D3G225-CC14-71

EC centrifugal fan

forward curved, dual inlet

with housing (large flange)



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Nominal data

Type	**D3G225-CC14-71**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1200
Power input	W	340
Current draw	A	2.2
Min. back pressure	Pa	150
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 according to ErP directive

		Actual	Request 2015
01 Overall efficiency η_{es}	%	48.9	33.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		59.3	44
05 Variable speed drive		Yes	

09 Power input P_{ed}	kW	0.23
09 Air flow q_v	m^3/h	1505
09 Pressure increase p_{fs}	Pa	244
10 Speed (rpm) n	min^{-1}	1255
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-113437

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Technical features

Mass	10.8 kg
Size	225 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Sheet steel, sendzimir 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	IP 54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC max. 1.1 mA - Alarm relay - Over-temperature protected motor
EMC interference immunity	Acc. to EN 61000-6-2
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3
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	C22.2 Nr.77 + CAN/CSA-E60730-1; UL1004-3 +60730; EAC

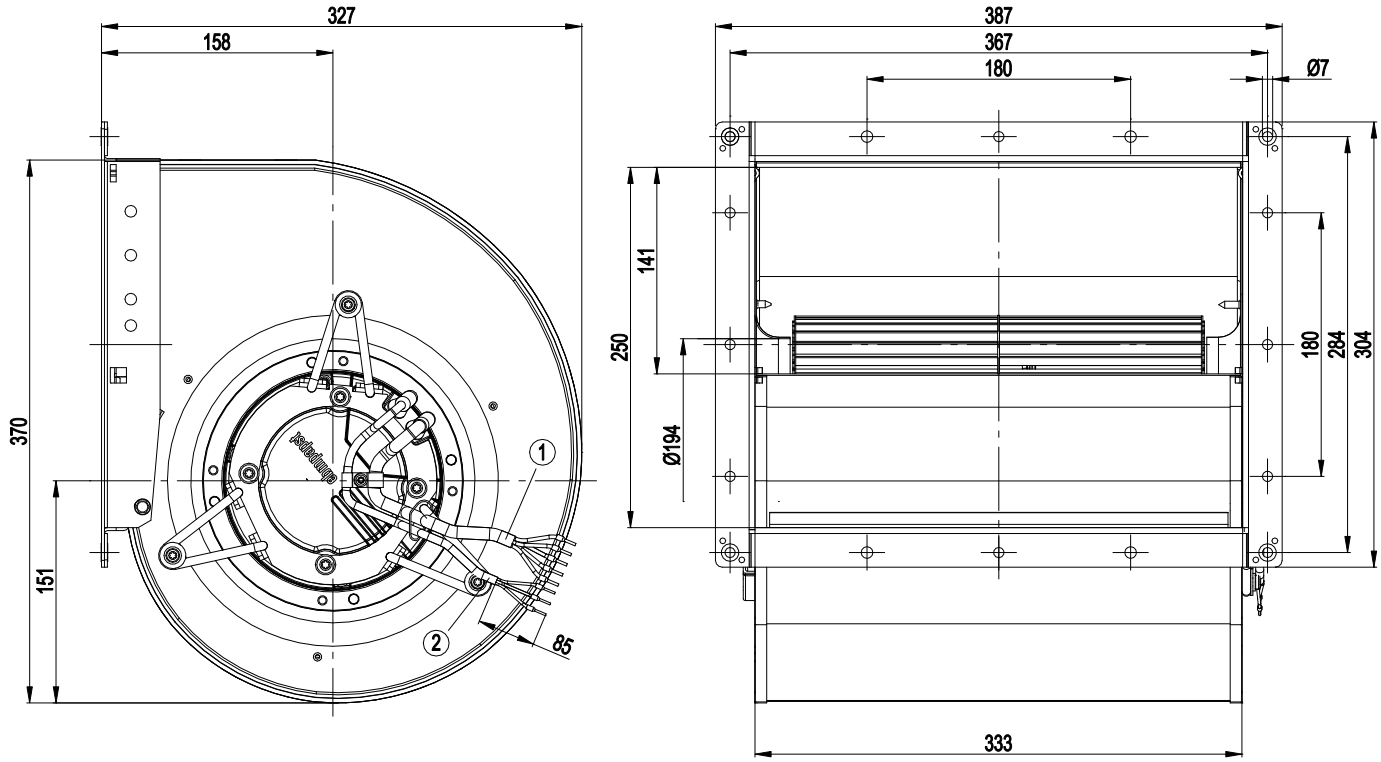
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Product drawing



