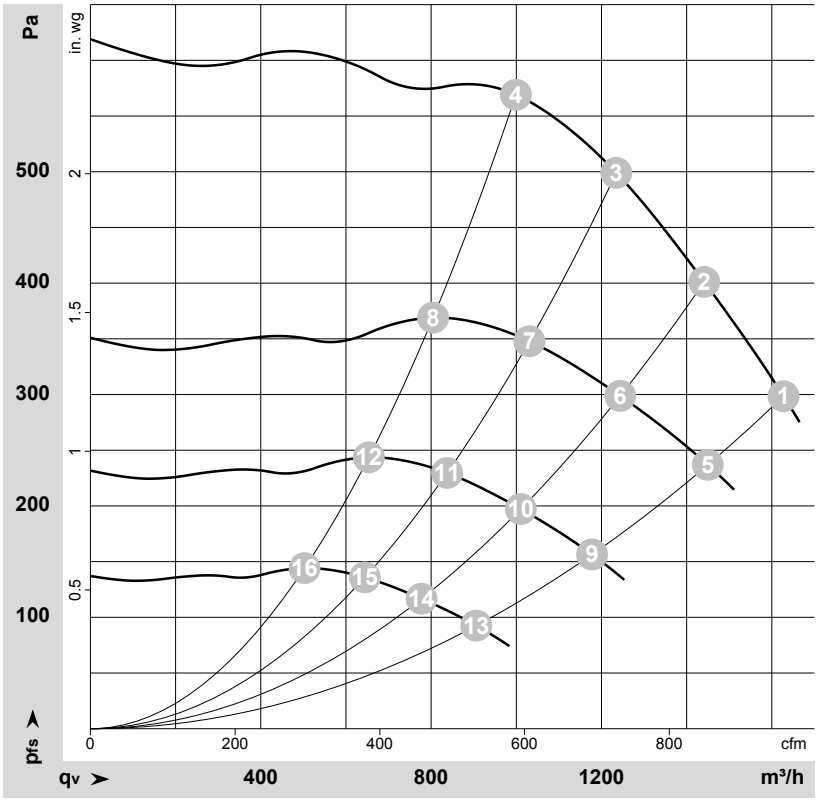
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-111997-1

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	1815	545	3.50	75	80	1625	300	960	1.20
2	230	50	1855	489	3.24	73	79	1440	400	850	1.61
3	230	50	1915	443	2.91	73	79	1235	500	725	2.01
4	230	50	1985	378	2.47	73	79	1000	570	590	2.29
5	230	50	1600	383	2.54	72	77	1450	239	855	0.96
6	230	50	1600	315	2.08	70	75	1245	300	730	1.20
7	230	50	1600	258	1.69	69	74	1030	351	605	1.41
8	230	50	1600	198	1.29	68	74	805	369	475	1.48
9	230	50	1300	205	1.36	66	72	1180	158	695	0.63
10	230	50	1300	169	1.12	64	70	1010	198	595	0.79
11	230	50	1300	138	0.91	63	69	840	231	495	0.93
12	230	50	1300	106	0.69	62	68	655	244	385	0.98
13	230	50	1000	93	0.62	60	65	905	93	535	0.37
14	230	50	1000	77	0.51	58	63	775	117	455	0.47
15	230	50	1000	63	0.41	57	62	645	137	380	0.55
16	230	50	1000	48	0.32	56	62	505	144	295	0.58

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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