Cable length from electronics enclosure: 800+20 mm

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

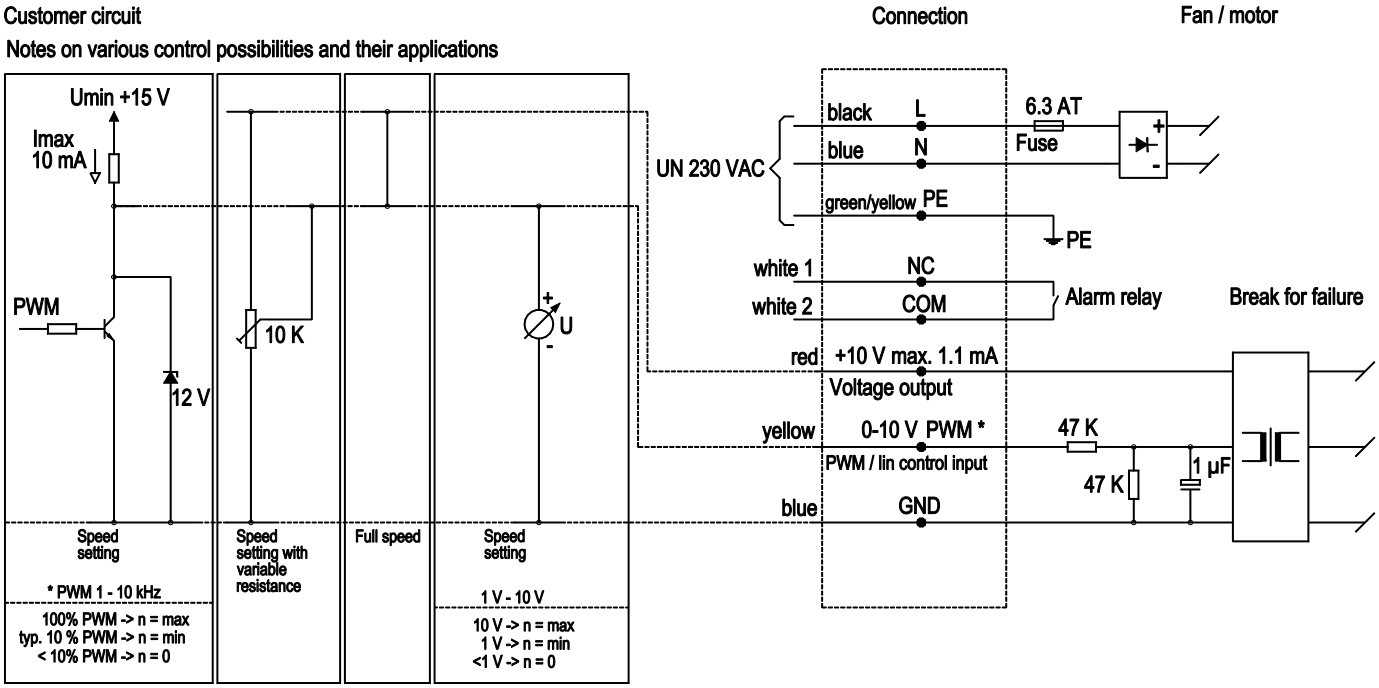
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Connection screen



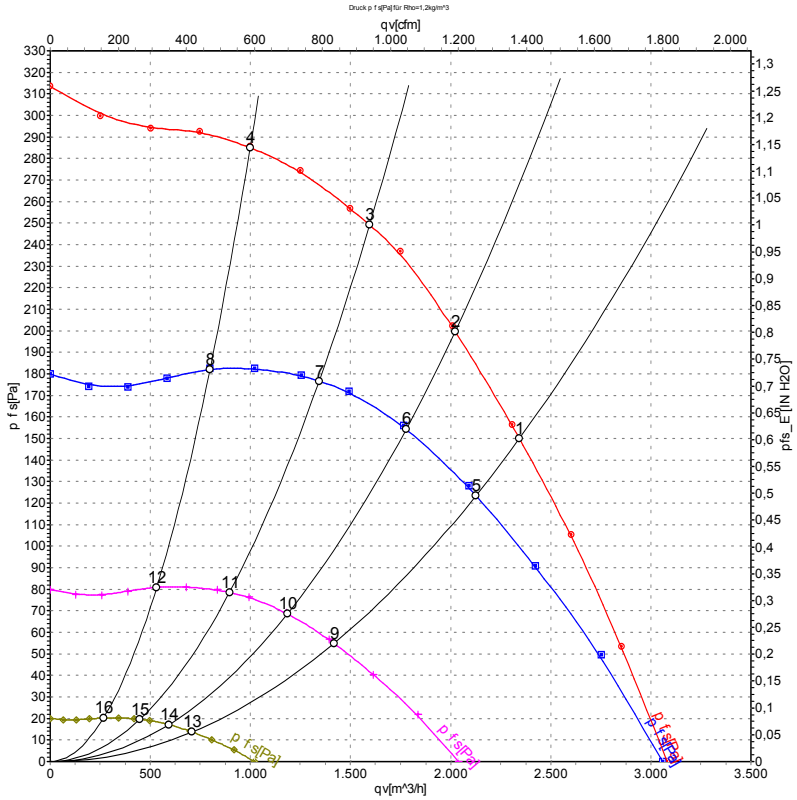
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Charts: Air flow 50 Hz



Measurement: LU-113437-1

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	inH2O
1	230	50	1160	340	2.20	66	74	2345	150	1380	0.60
2	230	50	1195	298	1.92	65	73	2020	200	1190	0.80
3	230	50	1245	247	1.60	63	72	1595	249	940	1.00
4	230	50	1315	181	1.19	62	71	1000	286	585	1.15
5	230	50	1050	254	1.63	64	72	2125	124	1250	0.50
6	230	50	1050	203	1.31	62	70	1775	155	1045	0.62
7	230	50	1050	148	0.96	59	68	1345	177	790	0.71
8	230	50	1050	92	0.61	57	66	800	183	470	0.73
9	230	50	700	75	0.48	55	63	1415	55	835	0.22
10	230	50	700	60	0.39	53	61	1185	69	695	0.28
11	230	50	700	44	0.28	50	59	895	78	525	0.31
12	230	50	700	27	0.18	49	57	530	81	315	0.33
13	230	50	350	9.4	0.06	40	48	710	14	415	0.06
14	230	50	350	7.5	0.05	38	46	590	17	350	0.07
15	230	50	350	5.5	0.03	35	44	450	20	265	0.08
16	230	50	350	3.4	0.02	33	42	265	20	155	0.08

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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